



PROTECT YOUR INVESTMENT



SACRIFICIAL ANODES

www.ampak.nl - info@ampak.nl

AMPAK CATHODIC PROTECTION is a family-owned company.

Since 1954, the company has been operating in the cathodic protection industry.

Our slogan is “Protect Your Investment.”

Corrosion accounts for around 4% of the total Gross Domestic Product (GDP) in wasted resources. That’s why investing in cathodic protection is crucial to protect your investment in vessels, harbor or port structures, lock gates, platforms, wind/ sea-farms at sea, and more.

AMPAK CATHODIC PROTECTION can help you in this battle against corrosion.

All our sacrificial anodes are sustainably produced in our factory in the Netherlands.

This ensures the highest product quality, with constant quality checks of material specifications performed in our lab using an OES Spectrograph and regular durability tests.

In addition to producing sacrificial anodes, we can calculate and design a protection plan for your structure.

At **AMPAK CATHODIC PROTECTION**, we design, calculate, produce, and sell cathodic protection systems.

Besides our sacrificial anodes, we also offer ICCP (Impressed Current Cathodic Protection) systems and ICAF (Impressed Current Anti-Fouling) systems, also known as MGPS (Marine Growth Prevention System).



ICCP systems comprise anodes, a controller power unit, and reference electrodes. The system protects a wide range of metallic structures by constantly monitoring system integrity and proactively adjusting the output based on environmental factors, ensuring optimal protection against corrosion.

ICAF or MGPS systems address the issue of biological fouling, such as marine growth, microorganisms, algae, or plants, which can threaten your system’s water flow.

This system solves this problem by actively biological fouling through the introduction of copper ions into the system.

Please note that ICAF/MGPS systems are designed to deal with marine growth only, and we always advise using traditional cathodic protection to protect your seachests, box coolers, or water pumps from corrosion.

AMPAK CATHODIC PROTECTION is your trusted partner in corrosion prevention, offering not only high-quality products but also expert guidance in protecting your assets. From design and production to installation and maintenance, we deliver comprehensive solutions that keep your infrastructure secure and operational. Partner with us to preserve the integrity and longevity of your investments, ensuring they remain resilient against the relentless forces of nature.



CONTENTS:	Page:
Alloy specification of standard sacrificial anodes	2-3
Zinc vs Aluminium anodes	4
Anode recommendations	5
Tank anodes fixings	6
WELD-ON HULL ANODES	
Aluminium weld-on hull anodes	9 - 48
Zinc weld-on hull anodes	51 - 90
HULL M ANODES	
Aluminium hull M anodes	93 - 102
Zinc hull M anodes	105 - 114
BOLT-ON HULL ANODES	
Aluminium bolt-on hull anodes	117 - 138
Zinc bolt-on hull anodes	141 - 162
BOLT-ON DISC ANODES	
Aluminium bolt-on disc anodes	165 - 176
Zinc bolt-on disc anodes	179 - 190
TANK ANODES	
Aluminium tank anodes	193 - 200
Zinc tank anodes	203 - 210
PITGUARD ANODES	
Aluminium pitguard anodes	213 - 218
Zinc pitguard anodes	221 - 226
DIVERSE ANODES AND APPLICATIONS	
Zinc and Aluminium rod anodes	229
Zinc and Aluminium shaft anodes	229
Zinc pencil and brass plugs	229
Backing sheets	229
Stud assemblies	230
Antifouling anodes	231
Magnesium anodes	232

Zinc, Aluminium & Magnesium alloyed anodes

Aluminium Alloy No. 2

This alloy tested by D.N.V. has proved to be a reliable and economic aluminium anode material for use in seawater.

Analysis

Si	: 0,05 max
Fe	: 0,09 max
Zn	: 2,50 – 5,0 alloying element
Ti	: 0,01 – 0,05 alloying element
In	: 0,015 – 0,04 alloying element
Cu	: 0,002 max
Others	: 0,02 max
Al	: Remainder (99,85 % purity)

Performance data – seawater

Capacity	: 2700 Ampere hours/kg
Potential	: -1,1 Volt against Ag/AG Cl reference
Efficiency	: 95%

Zinc Alloy acc. US Mil Spec. A-18001K

This alloy tested by D.N.V. has proved to be a reliable and economic zinc anode material for use in seawater.

Analysis

Cu	: 0,005 max
Fe	: 0,005 max
Al	: 0,10 – 0,50 Cd : 0,025 – 0,07 Pb : 0,006 max
Others	: 0,10 max (total)
Zn	: Remainder (99,995% purity)

Performance data - seawater

Capacity	: 780 Ampere hours/kg
Potential	: -1,05 Volt against Ag/Ag Cl reference
Efficiency	: 95%

Magnesium Alloy AZ 63

This alloy tested by D.N.V. has proved to be a reliable and economic magnesium anode material for use in freshwater.

Analysis

Cu	: 0,05 max
Al	: 5,3 – 6,7
Si	: 0,3 max
Fe	: 0,005 max
Mn	: 0,25 min
Ni	: 0,003 max
Zn	: 2,5 – 3,5
Others	: 0,03 max
Mg	: Remainder

Performance data – freshwater

Capacity	: 1230 Ampere hours/kg
Potential	: -1,50 Volt against Cu/CuSO ₄
Efficiency	: 50%

Choosing between Aluminium and Zinc alloy

Aluminium and Zinc are both viable options for use in seawater, but AMPAK[®] recommends the use of Aluminium over Zinc for several compelling reasons:

Sustainability

Aluminium anodes have a significantly lower environmental impact compared to Zinc anodes, making them a more environmentally friendly choice. They are also less harmful to marine life, aligning with sustainable practices.

Driving Voltage

Aluminium anodes have a higher driving voltage than Zinc anodes, ensuring a more efficient and better distribution of protective current. This results in enhanced protection for submerged objects.

Capacity and Weight

Aluminium possesses an electrochemical capacity that is over three times higher than that of Zinc. Consequently, less weight of Aluminium is required to provide the same level of protection, making it a lightweight yet highly effective solution.

Cost-Effectiveness

Aluminium anodes prove to be more economical than Zinc anodes. Since less weight of Aluminium is needed for equivalent protection, the overall cost is reduced, making it a cost-effective choice for marine applications.

ANODE ALLOY RECOMMENDATIONS

Aluminium anodes

Salt water	Brackish water	Fresh water
Zinc anodes / Aluminium anodes	Aluminium anodes	Magnesium anodes



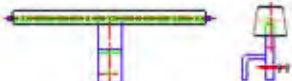
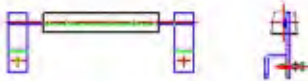

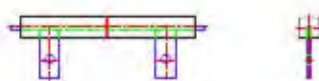

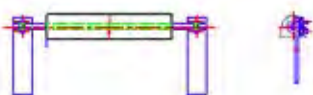
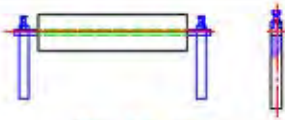
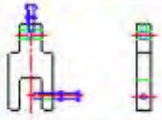
Zinc anodes

Salt water	Brackish water	Fresh water
Zinc anodes / Aluminium anodes	Aluminium anodes	Magnesium anodes

Magnesium anodes

Salt water	Brackish water	Fresh water
Zinc anodes / Aluminium anodes	Aluminium anodes	Magnesium anodes

AMPAK standard fittings, on request special fittings can be designed where necessary.

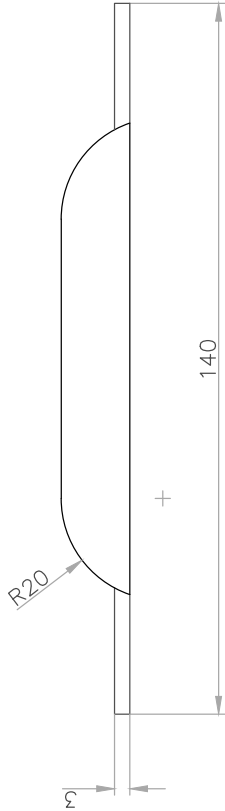
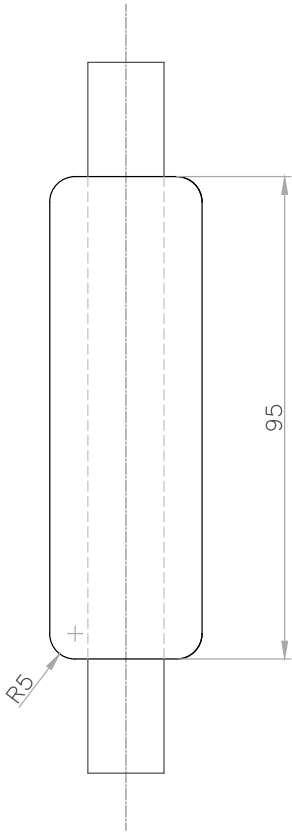
 <p><i>Straight Core</i></p>	 <p><i>Inside Double Cranked</i></p>
 <p><i>"C" Clamp</i></p>	 <p><i>"E" Clamp</i></p>
 <p><i>Pitguard Clamp</i></p>	 <p><i>"S" Clamp</i></p>
 <p><i>Stand-off Brackets, Welded Fixing</i></p>	 <p><i>Stand-off Brackets, U-bolt Fixing</i></p>
 <p><i>Bar Clamp</i></p>	 <p><i>"M" Type Clamp</i></p>

ALUMINIUM WELD-ON HULL ANODES

The next pages gives only a selection of types we have available.
The length of the inserts can vary on your request, as long as they are longer than the casted anode body.

For contact scan QR-code





ALUMINIUM ANODE:

nett weight 0,167 kg
gross weight 0,2 kg

Aluminium alloy specification	Percentages (%)
Silicon	0,10 - 0,15
Iron	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
2700 Ah/Kg nominal
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

drawn:
date:

scale: n. t. s.
Art. No.: 922501000 | Weight: + / - 3%
Dwg. No.: S 9448 | Ben. Tol.: NACE SP0387
Drm.: A - 4

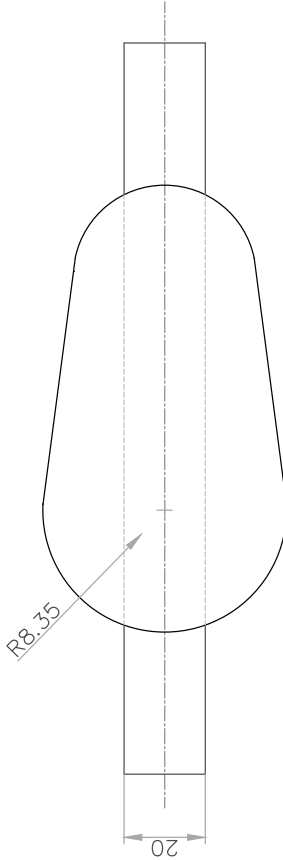
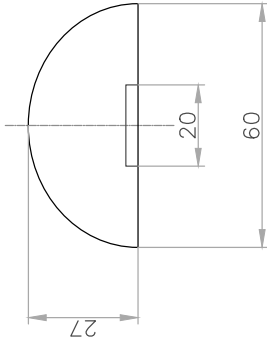
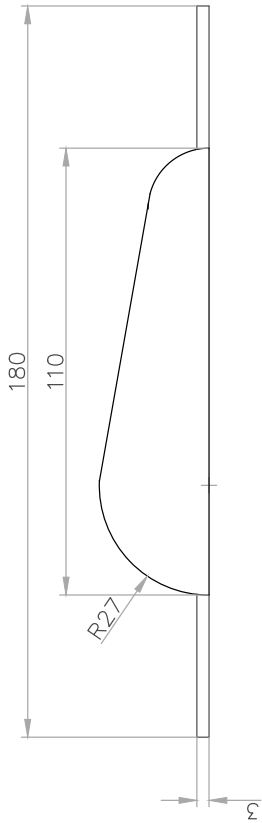
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Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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ANODE TYPE 1.67-AL

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ALUMINIUM ANODE:

nett weight 0,25 kg

gross weight 0,30 kg

Aluminium alloy specification	Percentages (%)
Silicon	0,10 - 0,15
Iron	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	99,95 min (99,95% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
2700 Ah/Kg nominal
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

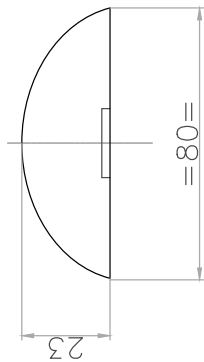
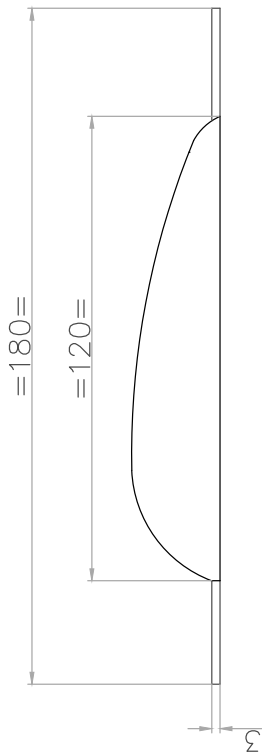
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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:922520000	Weight: +/− 3%
drawn:	Dwg. No.:S 5682	Ben. Tol.: NACE SP0387
date:	Drm.:A-4	ANODE TYPE 2,5-AL

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ALUMINIUM ANODE:

nett weight 0,4 kg
gross weight 0,5 kg

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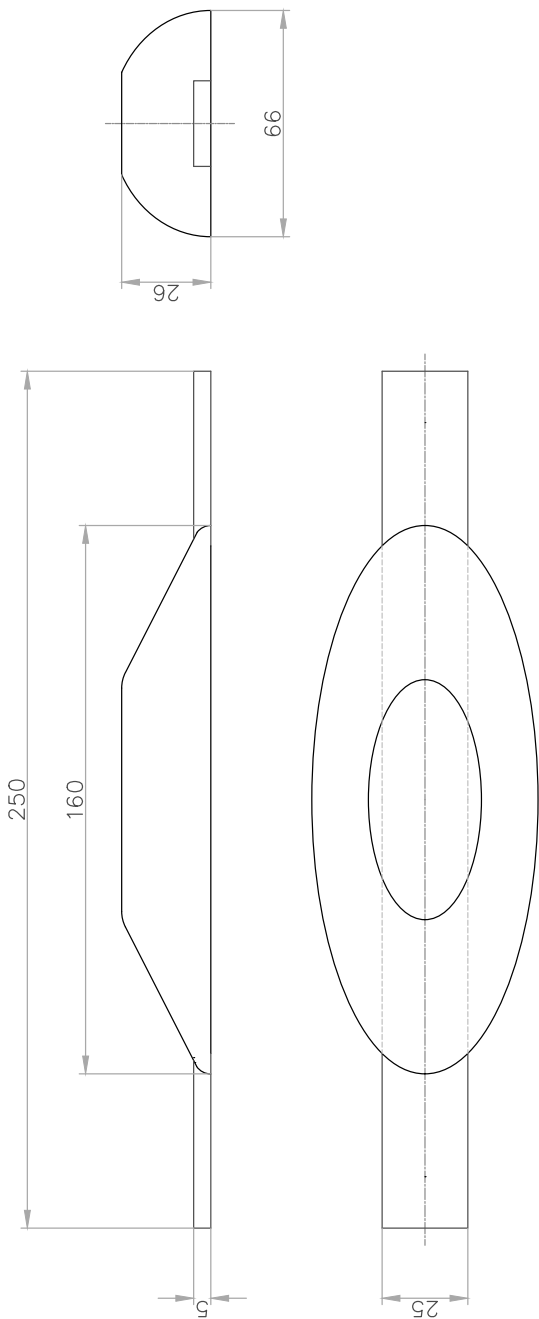
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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922483000	Weight: +/− 3%
drawn:	Dwg. No.: S 4450	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	Copyright Ampak [®] . No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

ANODE TYPE 4-AL



ALUMINIUM ANODE:
 nett weight 0,5 kg
 gross weight 0,7 kg

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

2700 Al/Hg potential
 -1100 mV vs. Ag/AgCl reference cell/normal (in seawater)

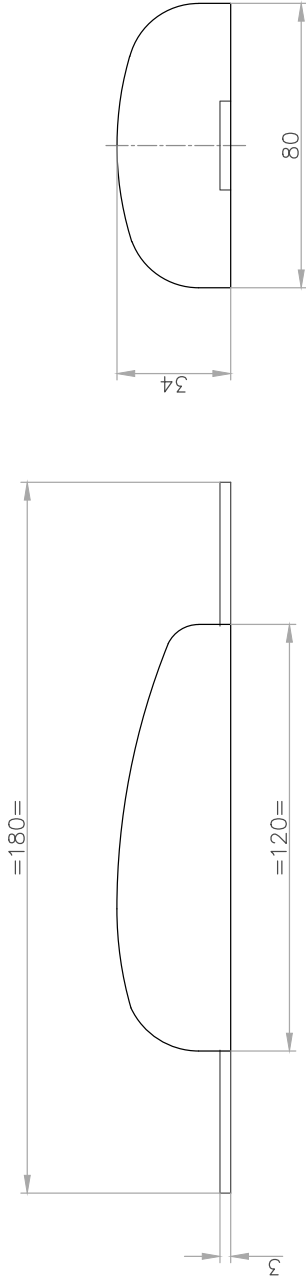
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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t. s.	Art. No.: 926012000	Weight: +/− 3%
drawn:	Dwg. No.: S 10281	Ben. Tol.: NACE SP0387
date:	Dim.: A-4	ANODE TYPE 5-AL-H

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ALUMINIUM ANODE:

nett weight 0,6 kg
gross weight 0,7 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max

Electrochemical capacity:
 Solution potential: 2700 mV (vs. Ag/AgCl) reference cell nominal (in seawater)
 -1100 mV (vs. Ag/AgCl) reference cell nominal

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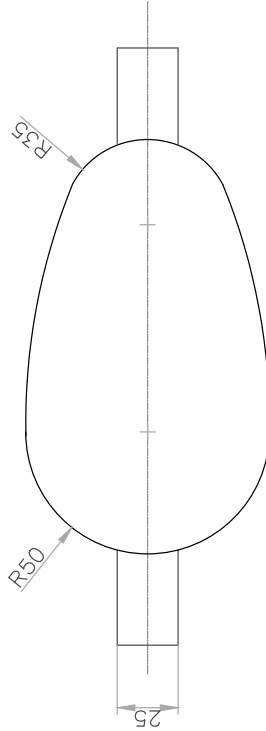
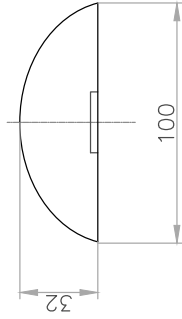
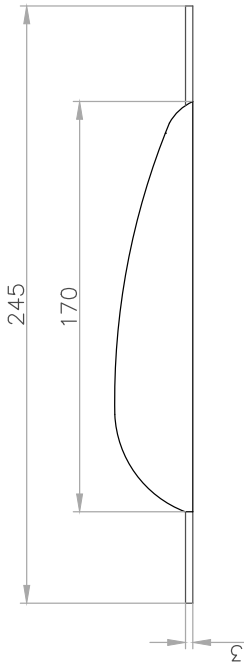
Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s. Art. No.: 1922541000 Weight: + / - 3%
 drawn: Dwg. No.: S 7750 Ben. Tol.: NACE SP0387
 date: Dfm.: A-4

ANODE TYPE 6-AL

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ALUMINIUM ANODE:

nett weight 0,8 kg
gross weight 1,0 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	99,95 min (99,95% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
2700 Ah/Kg nominal
-1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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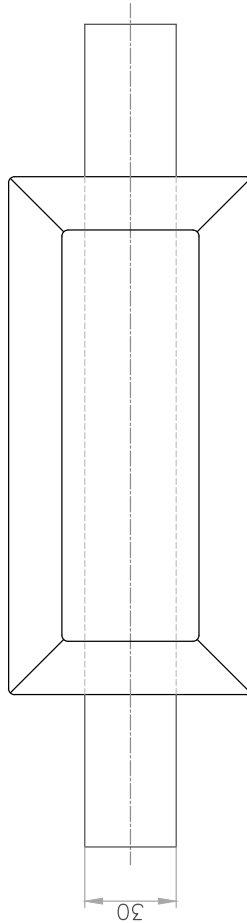
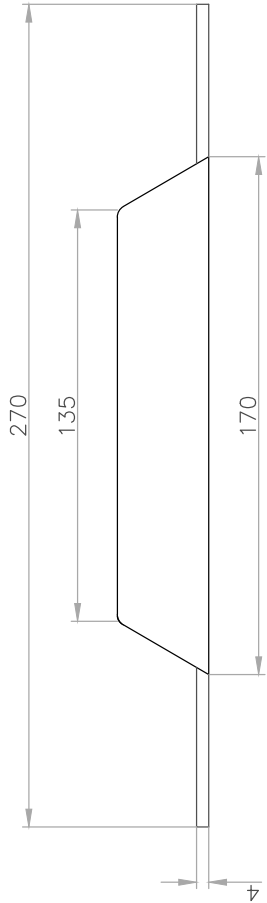
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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922517000	Weight: +/− 3%
drawn:	Dwg. No.:S 7691	Ben. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE 8-AL

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ALUMINIUM ANODE:
 nett weight 0,8 kg
 gross weight 1,1 kg

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

Copper
 Iron
 Others each

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

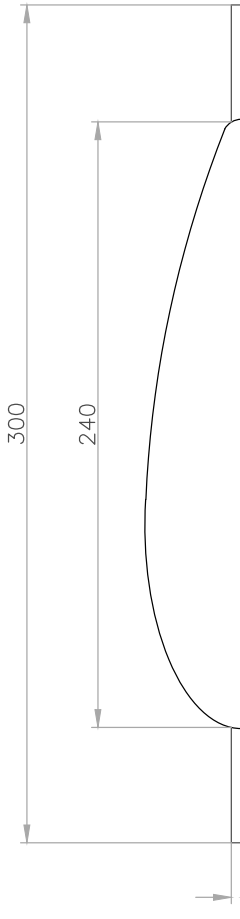
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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:922539000	Weight: +/− 3%
drawn:	Dwg. No.:S 7579	Ben. Tol.: NACE SP0387
date:	Dim.:A-4	
ANODE TYPE 8-AL-H		

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ALUMINIUM ANODE:
 nett weight 1,0 kg
 gross weight 1,2 kg

Aluminum alloy specification	Percentages (%)
Aluminum	99,95
Zinc	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminum	99,95% Purity
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

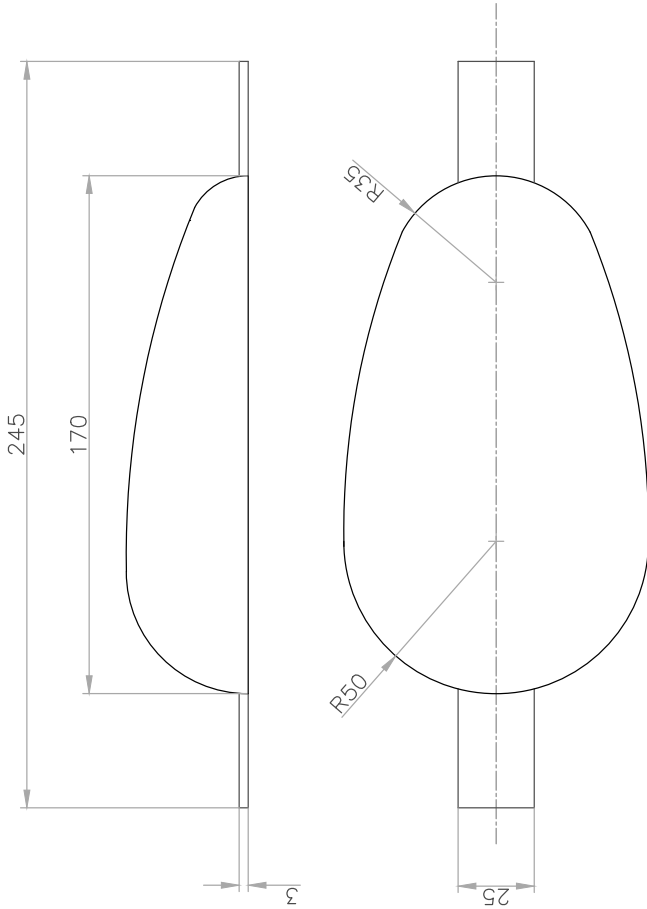
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:922522000	Weight: +/− 3%
drawn:	Dwg. No.:S 5683	Gen. Tol.: MACE SP0387
date:	Dim.: A - 4	ANODE TYPE 10-AL

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ALUMINIUM ANODE:

nett weight 1,1 kg
gross weight 1,3 kg

Aluminium alloy specification	Percentages (%)
Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	99,95 min (99,95% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
2700 Ah/Kg nominal
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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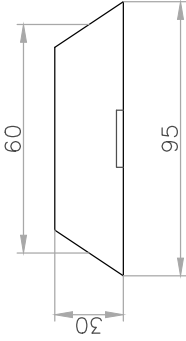
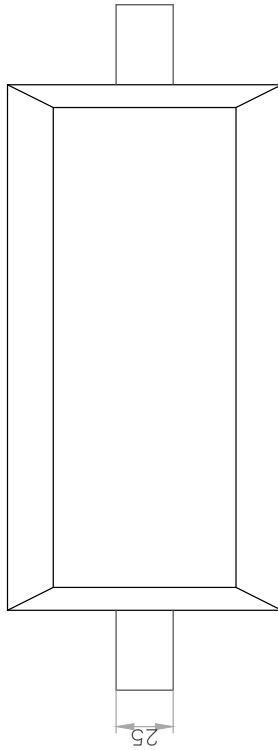
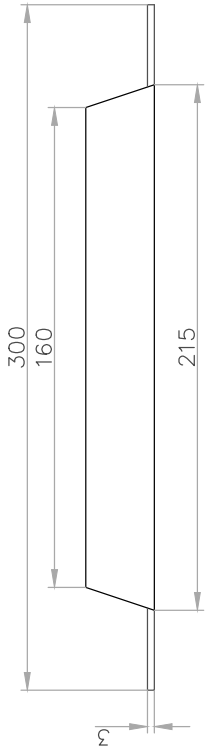
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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 322484000	Weight: +/- 3%
drawn:	Dwg. No.: S 4451	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	ANODE TYPE 11-AL

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ALUMINIUM ANODE:

nett weight 1,2 kg
gross weight 1,5 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Zinc 0,01 - 0,05
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

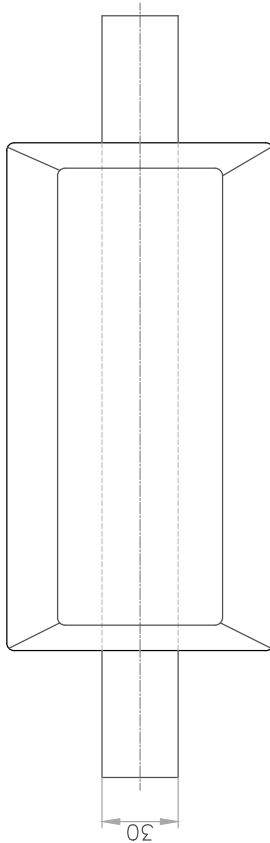
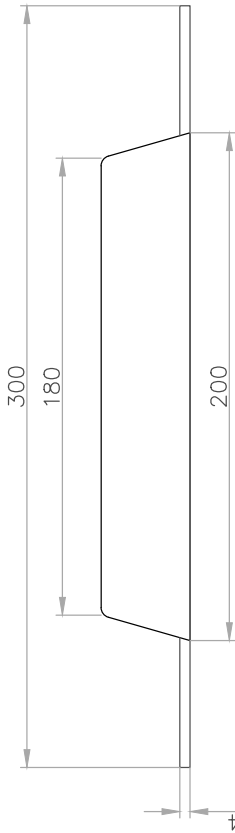
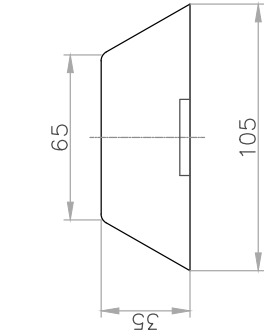
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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n.t.s. Art. No.: 926955000 Weight: +/− 3%
 drawn: F.J. te Beest Dwg. No.: S 11030 Ben. Tol.: NACE SP0387
 date: 25-09-2018 Dim.: A-4 Copyright Ampak® No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

ANODE TYPE 12-AL-H



ALUMINIUM ANODE:

nett weight 1,5 kg
gross weight 1,8 kg

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All date is subject to change without prior notice
 Anode can also be provided with a coated backside

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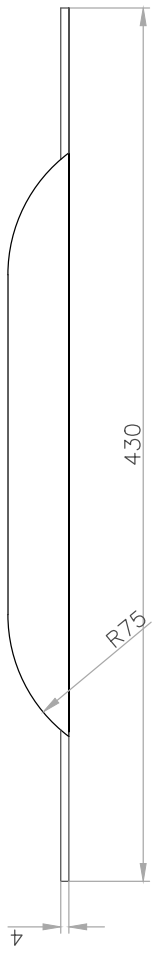
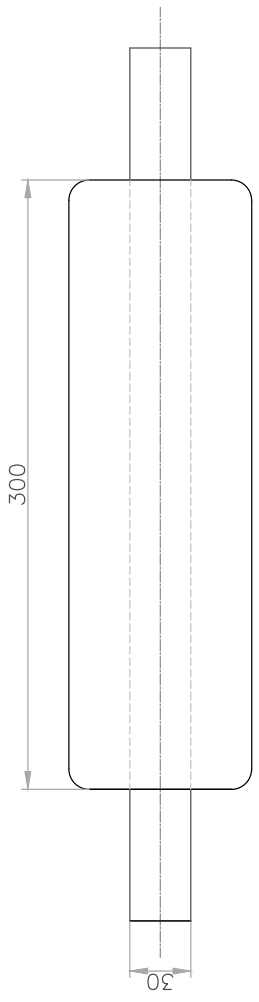
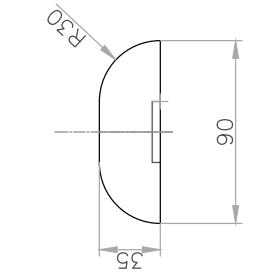
scale:n. t.s.
 drawn:
 date:

Art. No.:322504000
 Dwg. No.:S 7581
 Dim.:A-4

Weight: +/- 3%
 Gen. Tol.: MACE SP0387

ANODE TYPE 15-AL-H

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ALUMINIUM ANODE:
 nett weight 1,7 kg
 gross weight 2,1 kg

Aluminum alloy specification	Percentages (%)
Silicon	0,10 - 0,15
Iron	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminum	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

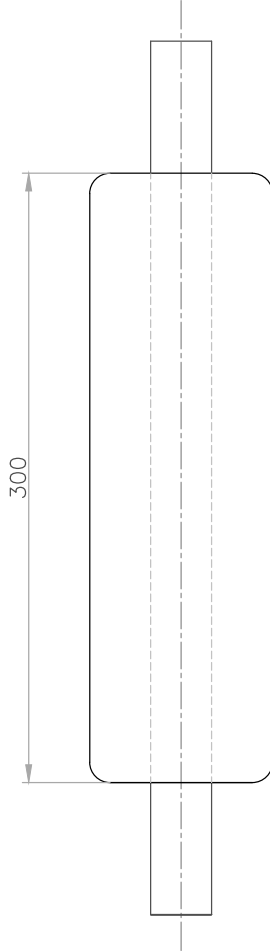
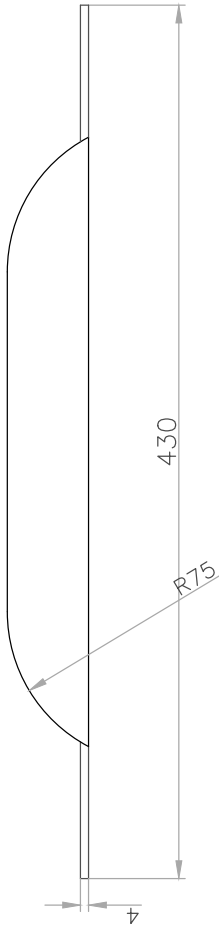
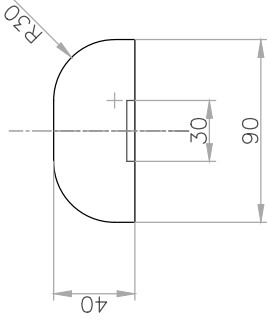
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
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 Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 922523000	Weight: +/- 3%
drawn:	Dwg. No.: S 7748	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

ANODE TYPE 17-AL



ALUMINIUM ANODE:
 nett weight 2,0 kg
 gross weight 2,4 kg

Aluminium alloy specification	Percentages (%)
Zinc	0,10 - 0,15
Magnesium	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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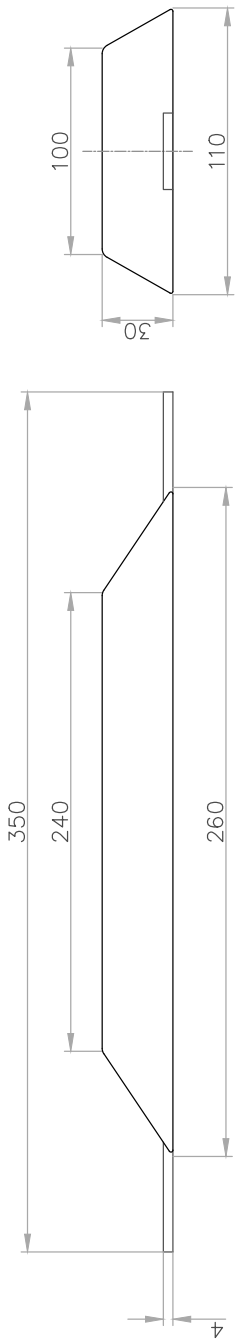
Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE 20-AL

Art. No.: 922485000	Weight: +/- 3%
Dwg. No.: S 4452	Gen. Tol.: NACE SP0387
Dim.: A - 4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

scale: n. t. s.
 drawn:
 date:



ALUMINIUM ANODE:

nett weight 2,1 kg
gross weight 2,5 kg

Aluminium alloy specification	Percentages (%)
Si	0,10 - 0,15
Mg	2,0 - 5,0
Zn	0,01 - 0,05
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	99,85% Min (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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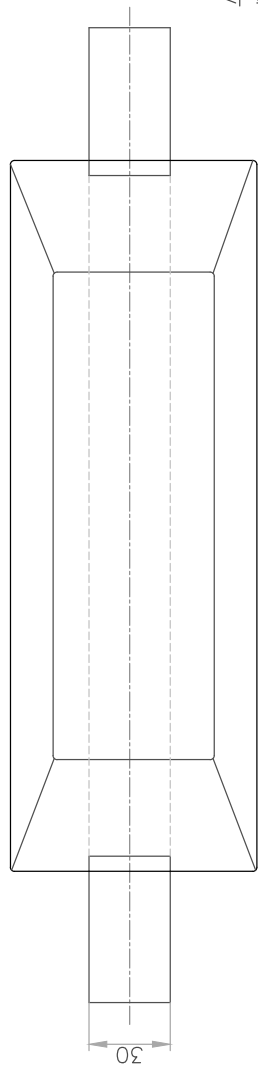
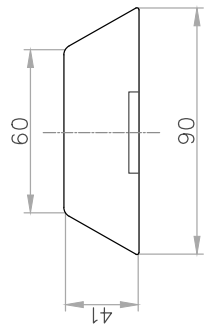
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inf@ampak.de

Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:	Weight: +/− 3%
drawn:F.J. te Beest	Dwg. No.:S 11231	Ben. Tol.: NACE SP0387
date:19-11-2020	Dim.:A-4	ANODE TYPE 21-AL

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440
290
320



ALUMINIUM ANODE:
 nett weight 2,2 kg
 gross weight 2,7 kg

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

Copper
 Iron
 Others each

2700 Al/Hg potential
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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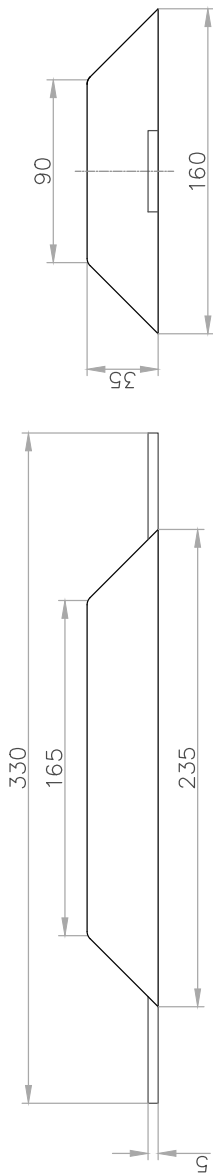
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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:926241001	Weight: +/- 3%
drawn:	Dwg. No.:S 11066	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE 22-AL

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ALUMINIUM ANODE:

nett weight 2,3 kg
gross weight 2,8 kg

Aluminium alloy specification	Percentages (%)
Silicon	0,10 - 0,15
Iron	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
-1100 mV vs. Ag/AgCl reference cell/normal (in seawater)

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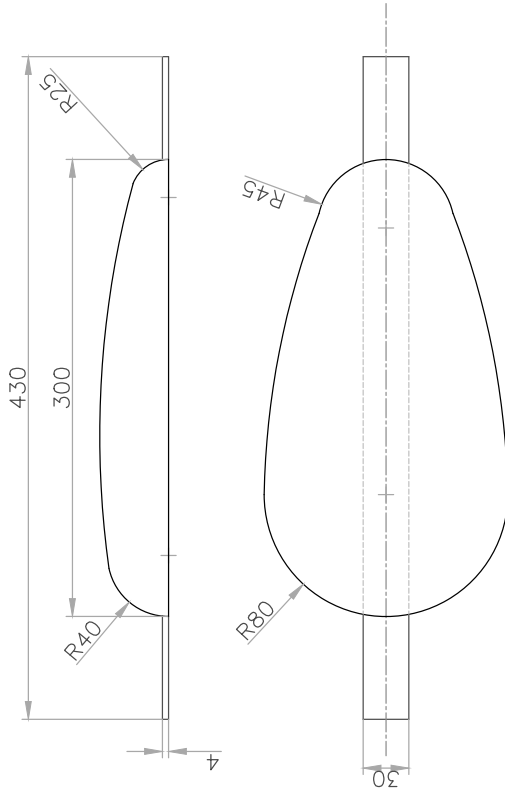
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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922525000	Weight: +/− 3%
drawn:	Dwg. No.:S 7583	ben. Tol.: NACE SP0387
date:	Drm.:A-4	ANODE TYPE 23-AL-H

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ALUMINIUM ANODE:

nett weight 2,8 kg
gross weight 3,2 kg

Aluminium alloy specification
 Components Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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Other specifications are available on request

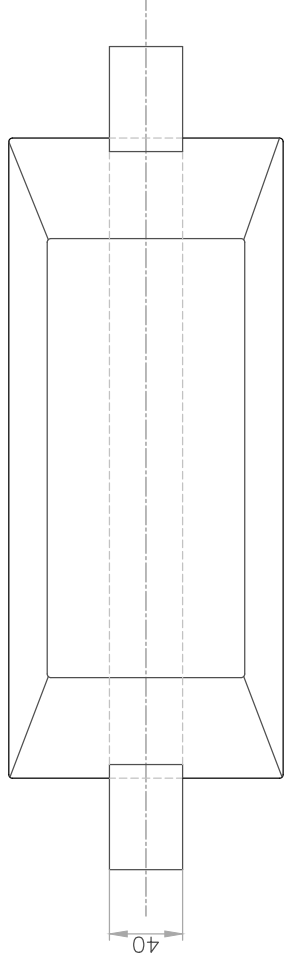
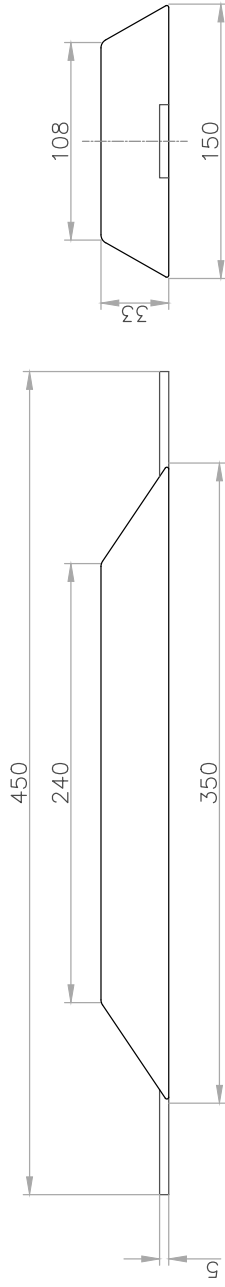
Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s.
 drawn:
 date:

Art. No.: 3922503000 Weight: + / - 3%
 Dwg. No.: S 5684 Gen. Tol.: NACE SP0387

ANODE TYPE 28-AL

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ALUMINIUM ANODE:
 nett weight 3,1kg
 gross weight 3,6kg

Aluminium alloy specification	Percentages (%)
Silicon	0,10 - 0,15
Iron	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Indium	0,02 Max
Aluminium	99,85% Purity
Copper	0,10 - 0,15
Iron	0,02 Max
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Self-corrosion potential:	-1100 mV vs. Ag/AgCl; reference cell nominal (in seawater)

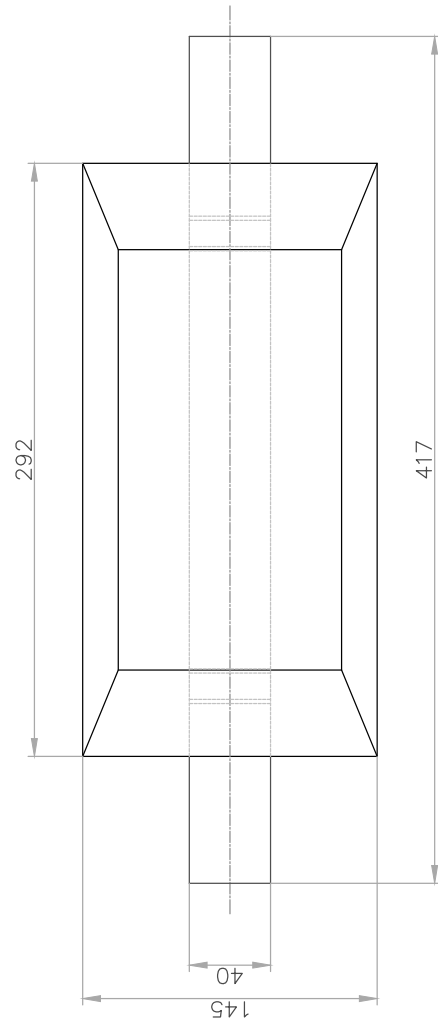
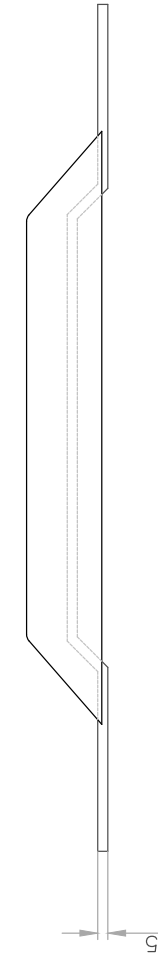
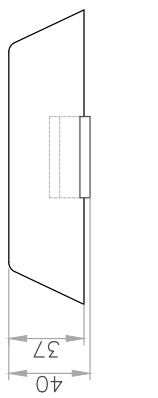
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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.:	Weight: +/− 3%
drawn:	Dwg. No.: S11245	Ben. Tol.: NACE SP0387
date:	Dim.: A-4	ANODE TYPE 31-AL-H

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ALUMINIUM ANODE:
 nett weight 3,5 kg
 gross weight 4,0 kg

Aluminum alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminum	Balance (99,95% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

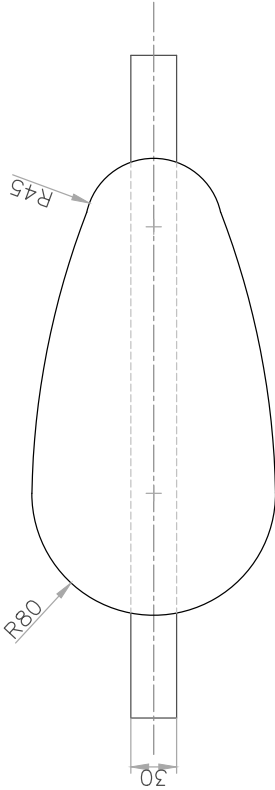
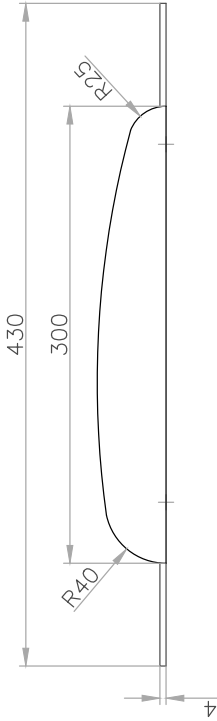
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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 929039000	Weight: + / - 3%
drawn:	Dwg. No.: S 11068	ben. Tol.: NACE SP0387
date:	Dim.: A - 4	ANODE TYPE 35-AL

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ALUMINIUM ANODE:

nett weight 3,7 kg
gross weight 4,1 kg

Aluminium alloy specification
 Components: Inbrunites
 Silicon
 Zinc
 Titanium
 Indium
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05

Order (99,95% Purity)
 0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2650 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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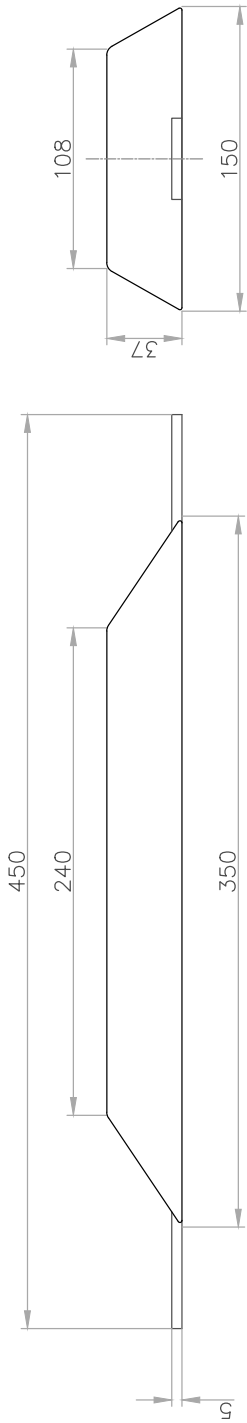
Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE 37-AL

scale: n.t.s.	Art. No.: 922486000	Weight: +/- 3%
drawn:	Dwg. No.: S 4453	Ben. Tol.: NACE SP0387
date:	Dim.: A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

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ALUMINIUM ANODE:
 nett weight 3,7 kg
 gross weight 4,2 kg

Aluminium alloy specification
 Components: Inbrunites
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium

Copper
 Iron
 Others each

Electrochemical capacity:
 Solution potential:

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

Alloy: 99,95% Purity

2700 Al/Hg potential
 -1050 mV vs. Ag/AgCl reference cell/normal (in seawater)

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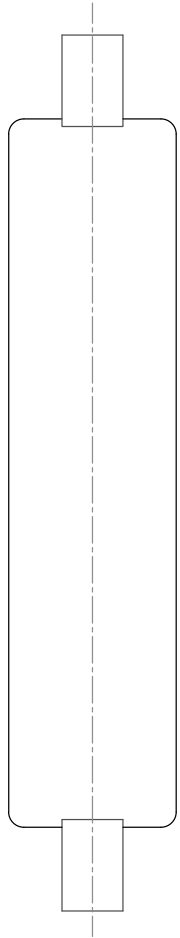
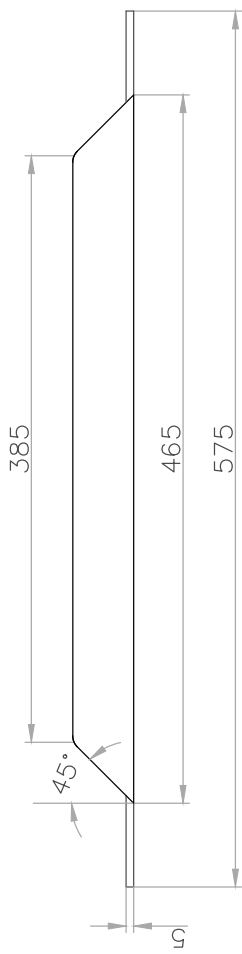
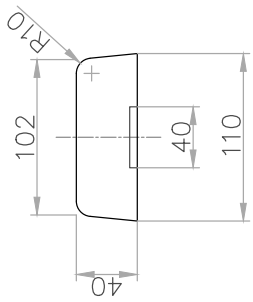
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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n.l.s.	Art. No.: 322524000	Weight: + / - 3%
drawn:	Dwg. No.: S 7577	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	

ANODE TYPE 37-AL-H

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ALUMINIUM ANODE:

nett weight 4,5 kg
gross weight 5,0 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	99,85 min (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

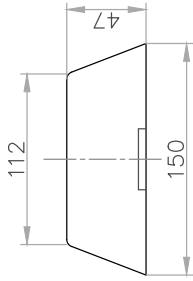
Percentages (%)	Art. No.: 922487000	Weight: +/- 3%
2700 Al/Hg potential	Dwg. No.: S 5359	Ben.: NACE SP0387
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)	Dim.: A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

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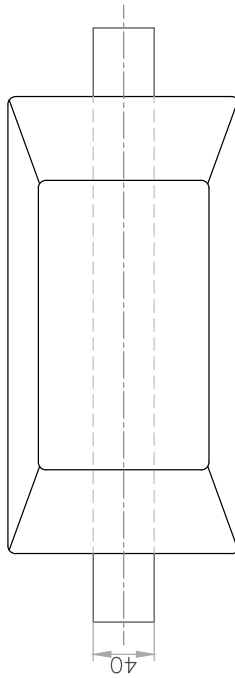
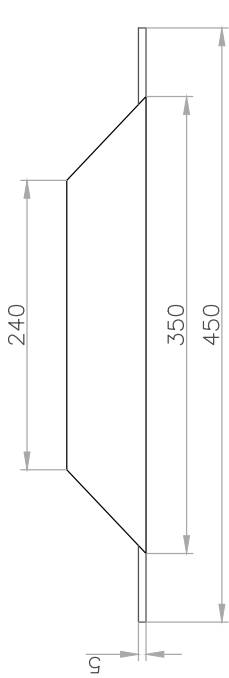
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE 45-AL



ALUMINIUM ANODE :

net weight : 4,6 kg
gross weight : 5,1 kg



Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

2700 AlNiTiG (artificial)
 -1100 mV vs. Ag/AgCl reference cell/normal (in seawater)

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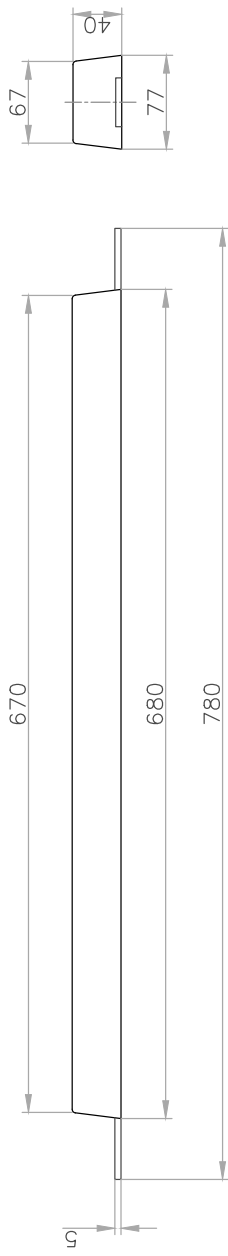
scale:n.t.s. Art. No.: Weight: +/− 3%
 Dwg. No.:S11242 Ben. Tol.: NACE SP0387
 Dfm.:A-4

ANODE TYPE 46-AL-H

Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

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ALUMINUM ANODE:
 net weight: 5,1 kg
 gross weight: 5,7 kg

Aluminium alloy specification	Percentages (%)
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Self-corrosion potential:	-1100 mV vs. Ag/AgCl; reference cell nominal (in seawater)

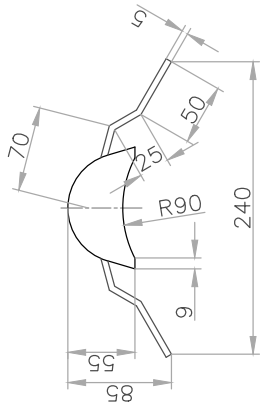
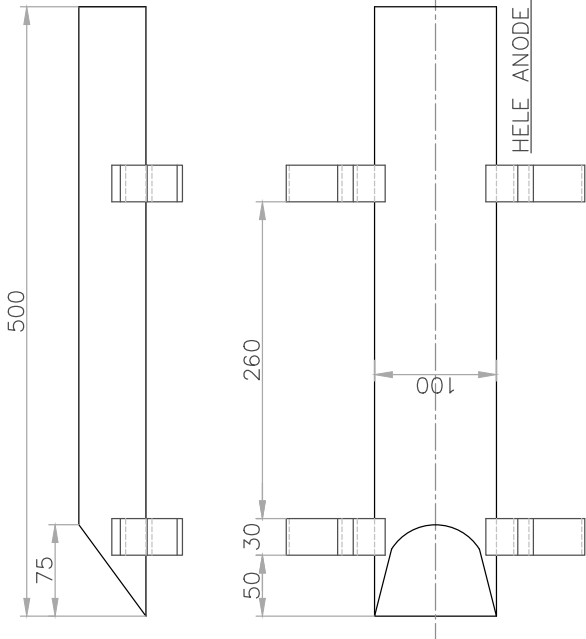
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.:	Weight: +/− 3%
drawn:	Dwg. No.: S11244	Ben. Tol.: NACE SP0387
date:	Dim.: A-4	ANODE TYPE 51-AL

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HELV ANODE TYPE 105-AI-1 / HALVE ANODE TYPE 53-AI

ALUMINIUM ANODE:

nett weight 5,25 kg
gross weight 5,75 kg

Aluminium alloy specification

Components	Impurities
Si	0,10 - 0,15
Zn	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Percentages (%)

2700 AlH ₂ G	1100 mV vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential:	

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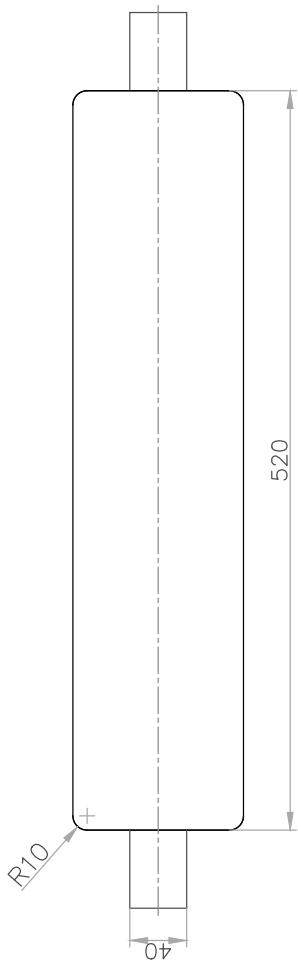
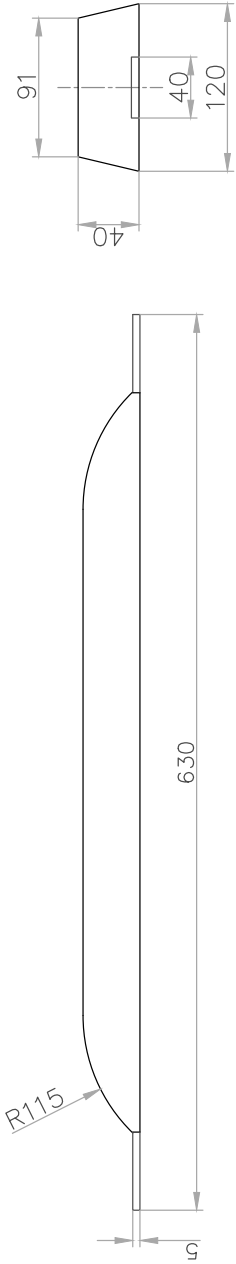
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info@ampak.de

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922488000	Weight: +/- 3%
drawn:	Dwg. No.: S 9444	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

ANODE TYPE 53-AL/105-AL-1



ALUMINIUM ANODE
 nett weight 6,2 kg
 gross weight 6,8 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,05
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)

Components	Others each
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity: 2700 Ah/Kg nominal
 Solution potential: -1100 mV (vs Ag/AgCl) reference cell nominal (in seawater)

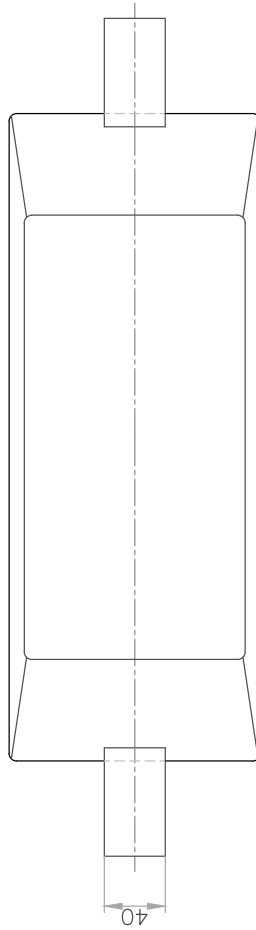
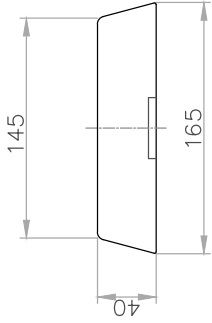
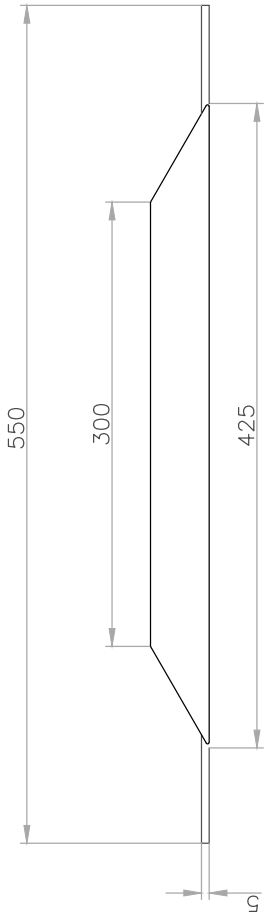
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922489000	Weight: + / - 3%
drawn:	Dwg. No.: S 44.55	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	ANODE TYPE 62-AL

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ALUMINIUM ANODE:

nett weight 6,4 kg
gross weight 7,2 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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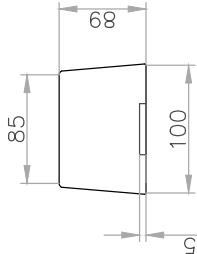
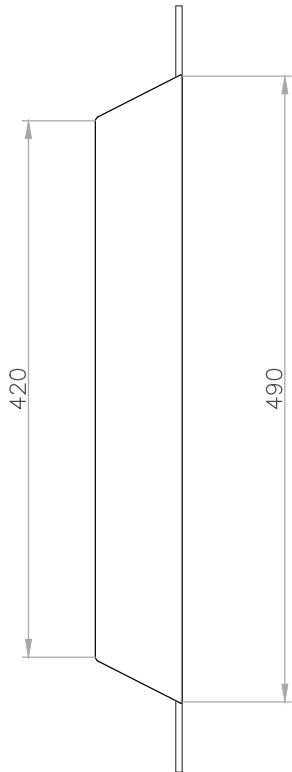
Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 923446000	Weight: + / - 3%
drawn:	Dwg. No.: S 8947	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	

ANODE TYPE 64-AL-H

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ALUMINIUM ANODE:
 nett weight 6,5 kg
 gross weight 7,5 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

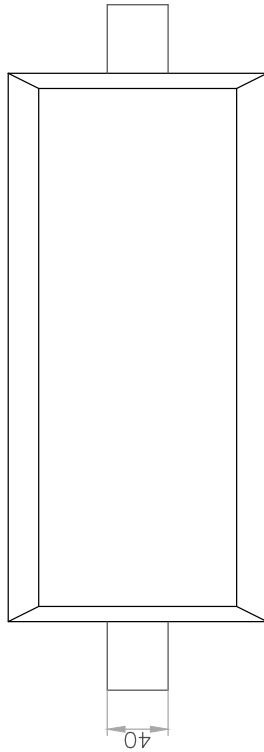
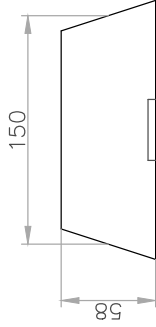
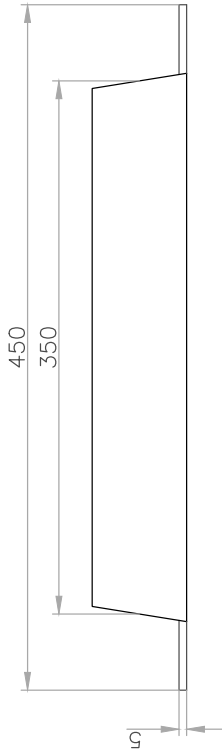
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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:	Weight: +/− 3%
drawn:	Dwg. No.:S1124,3	Pen. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE 65-AL-H

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ALUMINIUM ANODE:

nett weight 7,5 kg
gross weight 8,0 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Zinc 0,01 - 0,05
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper
 Iron
 Others each 0,02 Max

Percentages (%)

0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV (vs. Ag/AgCl) reference cell/normal (in seawater)

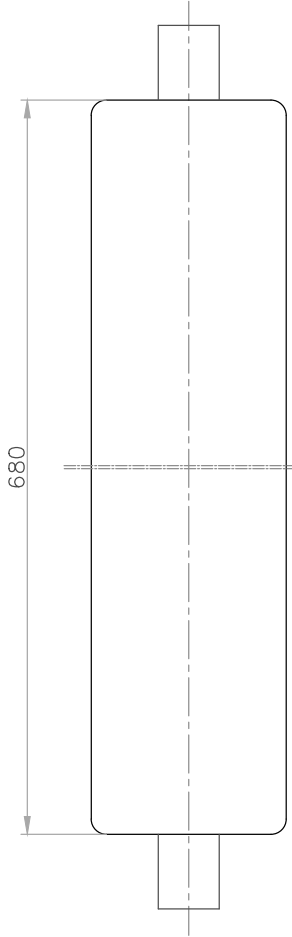
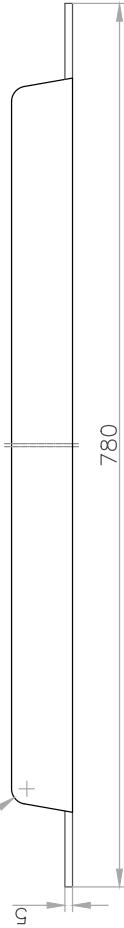
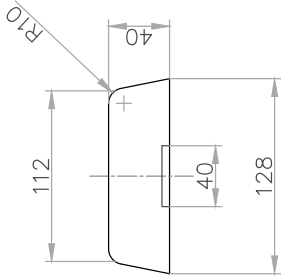
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
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 Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 923942000	Weight: +/- 3%
drawn:	Dwg. No.: S 10213	Gen. Tpl.: NACE SP0387
date:	Dim.: A-4	ANODE TYPE 75-AL

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ALUMINIUM ANODE:

nett weight 8,7 kg

gross weight 9,3 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,95% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
-1100 mV vs. Ag/AgCl reference cell/normal (in seawater)

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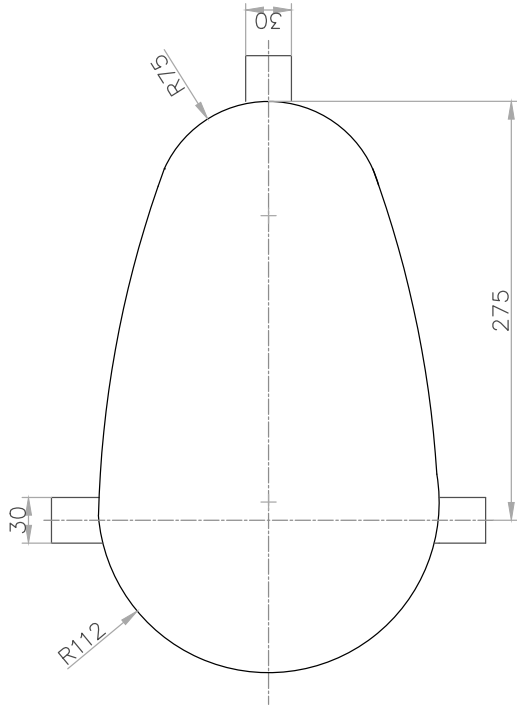
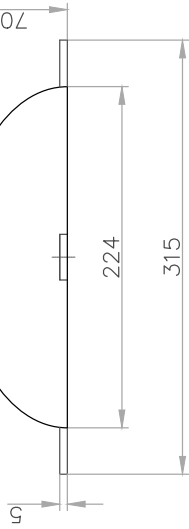
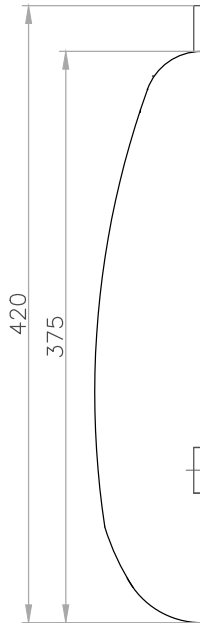
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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
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Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922498000	Weight: +/- 3%
drawn:	Dwg. No.: S 5613	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	ANODE TYPE 87-AL

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ALUMINIUM ANODE:

nett weight 9,3 kg

gross weight 10,0 kg

Aluminium alloy specification	Percentages (%)
Aluminum	0,10 - 0,15
Magnesium	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminum	Aluminum (99,95% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
-1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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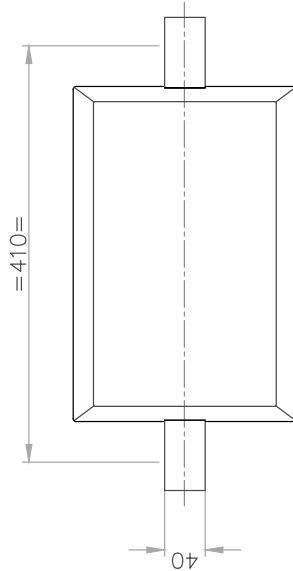
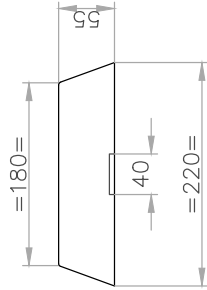
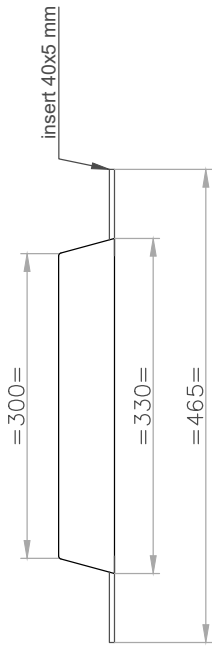
Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:922495000	Weight: +/- 3%
drawn:	Dwg. No.:S 4458	Ben. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 93-AL

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ALUMINIUM ANODE:

nett weight 9,5 kg
gross weight 10,0 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	99,85% Purity
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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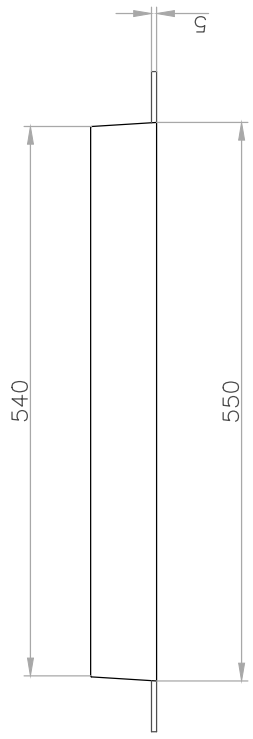
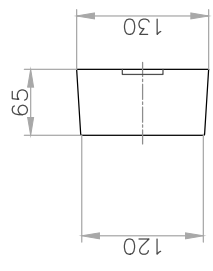
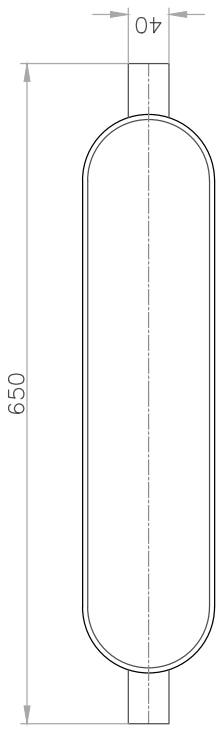
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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All date is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:923426000	Weight: +/− 3%
drawn:	Dwg. No.:S 9096	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE 95-AL

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ALUMINIUM ANODE:

nett weight 10,1 kg
gross weight 10,6 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	99,95 min (99,95% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
2700 Ah/Kg nominal
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

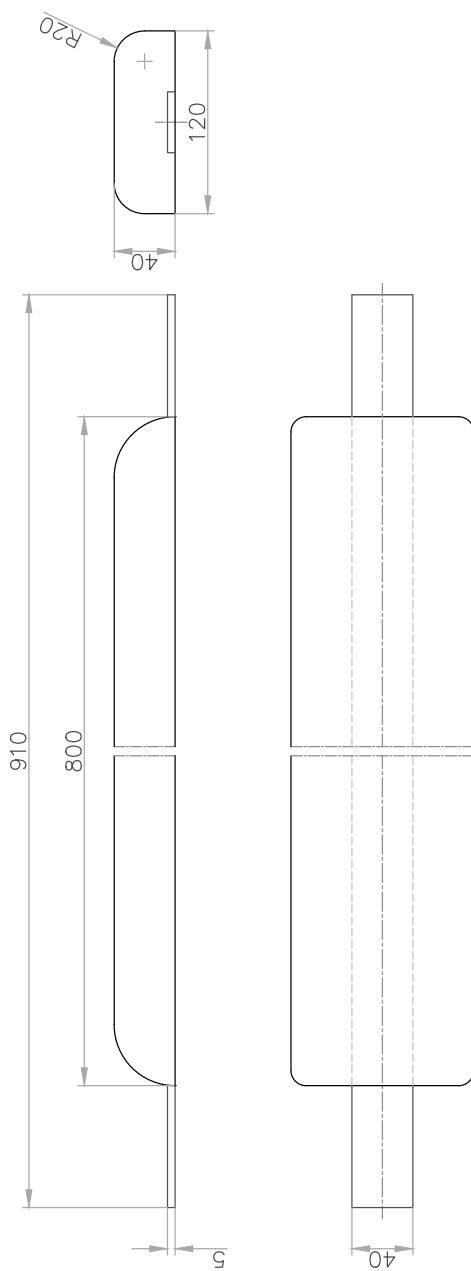
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scalen: t.s.	Art. No.: 929038000	Weight: +/- 3%
drawn:	Dwg. No.: S 11069	Gen.: NACE SP0387
date:	Dim.: A-4	ANODE TYPE 101-AL

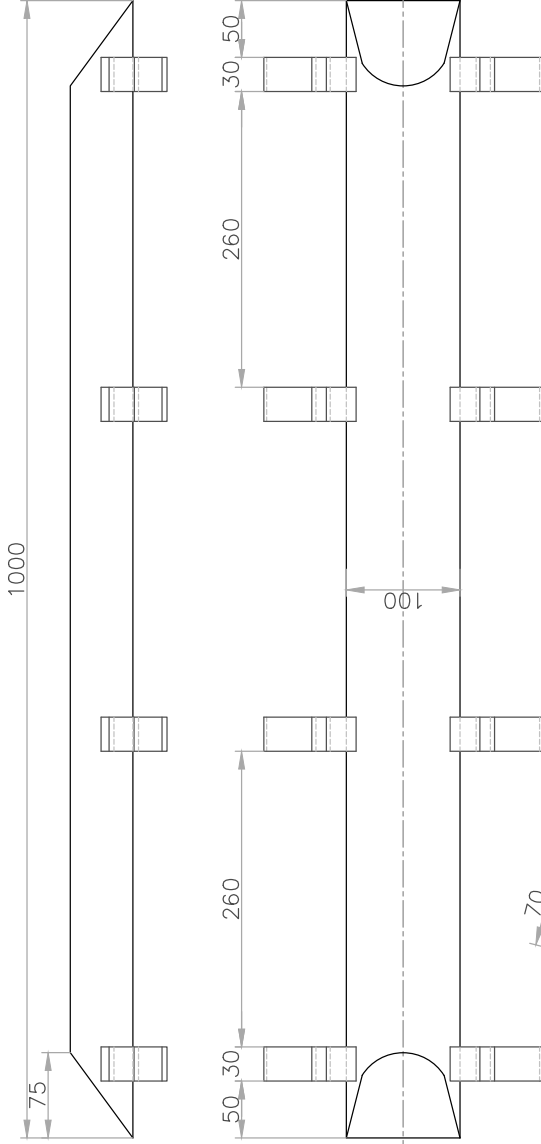
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ALUMINIUM ANODE:

nett weight 10,5 kg
gross weight 11,2 kg

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	Art. No.: 922490000 Dwg. No.: S 4459 scale: n. t. s. drawn: _____ date: _____	Weight: + / - 3% Gen. Tol.: MACE SP0387	ANODE TYPE 105-AL	
Aluminium alloy specification Components: Impurities Silicon 0,10 - 0,15 Zinc 2,0 - 5,0 Titanium 0,01 - 0,05 Iridium 0,01 - 0,05 Aluminium 99,85% (Purity) Copper 0,02 Max Iron 0,10 - 0,15 Others each 0,02 Max Electrochemical capacity: 2700 Ah/Kg nominal Solution potential: -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.			



ALUMINIUM ANODE:

net weight 10,5 kg
gross weight 12,0 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Iron 2,0 - 5,0
 Zinc 0,01 - 0,05
 Titanium 0,01 - 0,05
 Iridium
 Aluminium
 Copper
 Iron
 Others each

Precipitates (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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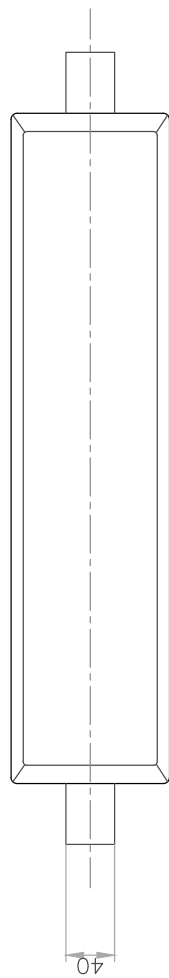
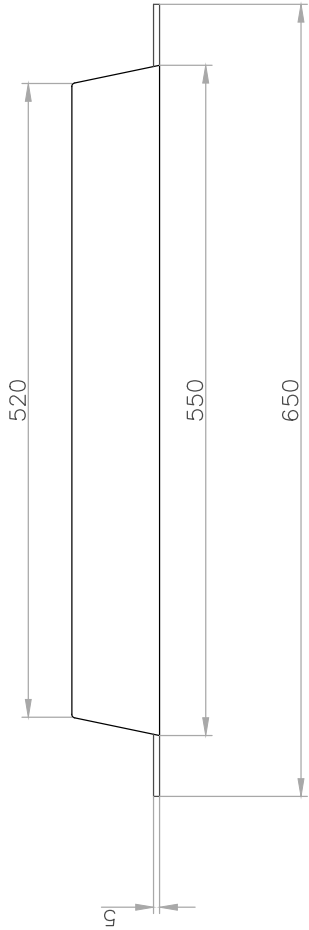
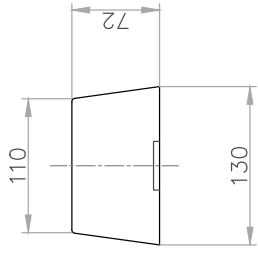
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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922492000	Weight: +/− 3%
drawn:	Dwg. No.: S 9444	Ben. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 105-AL-1

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ALUMINIUM ANODE:

nett weight 12,5 kg
gross weight 13,5 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,95% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
2700 Ah/Kg nominal
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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Other specifications are available on request

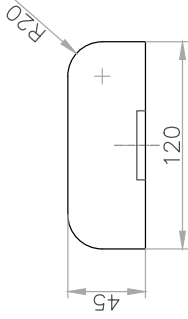
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:923481000	Weight: +/- 3%
drawn:	Dwg. No.:S 9278	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE 125-AL

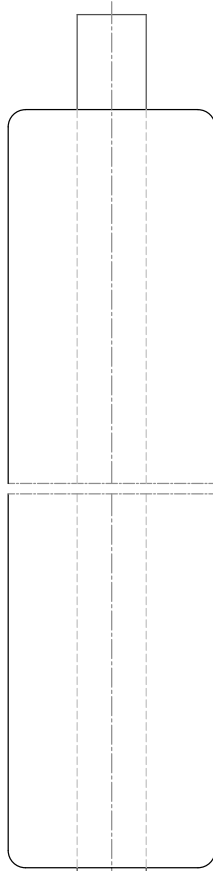
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1140

1000



5



40

ALUMINIUM ANODE:

nett weight 13,0 kg

gross weight 14,0 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper
 Iron
 Others each
 Electrochemical capacity:
 Solution potential:

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 99,85% Purity
 0,02 Max
 0,10 - 0,15
 0,02 Max

2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

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 info@ampak.de

scale: n. l. s.
 drawn: _____
 date: _____

Art. No.: 922499000

Dwg. No.: S 5615

Weight: +/- 3%

Gen. Tol.: NACE SP0387

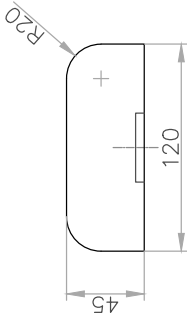
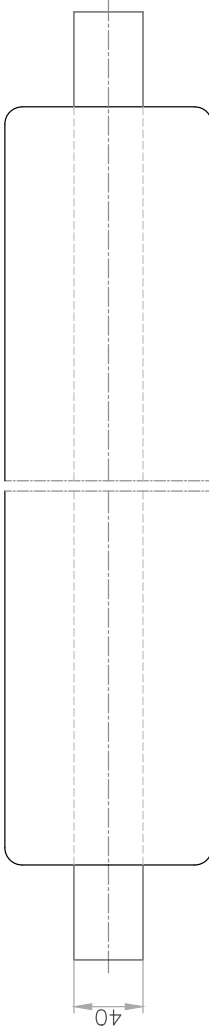
ANODE TYPE 130-AL

Dim.: A-4

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1140

1000

ALUMINIUM ANODE:

nett weight 15,0 kg

gross weight 16,0 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1050 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s. Art. No.: 923526000 Weight: +/- 3%
 drawn: Dwg. No.: S 9070 Gen. Tol.: NACE SP0387

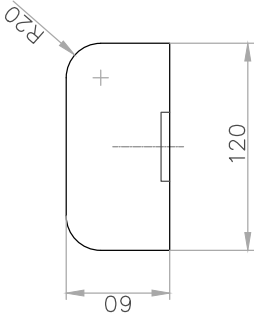
ANODE TYPE 150-AL

date: Dim.: A - 4

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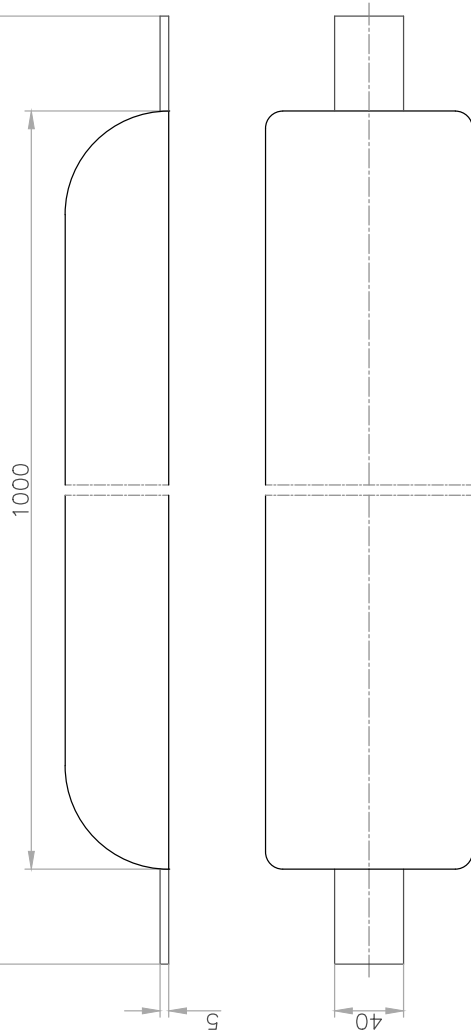
1140

1000



99

120



5

40

ALUMINIUM ANODE:

nett weight 19,0 kg
gross weight 20,0 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Zinc 0,01 - 0,05
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max

Electrochemical capacity: 2100 Ah/Kg nominal
 Solution potential: -1050 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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 info@ampak.de

Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All date is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s.

Art. No.: 1922500000 Weight: +/- - 3%

drawn:
 date:

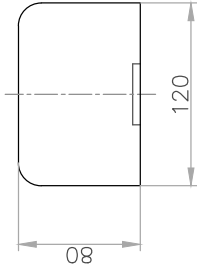
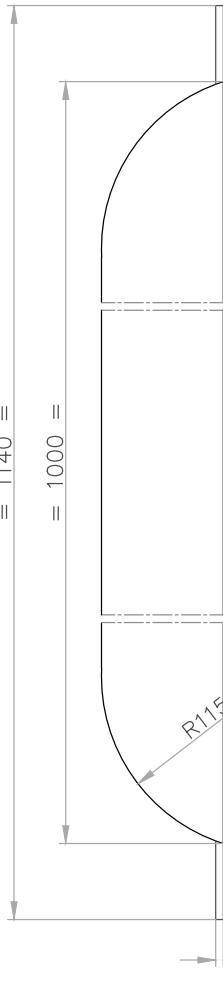
Dwg. No.: S 5568 A Ben. Tol.: NACE SP0387

Dim.: A-4

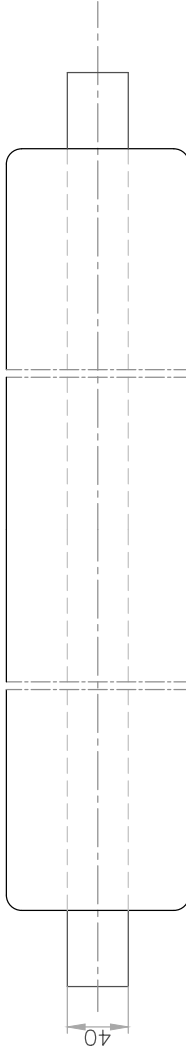
ANODE TYPE 190-AL

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= 1140 =
= 1000 =



5
40



ALUMINIUM ANODE:
nett weight 25,0 kg
gross weight 26,3 kg

Aluminium alloy specification	Percentages (%)
Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	99,85 min (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

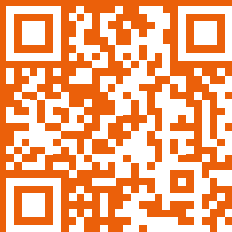
scale:n.t.s.	Art. No.:922494000	Weight: +/− 3%
drawn:	Dwg. No.:S 4648	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE 250-AL

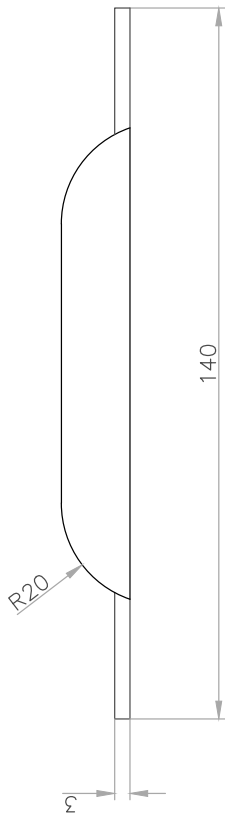
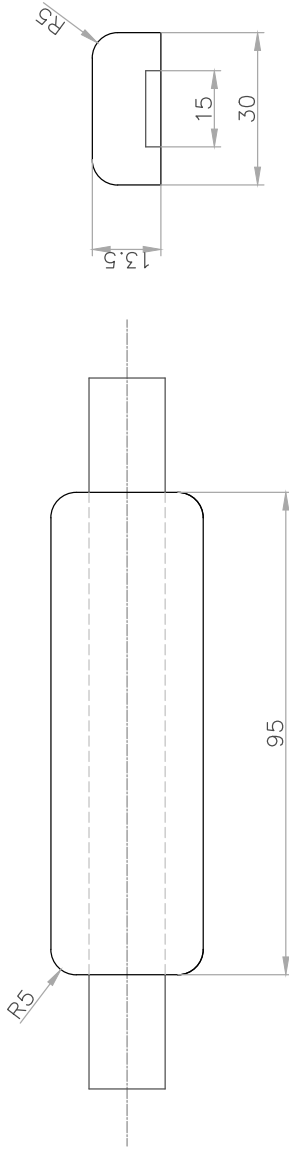
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ZINC WELD-ON HULL ANODES

The next pages gives only a selection of types we have available.
The length of the inserts can vary on your request, as long as they are longer than the casted anode body.

For contact scan QR-code





ZINC ANODE:

nett weight 0,25 kg
gross weight 0,30 kg

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Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

Art. No.: 322175000	Weight: + / - 3%
Dwg. No.: S 4495	Gen. Tol.: NACE SP0387
Dim.: A-4	

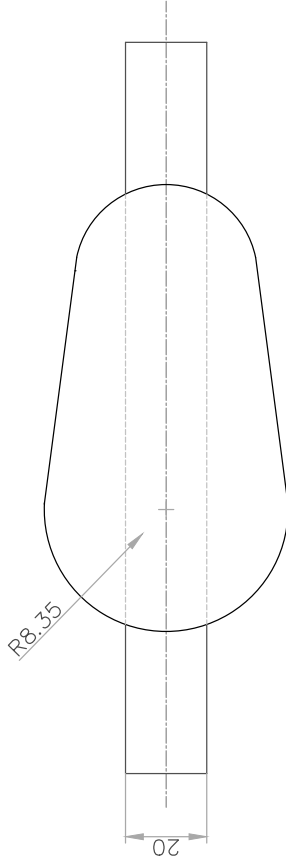
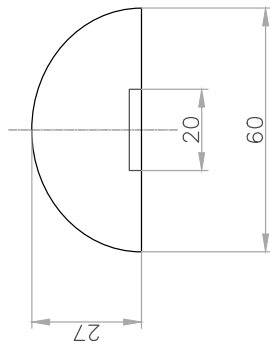
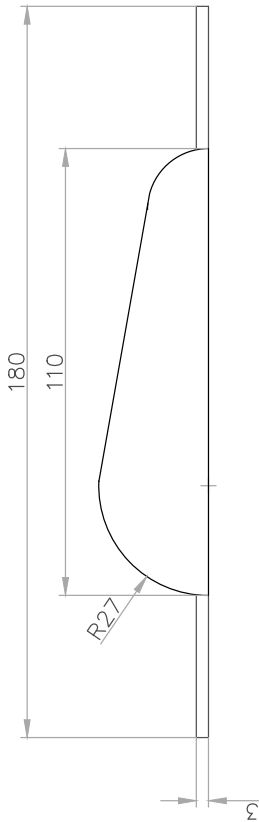
scale: t. s.	drawn: _____
date: _____	

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,875-99,975
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max
Electrochemical capacity		1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential		-1050 vs. Ag/AgCl reference cell nominal (in seawater)

ANODE TYPE 2.5-Z

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ZINC ANODE

nett weight 0,6 kg
gross weight 0,7 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		0,005 max
Copper		0,005 max
Iron		0,006 max
Lead		0,006 max
Others total		0,10 max

Electrochemical capacity: 1000 vs. Ag/AgCl in neutral solution
 Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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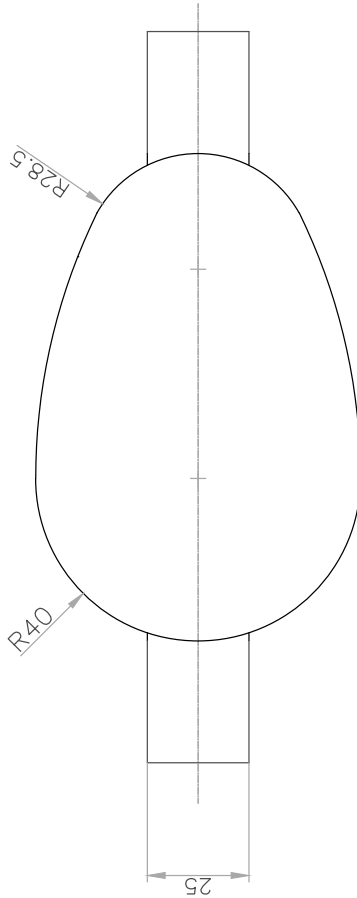
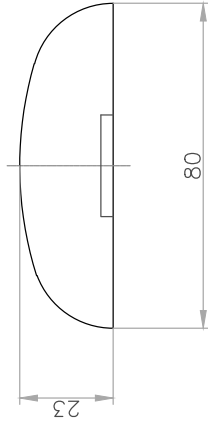
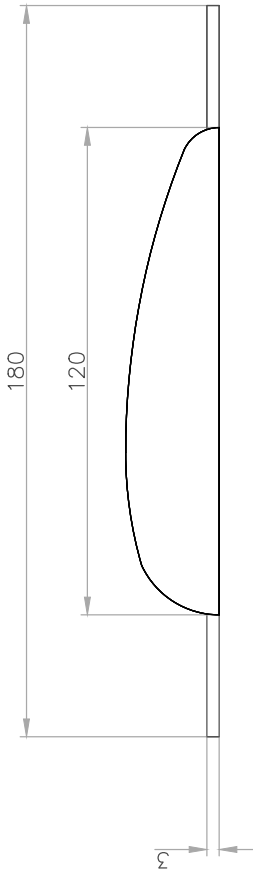
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info@ampak.de

Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t. s.	Art. No.:922177000	Weight: + / - 3%
drawn:	Dwg. No.:S 4792	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	

ANODE TYPE 6-Z

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ZINC ANODE:

nett weight 0,9 kg
gross weight 1,0 kg

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inf@ampak.de

Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

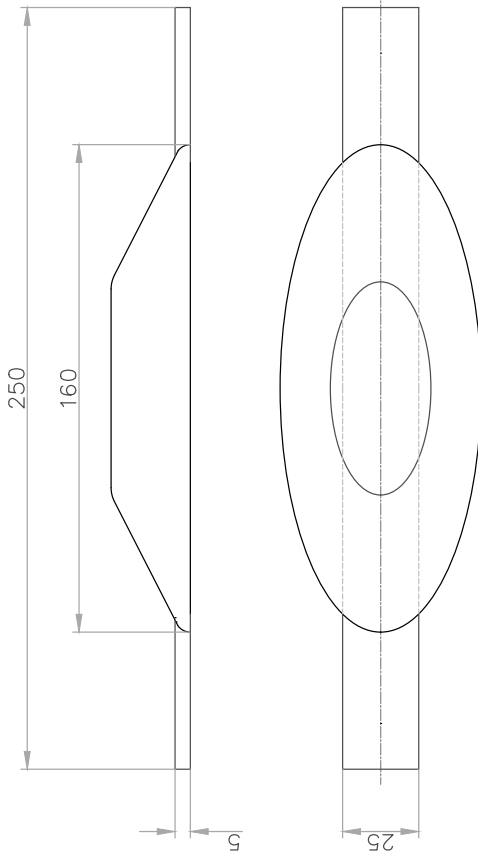
scale:n. t. s.	Art. No.: 322171000	Weight: + / - 3%
drawn:	Dwg. No.: S 4428	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 9-Z

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		0,005 max
Copper		0,005 max
Iron		0,006 max
Lead		0,006 max
Others total		0,10 max
Electrochemical capacity		-1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential		

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ZINC ANODE:

nett weight 1,0 kg
gross weight 1,2 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc 99,80-99,95

Copper 0,005 max
Iron 0,005 max
Lead 0,006 max
Others total 0,10 max
Electrochemical capacity: nominal
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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Other specifications are available on request

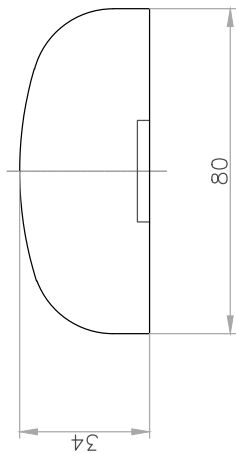
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 922259000	Weight: + / - 3%
drawn:	Gen. No.: S 8091	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 10-Z-H

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180



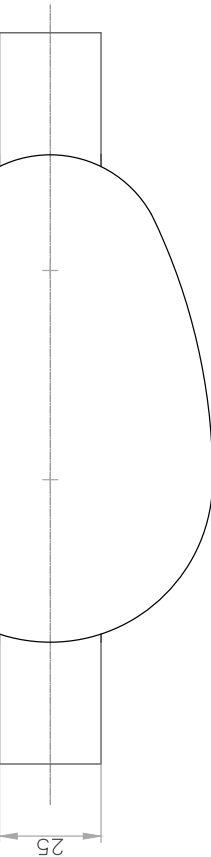
120

3

R40

R28,5

25



ZINC ANODE:

nett weight 1,5 kg

gross weight 1,6 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,475-99,975

Component	Limit
Copper	0,005 max
Iron	0,005 max
Lead	0,006 max
Others total	0,10 max

Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)

Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm

All data is subject to change without prior notice

Anode can also be provided with a coated backside

scale: n. t. s.

Art. No.: 922245000 Weight: +/- 3%

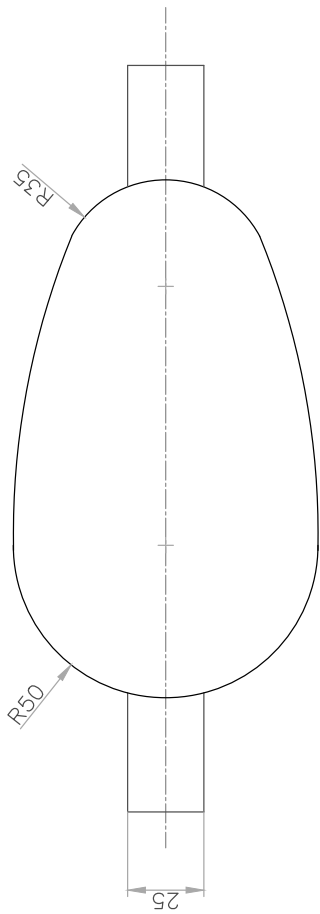
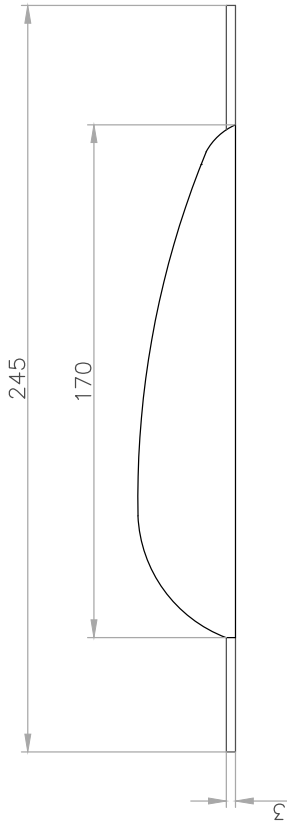
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drawn:

date:

ANODE TYPE 15-Z

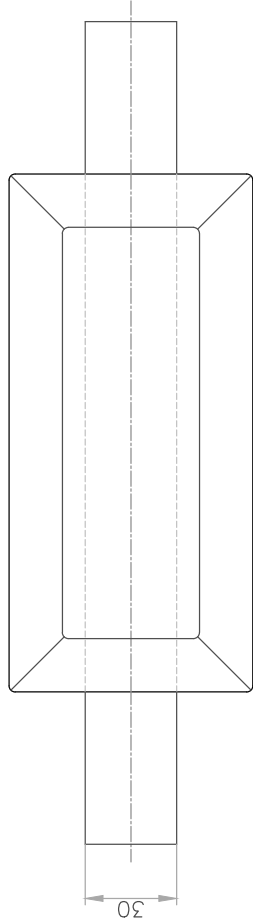
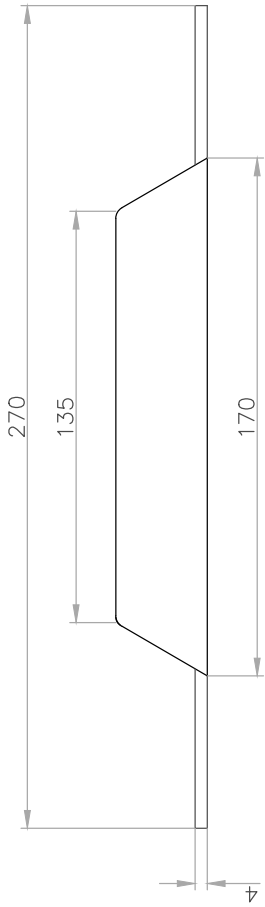
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ZINC ANODE:

nett weight 2,0 kg
gross weight 2,2 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>99,975-99,925</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential: -1050 vs. Ag/AgCl</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		99,975-99,925	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de</p>	
Components	Impurities	Percentage (%)																									
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Lead		0,006 max																									
Others total		0,10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 922226000 Weight: +/- 3% Gen. Tol.: NACE SP0387</p>																									
<p>scale: n.t.s.</p>		<p>Dwg. No.: S 5711 Dim.: A-4</p>																									
<p>drawn:</p>		<p>date:</p>																									
<p>Other specifications are available on request</p>		<p>ANODE TYPE 20-Z</p>																									
<p>Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>																											
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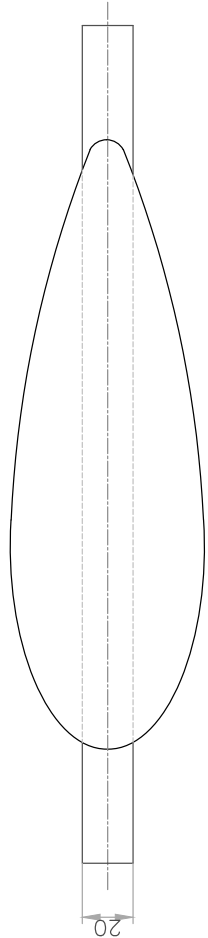
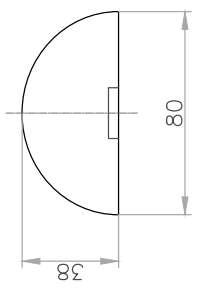
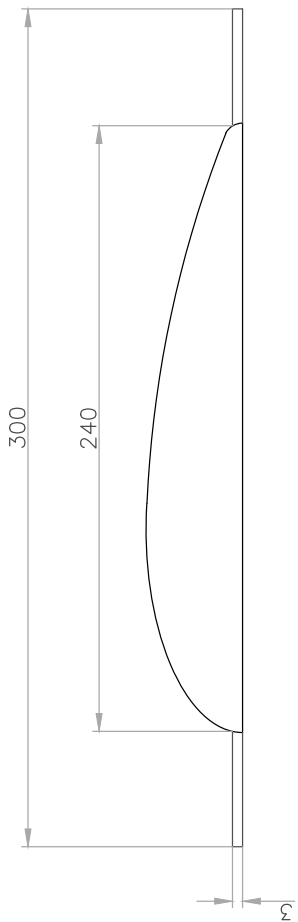


ZINC ANODE:

nett weight 2,0 kg

gross weight 2,3 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <p>Components Impurities Percentage (%)</p> <p>Cadmium 0,025-0,07</p> <p>Aluminum 0,10-0,5</p> <p>Zinc</p> <p>Copper 0,005 max</p> <p>Iron 0,005 max</p> <p>Lead 0,006 max</p> <p>Others total 0,10 max</p> <p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel: +31 (0) 345-633355 Fax: +31 (0) 345-633344 info@ampak.nl inf@ampak.nl</p>		<p>Other specifications are available on request</p> <p>Note: All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>	
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 922233000 Weight: + / - 3%</p>		<p>Gen. Tol.: NACE SP0387</p>	
<p>scale: n. t. s.</p>		<p>Dwg. No.: S 7578</p>		<p>ANODE TYPE 20-Z-H</p>	
<p>drawn:</p>		<p>Dim.: A-4</p>		<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>	
<p>date:</p>					



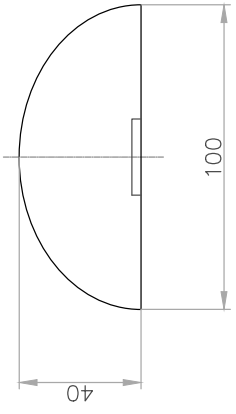
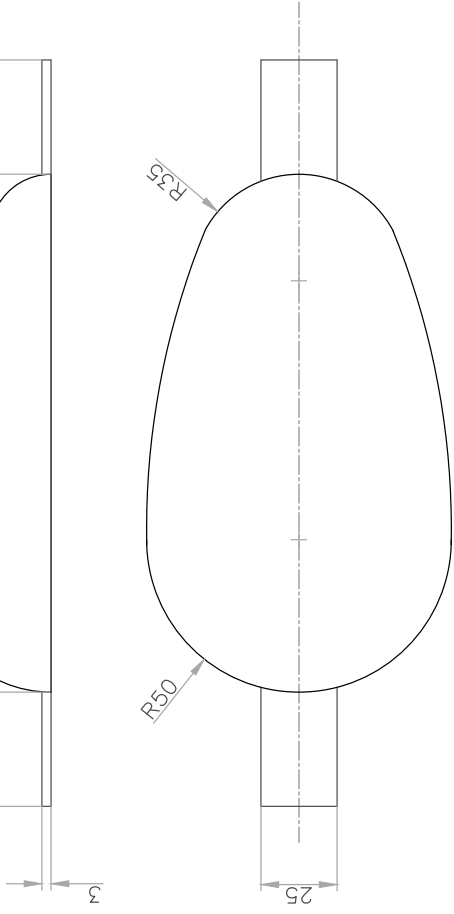
ZINC ANODE:

nett weight 2,6 kg
gross weight 2,8 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: 1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		0,005 max	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 @ampak.nl info@ampak.nl</p>	
Components	Impurities	Percentage (%)																									
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Zinc		0,005 max																									
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Iron		0,005 max																									
Lead		0,006 max																									
Others total		0,10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Other specifications are available on request</p>																									
<p>scale: n. t. s.</p>		<p>Art. No.: 922185000 Weight: +/- 3%</p>																									
<p>drawn: _____</p>		<p>Gen. Tol.: NACE SP0387</p>																									
<p>date: _____</p>		<p>ANODE TYPE 26-Z</p>																									
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245

170



ZINC ANODE:

net weight 2,8 kg
gross weight 3,0 kg

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info@ampak.de

Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 922180000	Weight: + / - 3%
drawn:	Dwg. No.: S 4.429	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

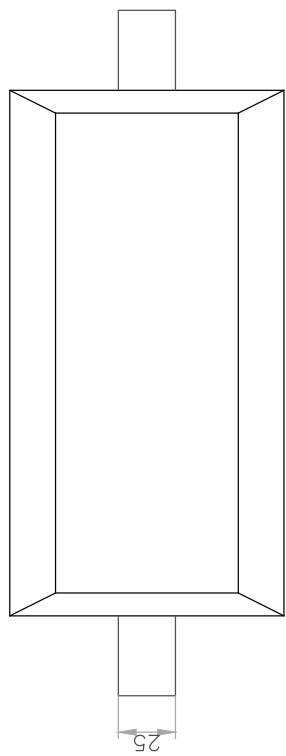
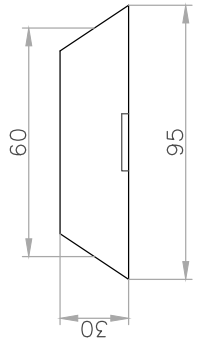
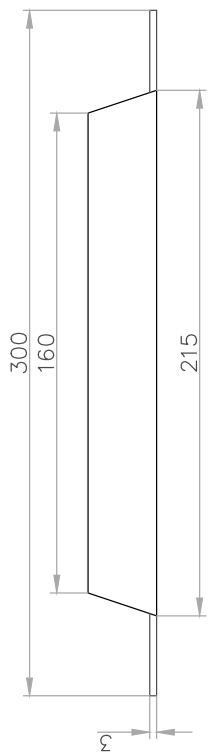
ANODE TYPE 28-Z

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,90-99,95
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max

Electrochemical capacity: 1000-1200 Ah/kg
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

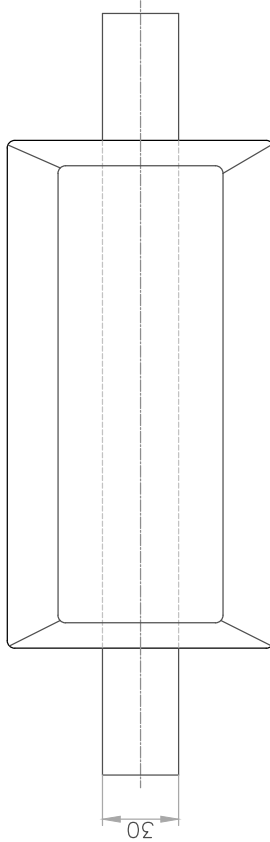
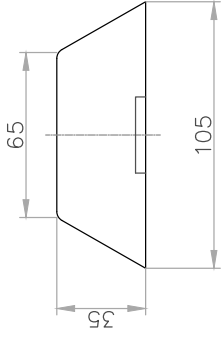
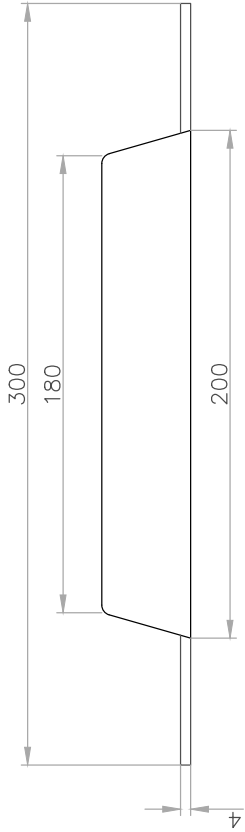
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ZINC ANODE:

nett weight 3,0 kg
gross weight 3,2 kg

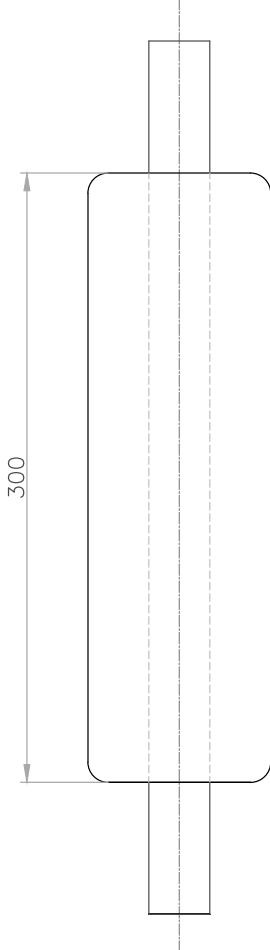
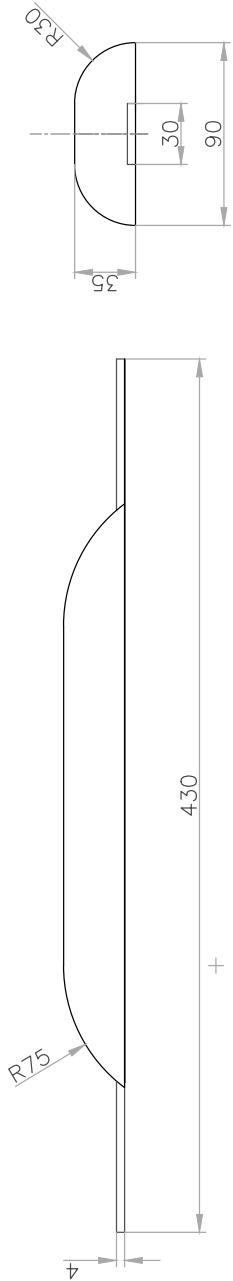
<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>99,975</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential: nominal</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		99,975	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl inf@ampak.nl</p>	
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Iron		0,005 max																									
Lead		0,006 max																									
Others total		0,10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 926955002 Weight: +/- 3% Gen. Tol.: NACE SP0387</p>																									
<p>scale: t.s.</p>		<p>drawn: F.J. te Beest Dwg. No.: S 11221 date: 27-11-2019 Dim.: A-4</p>																									
<p>Other specifications are available on request</p> <p>Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p> <p style="text-align: right;">ANODE TYPE 30-Z-H</p>																											
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ZINC ANODE:

nett weight 4,0 kg
gross weight 4,3 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		0,005 max	Copper		0,005 max	Iron		0,006 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel: +31 (0) 345-633355 Fax: +31 (0) 345-633344 @ampak.nl info@ampak.nl</p>		<p>Other specifications are available on request</p> <p>Note: All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>	
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Copper		0,005 max																											
Iron		0,006 max																											
Lead		0,006 max																											
Others total		0,10 max																											
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 922234000 Weight: +/- 3%</p>		<p>Gen. Tol.: NACE SP0387</p>																									
<p>scale: t. s.</p>		<p>Dwg. No.: S 7580</p>		<p>ANODE TYPE 40-Z-H</p>																									
<p>drawn:</p>		<p>Dim.: A-4</p>		<p>Copyright Ampak®. No part of the drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>																									
<p>date:</p>																													



ZINC ANODE:

nett weight 4,5 kg
gross weight 4,9 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,875-99,975
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max
Electrochemical capacity		-1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential		

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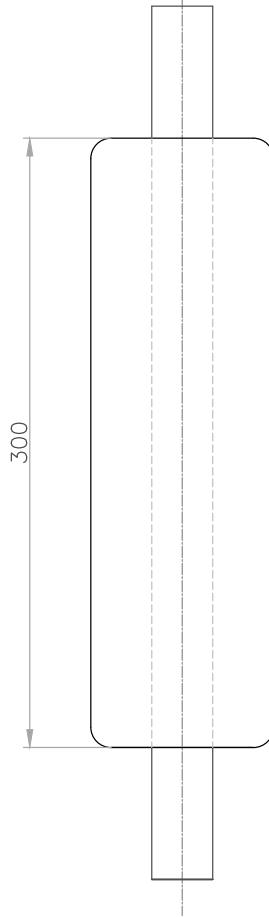
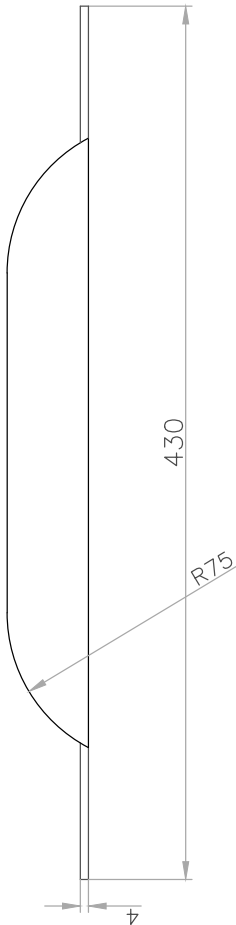
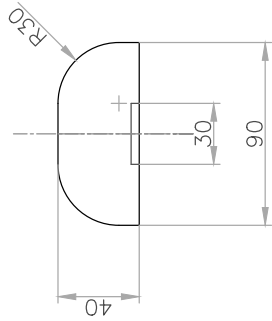
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Fax +31 (0) 345-633344
info@ampak.nl
inf@ampak.nl

Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n. t. s.	Art. No.: 922188000	Weight: + / - 3%
drawn:	Dwg. No.: S 44.30A	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 45-Z

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ZINC ANODE:

nett weight 5,0 kg
gross weight 5,4 kg

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Other specifications are available on request

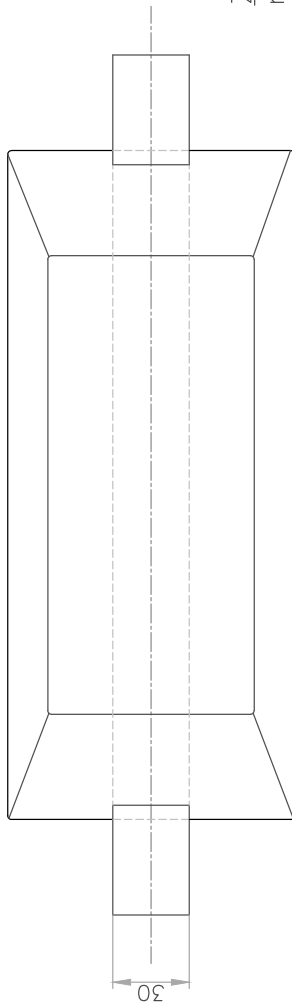
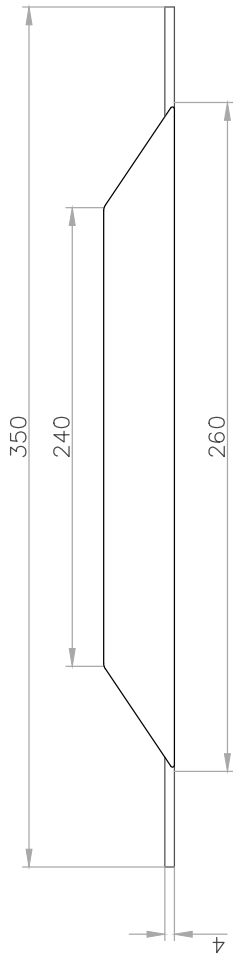
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 3922186000	Weight: + / - 3%
drawn:	Gen. No.: S 44.30	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 50-Z

Zinc alloy specifications acc. to US MIL Spec-A-18001K	
Components	Impurities
Cadmium	0,025-0,07
Aluminum	0,10-0,5
Zinc	99,80-99,90
Copper	0,005 max
Iron	0,005 max
Lead	0,006 max
Others total	0,10 max
Electrochemical capacity	-1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential	

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ZINC ANODE:

nett weight 5,2 kg
gross weight 5,6 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K
 Components Impurities Percentage (%)
 Cadmium 0,025-0,07
 Aluminum 0,10-0,5
 Zinc 0,005 max
 Copper 0,005 max
 Iron 0,005 max
 Lead 0,006 max
 Others total 0,10 max
 Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)
 Solution potential:

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 info@ampak.de

Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 923920000	Weight: + / - 3%
drawn:	Dwg. No.: S 11230	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 52-Z

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440

290

320

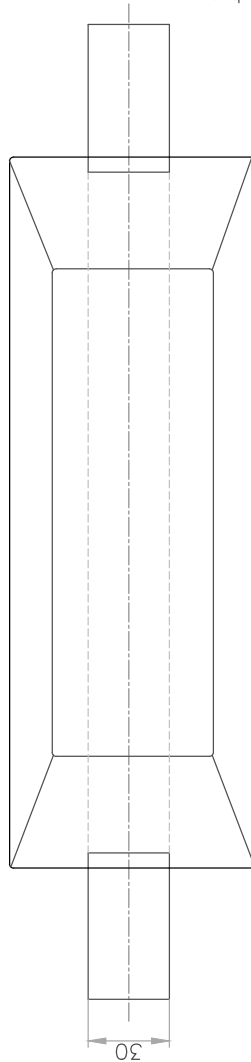
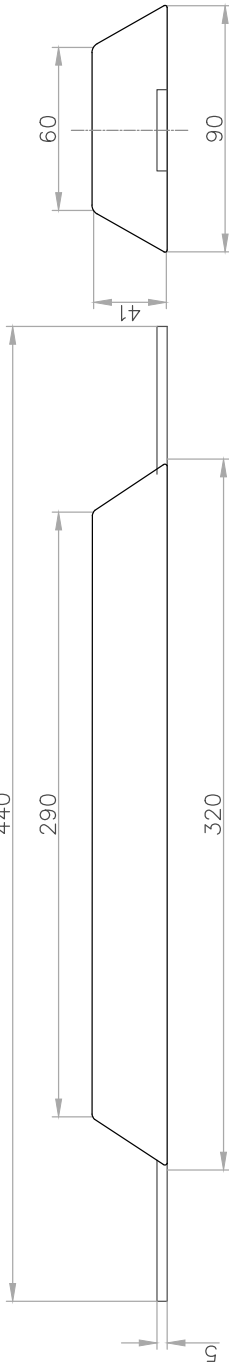
60

90

41

15

30



ZINC ANODE:

nett weight 5,5 kg

gross weight 6,0 kg

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info@ampak.de

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: t. s.

Art. No.:

Weight: +/− 3%

Gen. Tol.: NACE SP0387

drawn:

Dwg. No.: S 11065

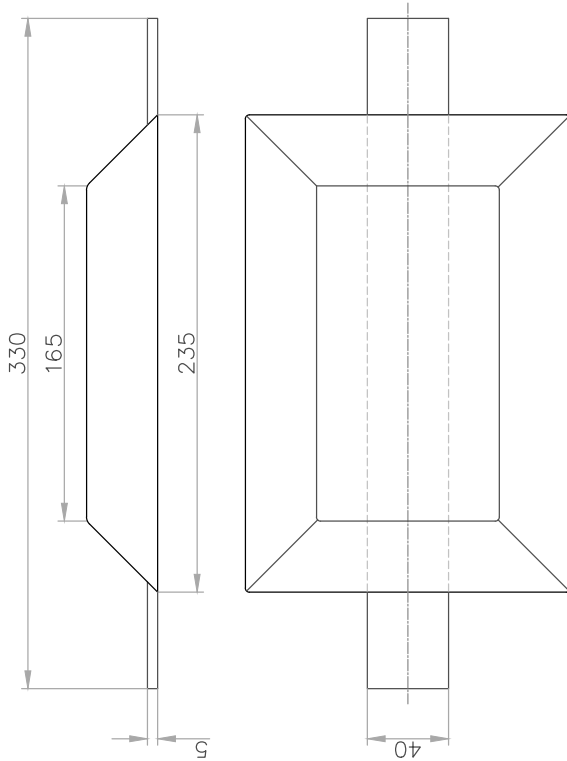
ANODE TYPE 55-Z

date:

Dim.: A-4

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc 99,925-99,975
Copper 0,005 max
Iron 0,005 max
Lead 0,006 max
Others total 0,10 max
Electrochemical capacity: 1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential: -1050 vs. Ag/AgCl

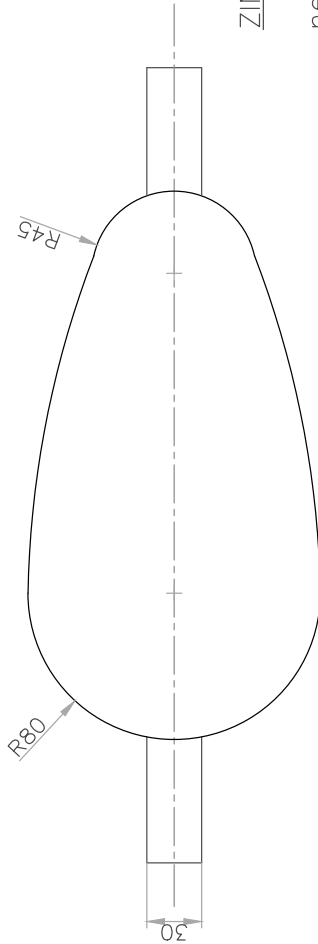
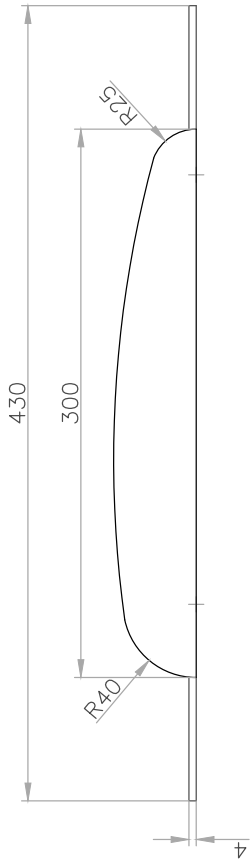
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ZINC ANODE:

nett weight 6,0 kg
gross weight 6,5 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>99,975</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		99,975	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl inf@ampak.de</p>	
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Zinc		99,975																									
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Iron		0,005 max																									
Lead		0,006 max																									
Others total		0,10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 922235000 Weight: +/- 3% Gen. Tol.: NACE SP0387</p>																									
<p>scale: n. t. s.</p>		<p>drawn: _____ date: _____</p>																									
<p>Other specifications are available on request</p> <p>Note: All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>		<p>ANODE TYPE 60-Z-H</p>																									
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ZINC ANODE:

nett weight 7,1 kg
gross weight 7,5 kg

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inf@ampak.de

Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n. t. s.	Art. No.: 922209000	Weight: + / - 3%
drawn:	Dwg. No.: S 5614	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

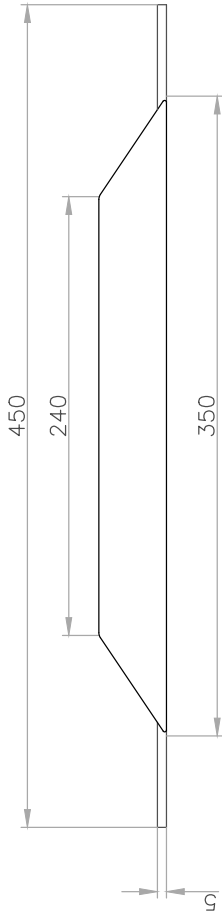
ANODE TYPE 71-Z

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc 99,905 max

Copper 0,005 max
Iron 0,005 max
Lead 0,006 max
Others total 0,10 max

Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential:

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ZINC ANODE:

nett weight 8,0 kg

gross weight 8,5 kg

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

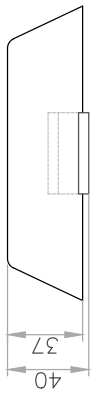
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Gen. No.: S 9600	Gen. Tol.: NACE SP0387
Dim.: A-4	

ANODE TYPE 80-Z-H

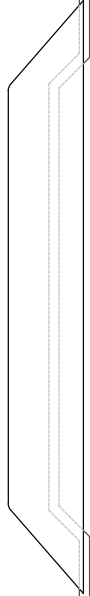
Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc 99,905-99,975

Copper 0,005 max
Iron 0,005 max
Lead 0,006 max
Others total 0,10 max
Electrochemical capacity: 1000
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

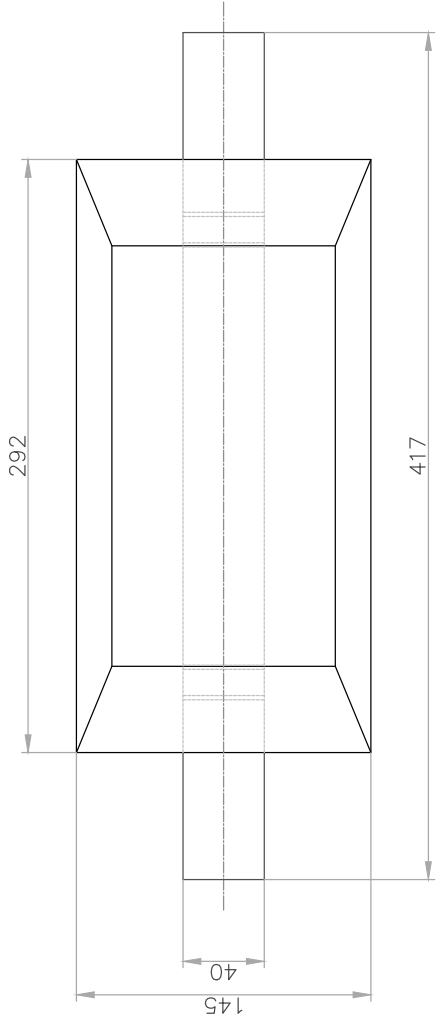
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40
37



5



292

145
40

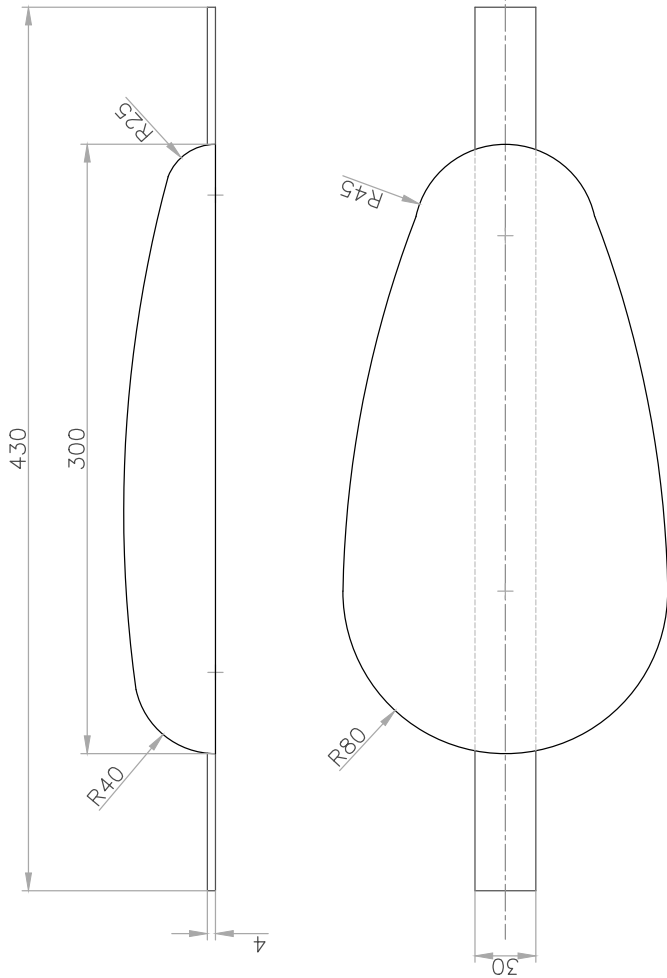
417

ZINC ANODE:

nett weight 9,1 kg

gross weight 9,6 kg

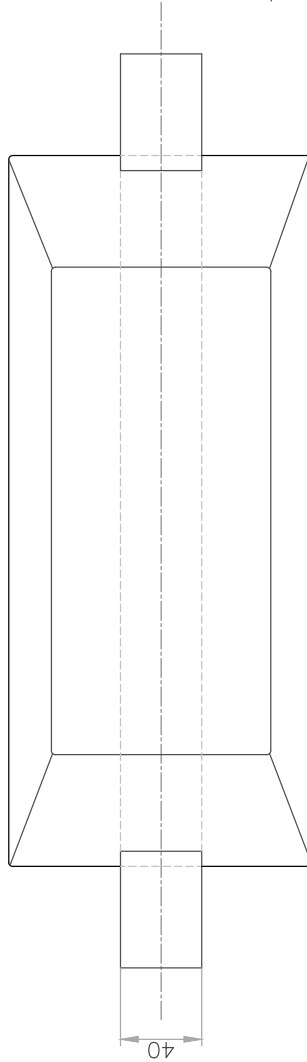
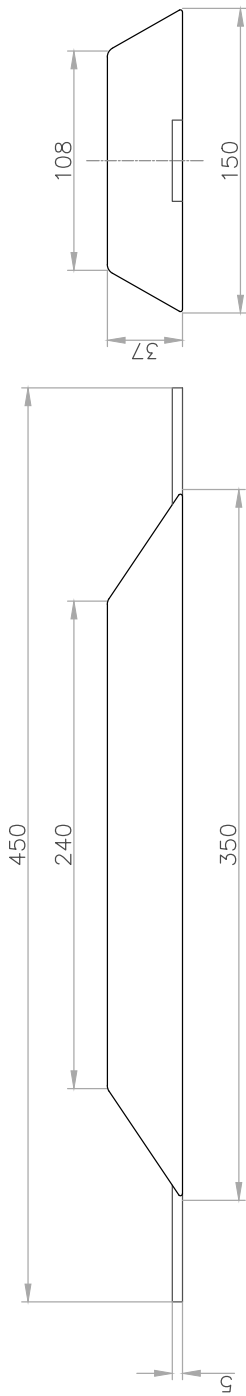
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Copper		0,005 max																											
Iron		0,005 max																											
Lead		0,006 max																											
Others total		0,10 max																											
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 326963000</p>	<p>Weight: +/− 3%</p>	<p>ANODE TYPE 91-Z</p>																									
<p>scale: n. t. s.</p>		<p>Dwg. No.: S 11068</p>	<p>Gen. Tol.: NACE SP0387</p>																										
<p>drawn:</p>		<p>Dim.: A-4</p>	<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>																										
<p>date:</p>																													



ZINC ANODE:

nett weight 9,6 kg
gross weight 10,0 kg

<p>AMPAK® CATHODIC PROTECTION</p>		<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl inf@ampak.de</p>		<p>Other specifications are available on request</p>	
<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p>		<p>Art. No.:922191000 Weight: + / - 3%</p>		<p>ANODE TYPE 96-Z</p>	
<p>Components Impurities Percentage (%)</p>		<p>Dwg. No.:S 44.31 Gen. Tol.: NACE SP0387</p>		<p>Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>	
<p>Aluminum 0,025-0,07</p>		<p>drawn: _____</p>		<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>	
<p>Zinc 0,10-0,5</p>		<p>date: _____</p>		<p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>	
<p>Copper 0,005 max</p>		<p>scale: t. s.</p>		<p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>	
<p>Iron 0,005 max</p>		<p>others total 0,10 max</p>		<p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>	
<p>Lead 0,006 max</p>		<p>others total 0,10 max</p>		<p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>	
<p>Zinc 0,10-0,5</p>		<p>others total 0,10 max</p>		<p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>	



ZINC ANODE:
 nett weight 9,6 kg
 gross weight 10,1 kg

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 info@ampak.nl
 info@ampak.de

Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

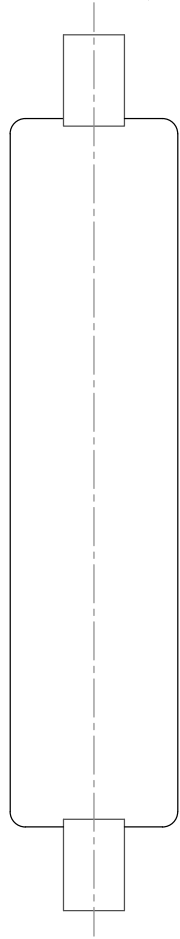
scale: n. t. s.	Art. No.: 322263000	Weight: + / - 3%
drawn:	Dwg. No.: S 7573	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 96-Z-H

Zinc alloy specifications acc. US MIL Spec-A-1800 K
 Components Impurities Percentage (%)
 Cadmium 0,025-0,07
 Aluminum 0,10-0,5
 Zinc 0,005 max

Copper 0,005 max
 Iron 0,005 max
 Lead 0,006 max
 Others total 0,10 max
 Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)
 Solution potential: -1050 vs. Ag/AgCl

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ZINC ANODE:

nett weight 12,0 kg
gross weight 12,5 kg

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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Art. No.: 322195000	Weight: +/- 3%
Dwg. No.: S 5358	Gen. Tol.: NACE SP0387
Dim.: A-4	

ANODE TYPE 120-Z

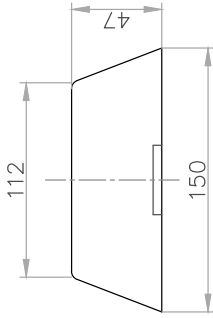
Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,90-99,95

Component	Limit
Copper	0,005 max
Iron	0,005 max
Lead	0,006 max
Others total	0,10 max

Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential:

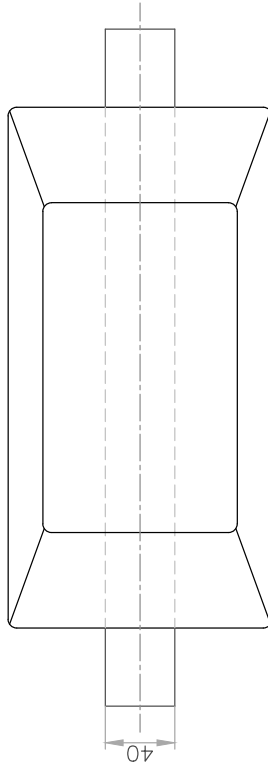
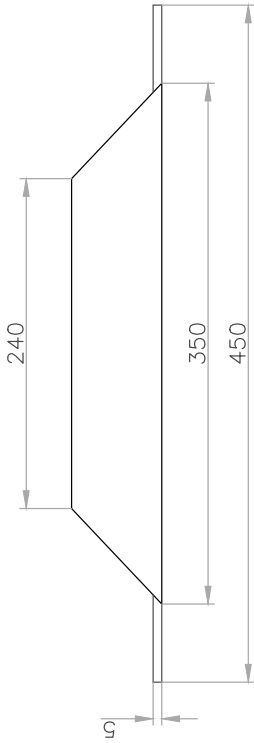
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ZINC ANODE :

net weight : 12,0 kg

gross weight : 12,5 kg



Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,95 max

Component	Percentage (%)
Copper	0,005 max
Iron	0,005 max
Lead	0,006 max
Others total	0,10 max

Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

Solution potential:

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Other specifications are available on request

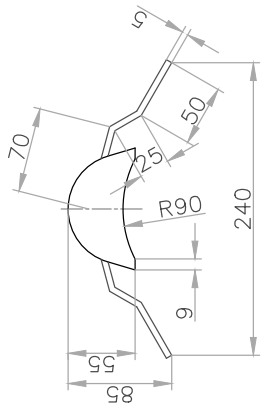
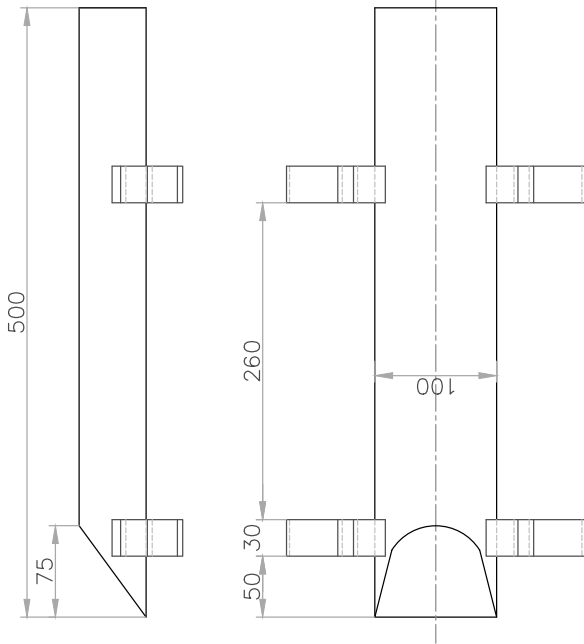
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE 120-Z-H

scale:n.t.s. Art. No.:326959000 Weight: +/- 3% Gen. Tol.: NACE SP0387

drawn:F.J. te Beest | Dwg. No.:S-10965 | Copyright Ampak[®]. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

date: 6-12-2017 | Dim.: A-4

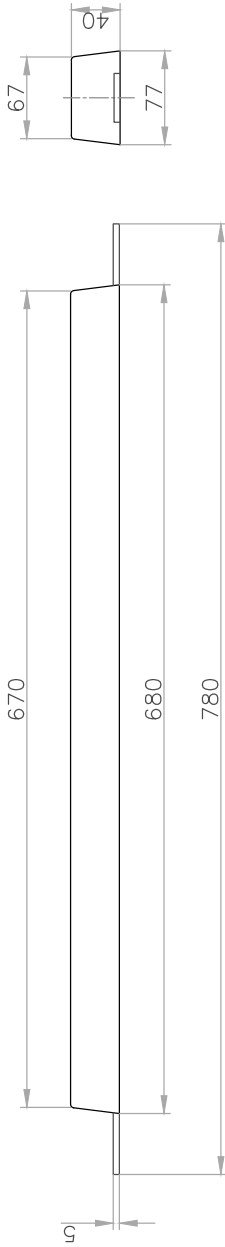


ZINC ANODE:

nett weight 13,3 kg
gross weight 14,0 kg

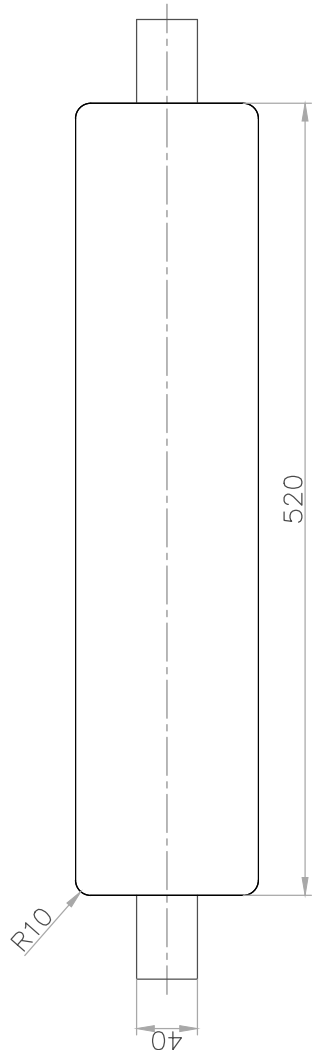
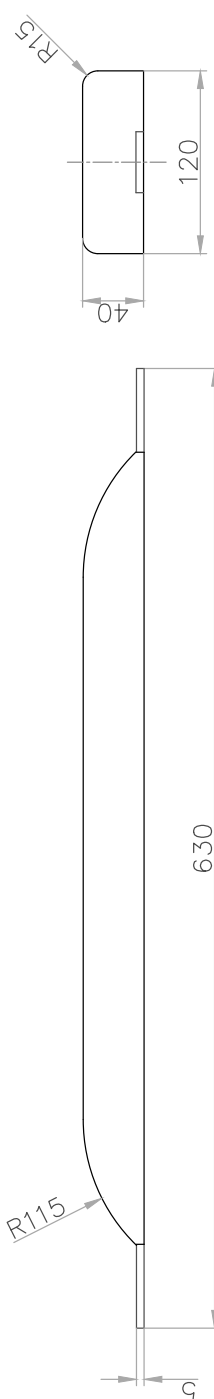
HELE ANODE TYPE 265-Z / HALVE ANODE TYPE 133-Z

<p>Zinc alloy specifications acc. US MIL Spec-A-1800 K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,10 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		0,005 max	Copper		0,005 max	Iron		0,006 max	Lead		0,10 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl inf@ampak.nl</p>	
Components	Impurities	Percentage (%)																									
Cadmium		0,025-0,07																									
Aluminum		0,10-0,5																									
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<p>AMPAK® CATHODIC PROTECTION</p>		<p>Other specifications are available on request</p> <p>Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>																									
<p>scale: n. t. s.</p>	<p>Art. No.: 3922197000</p>	<p>Weight: + / - 3%</p>	<p>ANODE TYPE 133-Z</p>																								
<p>drawn:</p>	<p>Dwg. No.: S 9538</p>	<p>Gen. Tol.: NACE SP0387</p>																									
<p>date:</p>	<p>Dim.: A-4</p>	<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>																									



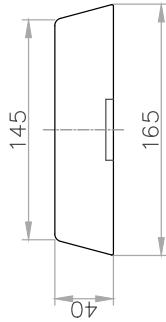
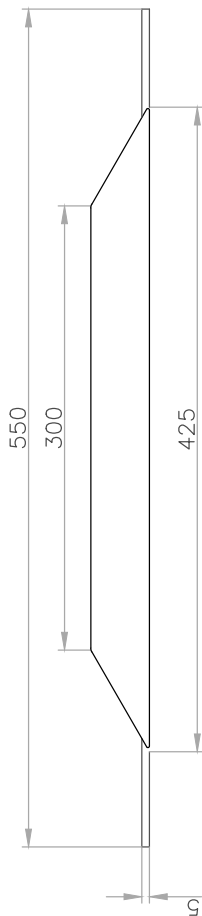
ZINC ANODE:
 net weight: 13,4 kg
 gross weight: 14,0 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-1800 K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: 1000 Ah nominal Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		0,005 max	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de</p>		<p>Other specifications are available on request</p> <p>Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>	
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Aluminum		0,10-0,5																											
Zinc		0,005 max																											
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Lead		0,006 max																											
Others total		0,10 max																											
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 323338000 Weight: + / - 3% Gen. Tol.: NACE SP0387</p>		<p>ANODE TYPE 134-Z</p>																									
<p>scale: n. t. s.</p>		<p>drawn: _____</p>		<p>date: _____</p>																									
<p>Dim.: A-4</p>		<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>																											

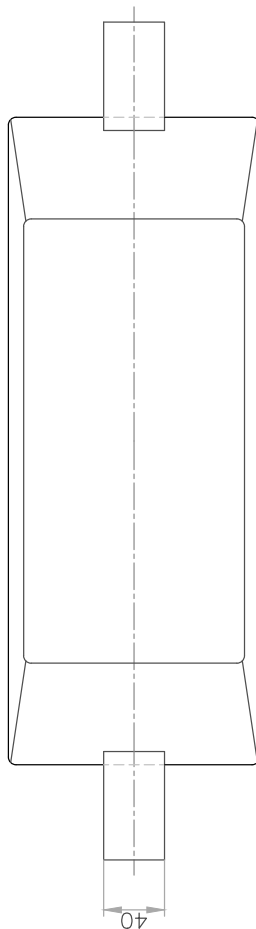


ZINC ANODE:
 nett weight 15,5 kg
 gross weight 16,1 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: nominal Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		0,005 max	Copper		0,005 max	Iron		0,006 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de</p>	
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Iron		0,006 max																									
Lead		0,006 max																									
Others total		0,10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 922199000 Weight: +/- 3% Gen. Tol.: NACE SP0387</p>																									
<p>scale: t.s.</p>		<p>ANODE TYPE 155-Z</p>																									
<p>drawn:</p>		<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>																									
<p>date:</p>		<p>Dim.: A-4</p>																									



ZINC ANODE:
 nett weight 16,0 kg
 gross weight 16,8 kg



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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s.

Art. No.: 322266000 Weight: + / - 3%

Dwg. No.: S 8113 Gen. Tol.: NACE SP0387

Dim.: A-4

drawn:

date:

Zinc alloy specifications acc. US MIL Spec-A-1800 K

Components Impurities Percentage (%)

Cadmium 0,025-0,07

Aluminum 0,10-0,5

Zinc 99,995 max

Copper 0,005 max

Iron 0,005 max

Lead 0,006 max

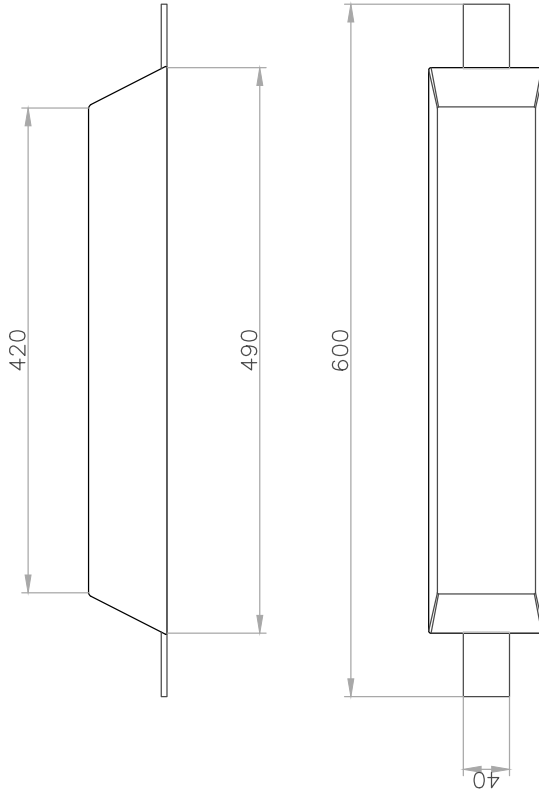
Others total 0,10 max

Electrochemical capacity: nominal

Solution potential: -1050 vs. Ag/AgCl (reference cell nominal (in seawater))

ANODE TYPE 160-Z-H

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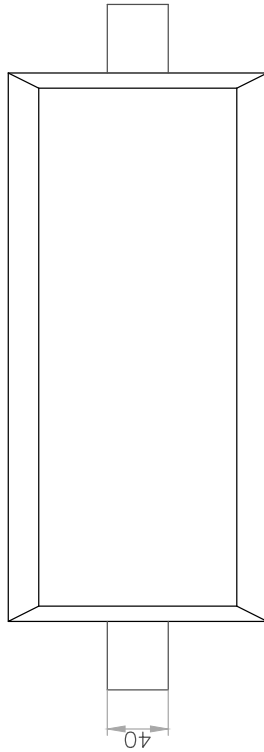
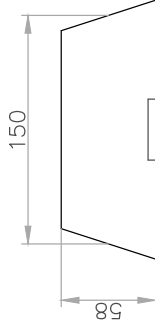
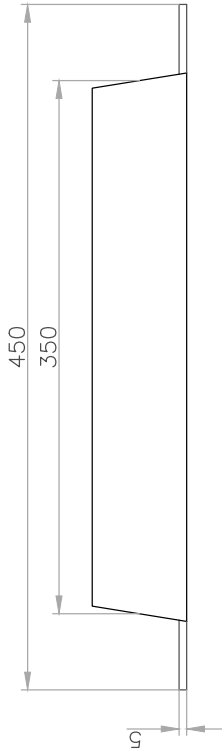


ZINC ANODE:
 nett weight 17,0 kg
 gross weight 18,0 kg

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 Note- All dimensions and weights are nominal. Dimension in mm
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Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de		Weight: + / - 3% Gen. Tol.: NACE SP0387																									
Art. No.: No.:S 11081		Dim.: A-4																									
drawn: F.J. te Beest		date: 21-5-2019																									
Zinc alloy specifications acc. US MIL Spec-A-18001K <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table>				Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		0,005 max	Copper		0,005 max	Iron		0,006 max	Lead		0,006 max	Others total		0,10 max
Components	Impurities	Percentage (%)																									
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Aluminum		0,10-0,5																									
Zinc		0,005 max																									
Copper		0,005 max																									
Iron		0,006 max																									
Lead		0,006 max																									
Others total		0,10 max																									
Electrochemical capacity: Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)																											
ANODE TYPE 170-Z-H																											
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ZINC ANODE:

nett weight 19,0 kg
gross weight 19,5 kg

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info@ampak.nl
info@ampak.de

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 326918000	Weight: + / - 3%
drawn:	Dwg. No.: S 11070	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 190-Z

Zinc alloy specifications acc. US MIL Spec-A-18001K

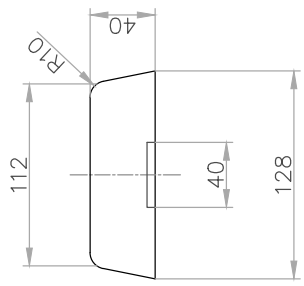
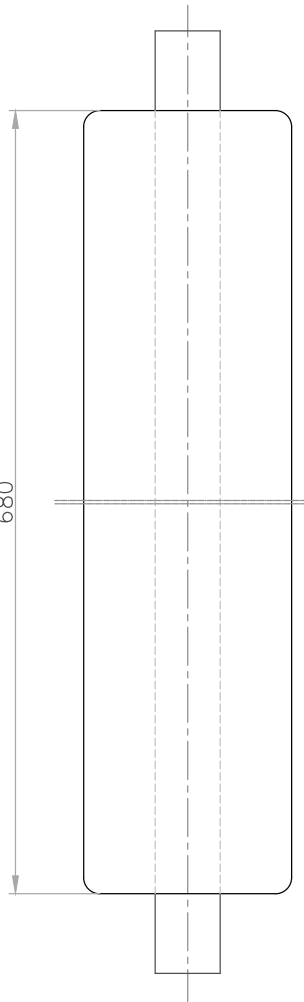
Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,975

Components	Impurities	Percentage (%)
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max

Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential: -1050 vs. Ag/AgCl

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680



780

ZINC ANODE:

net weight 21,7 kg
gross weight 22,4 kg

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info@ampak.de

Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

Art. No.: 922215000	Weight: + / - 3%
Dwg. No.: S 5617	Gen. Tol.: NACE SP0387
Dim.: A-4	

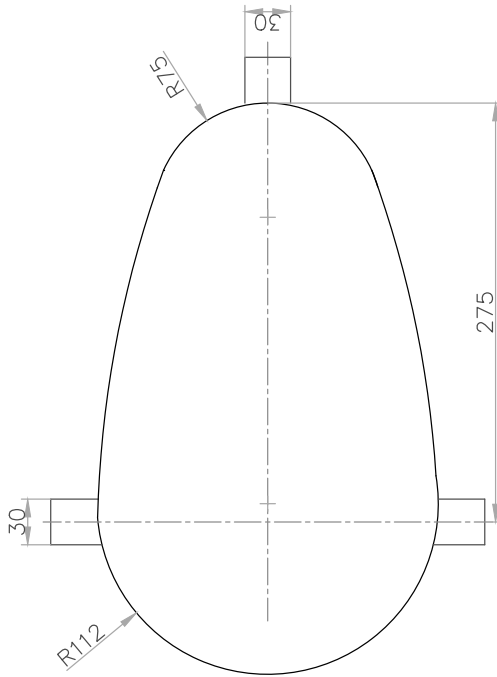
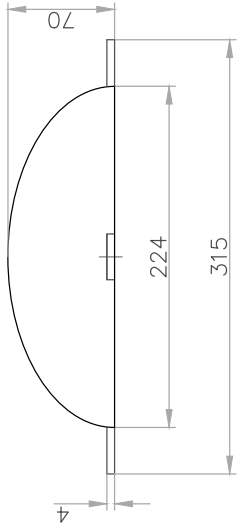
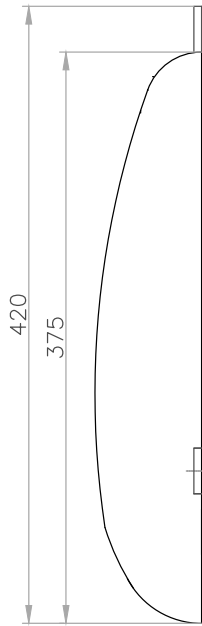
ANODE TYPE 217-Z

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		0,005 max
Copper		0,005 max
Iron		0,005 max
Lead		0,005 max
Others total		0,10 max

Electrochemical capacity: 10000 Ah nominal
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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ZINC ANODE:

nett weight 23,3 kg
gross weight 24,0 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,87-99,99
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max
Electrochemical capacity		1000-1100
Solution potential		-1050 vs. Ag/AgCl reference cell nominal (in seawater)

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info@ampak.nl
info@ampak.de

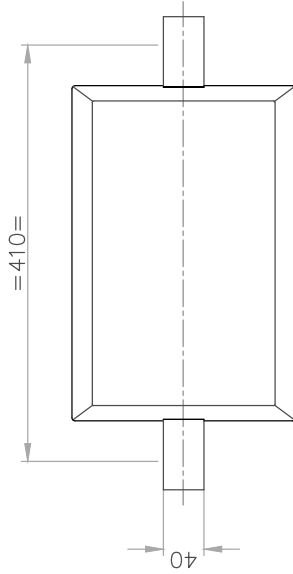
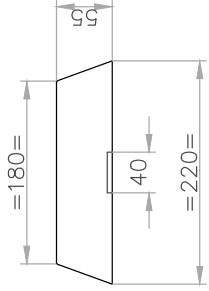
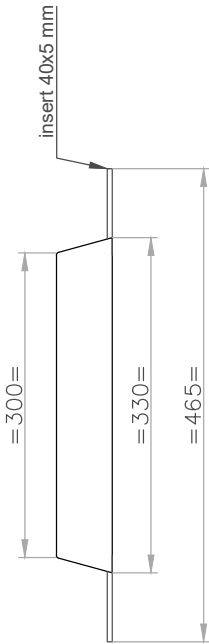
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922211000	Weight: +/- 3%
drawn:	Dwg. No.: S 4436	Gen. Tol: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 233-Z

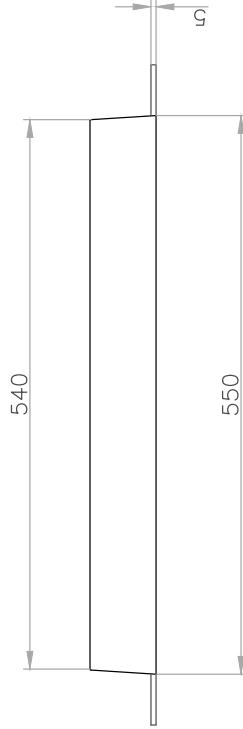
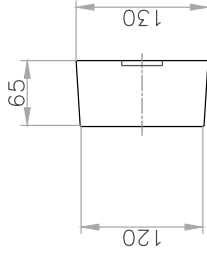
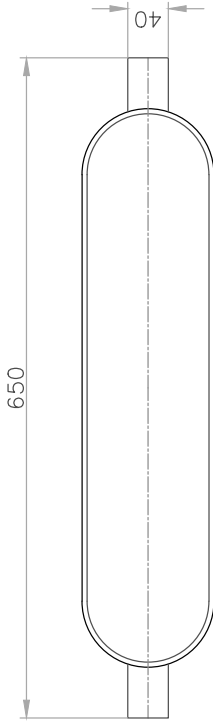
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ZINC ANODE:

nett weight 24,0 kg
gross weight 24,5 kg

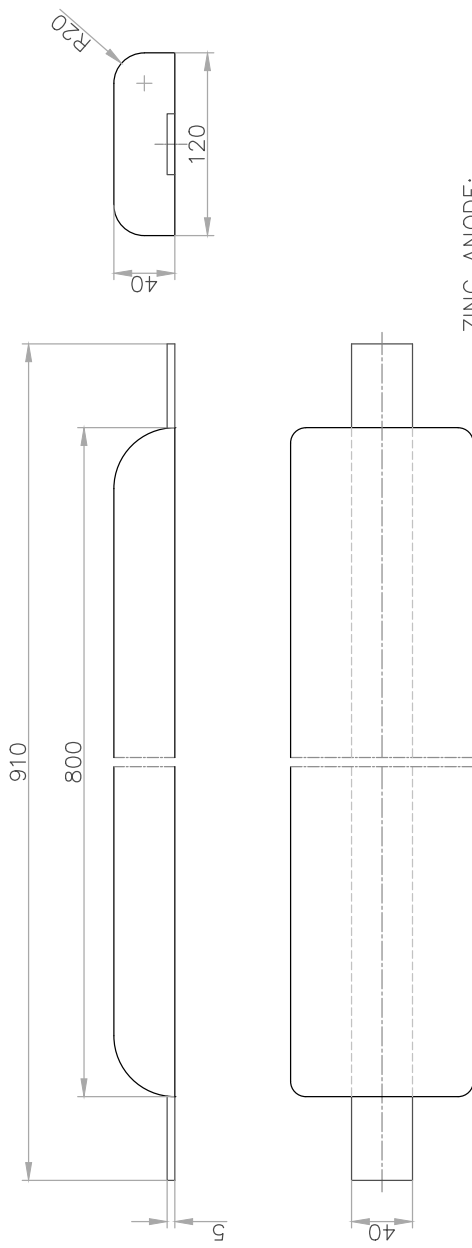
<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>99,975</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		99,975	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl inf@ampak.de</p>	
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Lead		0,006 max																									
Others total		0,10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: Dwg. No.:S 11071 Dim.:A-4</p>																									
<p>scale:n. t. s.</p>		<p>Weight: +/− 3% Gen. Tol.: NACE SP0387</p>																									
<p>drawn: date:</p>		<p>ANODE TYPE 240-Z</p>																									
<p>Other specifications are available on request</p> <p>Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>																											
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ZINC ANODE:

nett weight 25,0 kg
gross weight 26,5 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>99,975</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		99,975	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel: +31 (0) 345-633355 Fax: +31 (0) 345-633344 @ampak.nl info@ampak.nl</p>	
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<p>AMPAK® CATHODIC PROTECTION</p>		<p>Other specifications are available on request</p> <p>Note: All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>																									
<p>scale: n.t.s.</p>		<p>Art. No.: 926032000 Weight: +/- 3%</p>																									
<p>drawn:</p>		<p>Dwg. No.: S 10921 Gen. Tol.: NACE SP0387</p>																									
<p>date:</p>		<p>Dim.: A-4 ANODE TYPE 250-Z</p>																									
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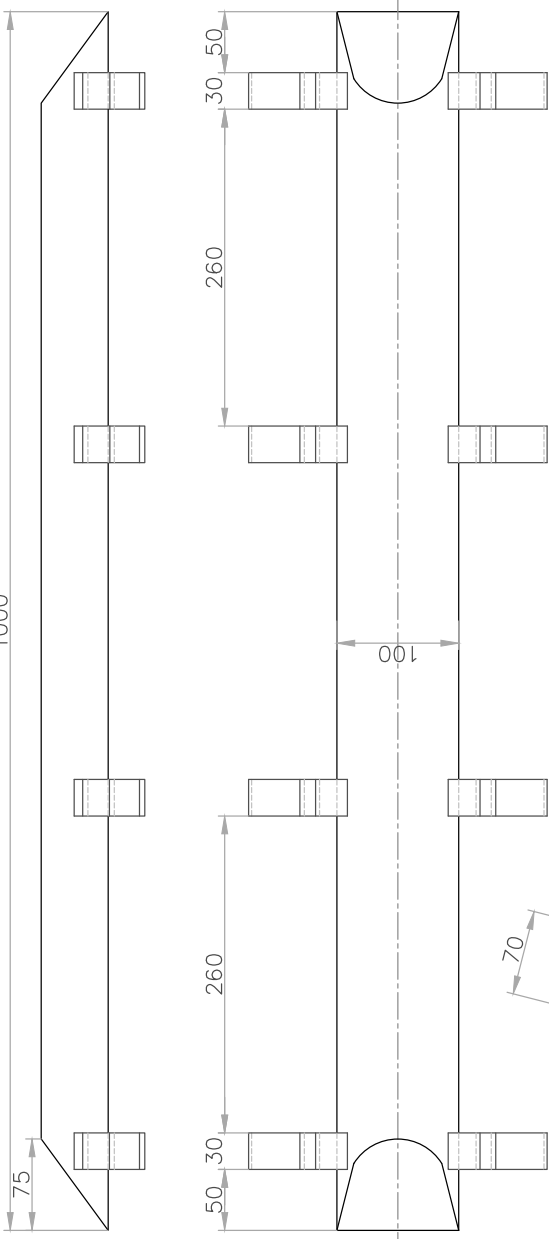


ZINC ANODE:

nett weight 26,0 kg
gross weight 26,7 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>99,975</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		99,975	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel: +31 (0) 345-633355 Fax: +31 (0) 345-633344 info@ampak.nl info@ampak.de</p>	
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Lead		0,006 max																									
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<p>AMPAK® CATHODIC PROTECTION</p>		<p>Other specifications are available on request</p>																									
<p>scale: n. t. s.</p>		<p>Art. No.: 922202000 Weight: + / - 3%</p>																									
<p>drawn: _____</p>		<p>Gen. Tol.: NACE SP0387</p>																									
<p>date: _____</p>		<p>ANODE TYPE 260-Z</p>																									
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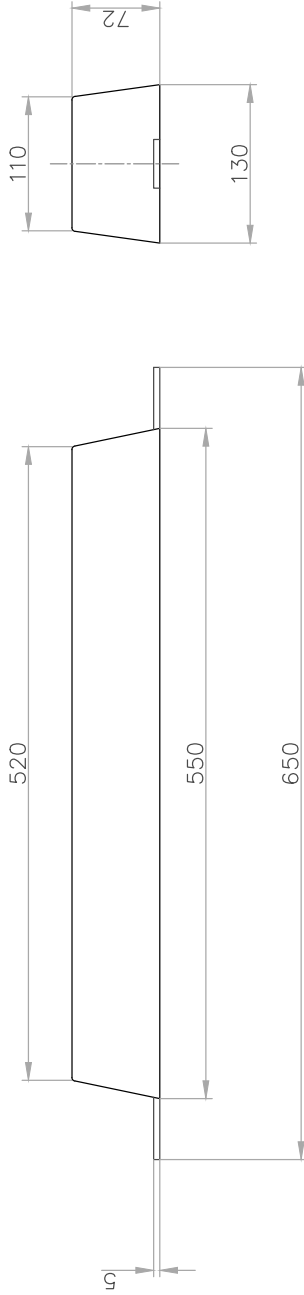
1000



ZINC ANODE:

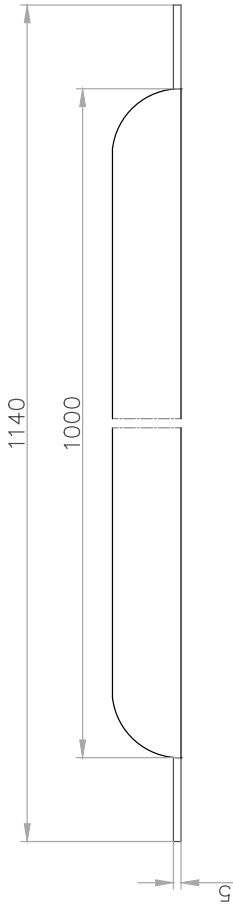
nett weight 26,5 kg
gross weight 28,0 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K Components Impurities Percentage (%) Cadmium 0,025-0,07 Aluminum 0,10-0,5 Zinc 0,005 max Copper 0,005 max Iron 0,005 max Lead 0,006 max Others total 0,10 max Electrochemical potential Solution potential -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>		<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de</p>		<p>Other specifications are available on request Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>	
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 322205000 Weight: +/− 3% Gen.: NACE SP0387</p>		<p>ANODE TYPE 265-Z RUDDER</p>	
<p>scale:n. t. s.</p>		<p>drawn: t. s.</p>		<p>date:</p>	
<p>Dwg. No.: S 9444</p>		<p>Dim.: A-4</p>		<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>	



ZINC ANODE:
 nett weight 31,0 Kg
 gross weight 32,0 Kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0.025-0.07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0.10-0.5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>0.005 max</td> </tr> <tr> <td>Copper</td> <td></td> <td>0.005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0.005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0.005 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0.10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		Components	Impurities	Percentage (%)	Cadmium		0.025-0.07	Aluminum		0.10-0.5	Zinc		0.005 max	Copper		0.005 max	Iron		0.005 max	Lead		0.005 max	Others total		0.10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl http://www.ampak.nl info@ampak.nl</p>	
Components	Impurities	Percentage (%)																									
Cadmium		0.025-0.07																									
Aluminum		0.10-0.5																									
Zinc		0.005 max																									
Copper		0.005 max																									
Iron		0.005 max																									
Lead		0.005 max																									
Others total		0.10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 11072</p>	<p>Weight: +/− 3%</p>																								
<p>scale: t.s.</p>		<p>Gen. Tol.: NACE SP0387</p>	<p>ANODE TYPE 310-Z</p>																								
<p>drawn: _____</p>		<p>Dim.: A-4</p>	<p>Other specifications are available on request</p>																								
<p>date: _____</p>		<p>Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>																									



ZINC ANODE:

nett weight 32,0 kg
gross weight 33,0 kg

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info@ampak.de

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.

Art. No.: 922210000 | Weight: + / - 3%

Dwg. No.: S 5620 Gen. Tol.: NACE SP0387

drawn:

Dim.: A-4

date:

ANODE TYPE 320-Z

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components Impurities Percentage (%)

Cadmium 0,025-0,07

Aluminum 0,10-0,5

Zinc 99,975

Copper 0,005 max

Iron 0,005 max

Lead 0,006 max

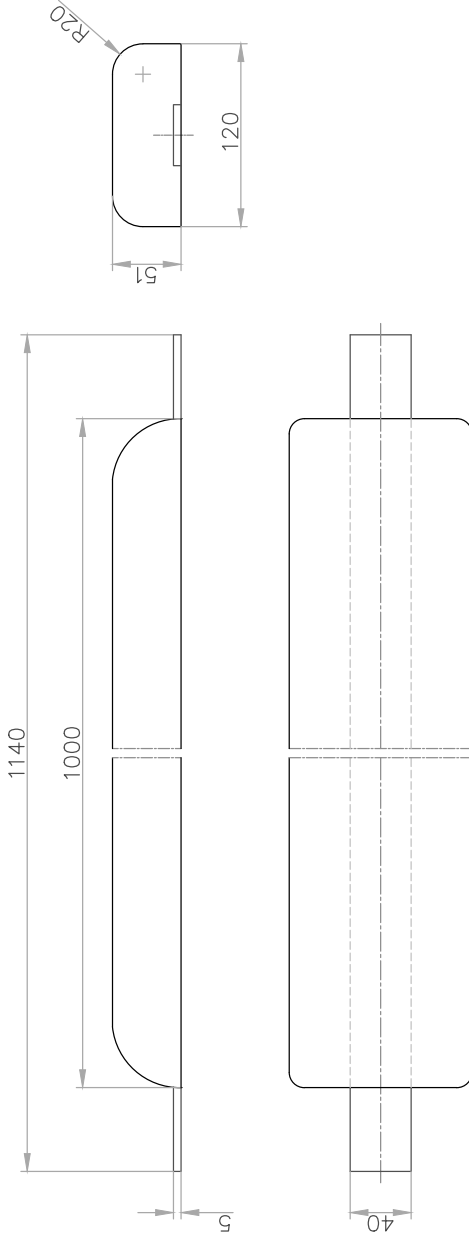
Others total 0,10 max

Electrochemical capacity

Solution potential

-1050 vs. Ag/AgCl reference cell nominal (in seawater)

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ZINC ANODE:

nett weight 40,0 kg
gross weight 41,0 kg

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inf@ampak.de

Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.
drawn:
date:

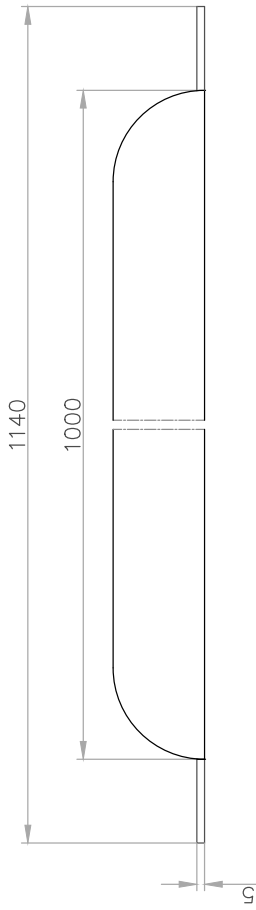
Art. No.: 329031000 Weight: + / - 3%
Dwg. No.: S 11096 Gen. Tol.: NACE SP0387
Dim.: A-4

ANODE TYPE 400-Z

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0.025-0.07
Aluminum		0.10-0.5
Zinc		99.995
Copper		0.005 max
Iron		0.005 max
Lead		0.006 max
Others total		0.10 max
Electrochemical capacity		1.0 min. nominal
Solution potential		-1050 vs. Ag/AgCl reference cell nominal (in seawater)

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ZINC ANODE:

nett weight 48,5 kg
gross weight 49,5 kg

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inf@ampak.de

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n. t. s.
drawn:
date:

Art. No.: 322213000 | Weight: + / - 3%
Dwg. No.: S 5569A | Gen. Tol.: NACE SP0387
Dim.: A-4

ANODE TYPE 485-Z

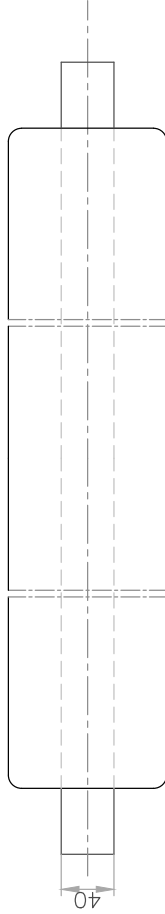
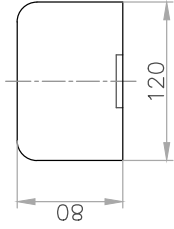
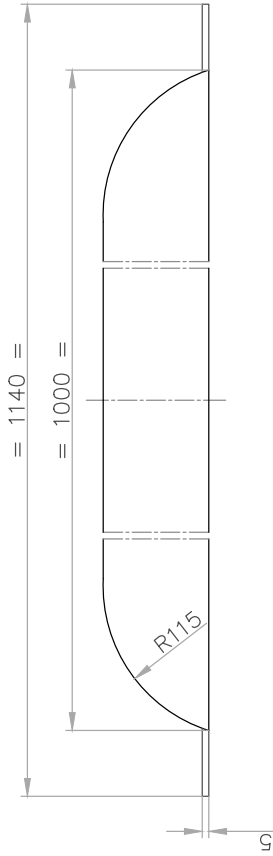
Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,87-99,99

Component	Limit
Copper	0,005 max
Iron	0,005 max
Lead	0,006 max
Others total	0,10 max

Electrochemical capacity: 1000 Ah nominal
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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ZINC ANODE:

nett weight 62,0 kg

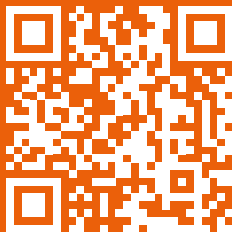
gross weight 63,3 kg

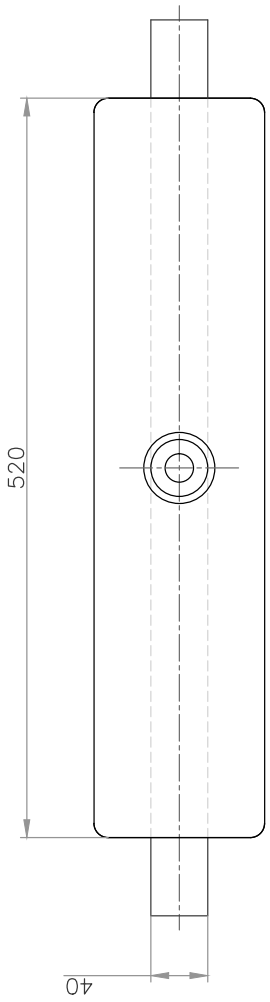
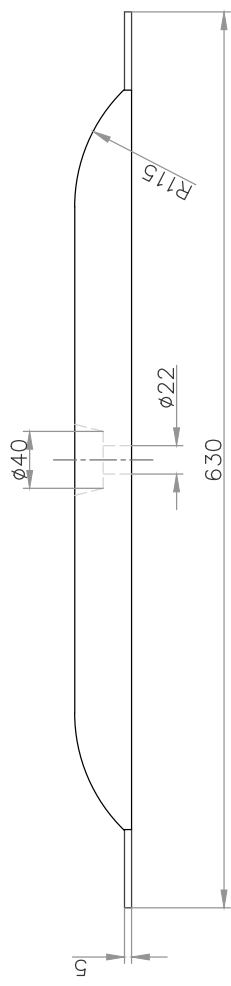
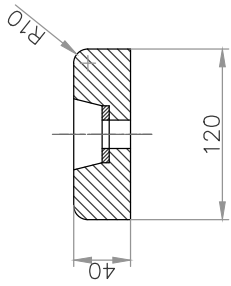
<p>Zinc alloy specifications acc. US MIL Spec-A-1800 K</p> <p>Components Impurities Percentage (%)</p> <p>Cadmium 0,025-0,07</p> <p>Aluminum 0,10-0,5</p> <p>Zinc 99,975-99,995</p> <p>Copper 0,005 max</p> <p>Iron 0,005 max</p> <p>Lead 0,006 max</p> <p>Others total 0,10 max</p> <p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		<p>Leerdam, The Netherlands</p> <p>P.O. 71, 4140 AB Leerdam</p> <p>Tel. +31 (0) 345-633355</p> <p>Fax +31 (0) 345-633344</p> <p>info@ampak.nl</p> <p>inf@ampak.de</p>		<p>Other specifications are available on request</p> <p>Note: All dimensions and weights are nominal. Dimension in mm</p> <p>All data is subject to change without prior notice</p> <p>Anode can also be provided with a coated backside</p>	
<p>AMPAK®</p> <p>CATHODIC PROTECTION</p>		<p>Art. No.: 322214000 Weight: + / - 3%</p> <p>Dwg. No.: S 4892 Gen. Tol.: NACE SP0387</p>		<p>ANODE TYPE 620-Z</p>	
<p>scale: n.t.s.</p> <p>drawn: _____</p> <p>date: _____</p>		<p>Dim.: A-4</p>		<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>	

ALUMINIUM HULL M ANODES

The next pages gives only a selection of types we have available.
The length of the inserts can vary on your request, as long as they are longer than the casted anode body.

For contact scan QR-code





ALUMINIUM ANODE
 nett weight 6,2 kg
 gross weight 6,8 kg

Aluminium alloy specification
 Components Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Indium 0,01 - 0,05
 Aluminium
 Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max

Electrochemical capacity:
 Solution potential: 2700 Ah/Kg nominal
 -1100 mV (vs. Ag/AgCl) reference cell nominal (in seawater)

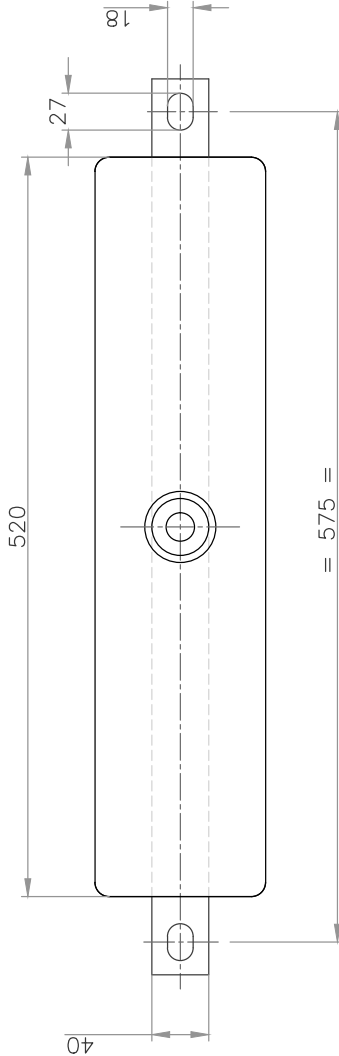
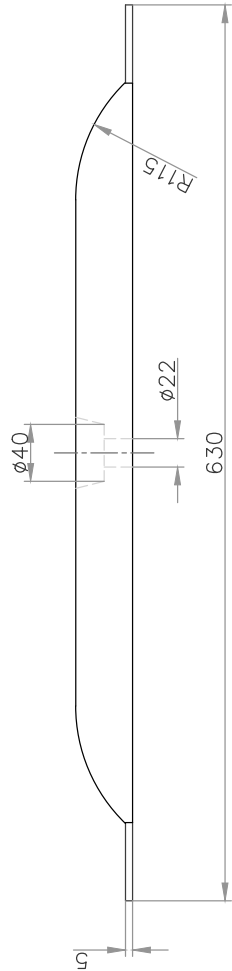
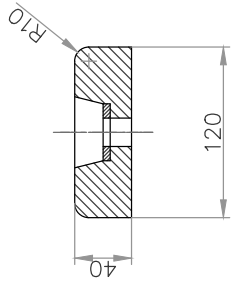
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 info@ampak.de

Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:927150000	Weight: +/− 3%
drawn:	Dwg. No.:S 11258	Ben. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE 62-AL-M

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ALUMINIUM ANODE
 nett weight 6,2 kg
 gross weight 6,8 kg

Aluminium alloy specification
 Components Impurities
 Silicon 0,10 - 0,35
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Indium 0,01 - 0,05
 Aluminium
 Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max

Percentages (%)
 0,10 - 0,35
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

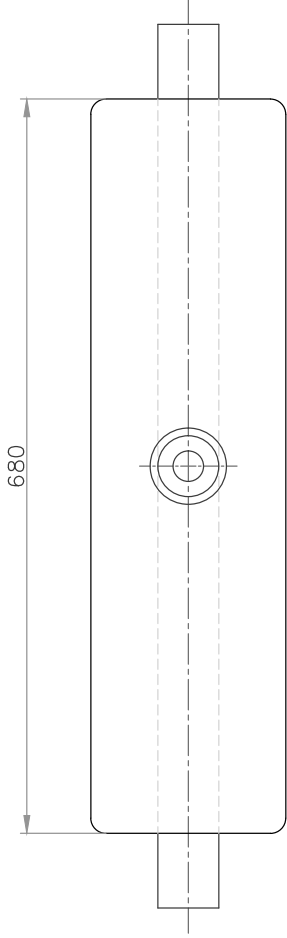
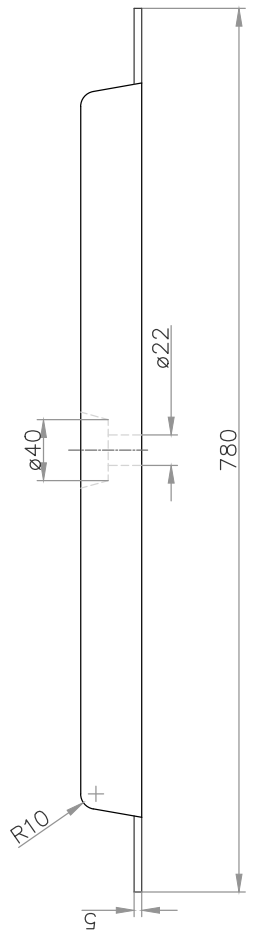
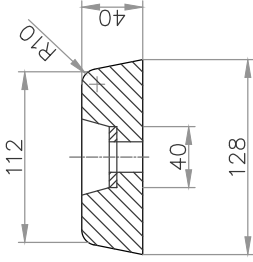
Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV (vs. Ag/AgCl) reference cell nominal (in seawater)

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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922544000	Weight: +/− 3%
drawn:	Dwg. No.:S 10843	ben. Tol.: NACE SP0387
date:	Dim.:A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.
ANODE TYPE 62-AL-M-B		



ALUMINIUM ANODE:

nett weight 8,7 kg
gross weight 9,3 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	0,01 - 0,05

Copper
Iron
Others each
0,02 Max

scale:	n. t. s.
drawn:	Art. No.: 922528000
date:	Dwg. No.: S 7617
	Dim.: A-4

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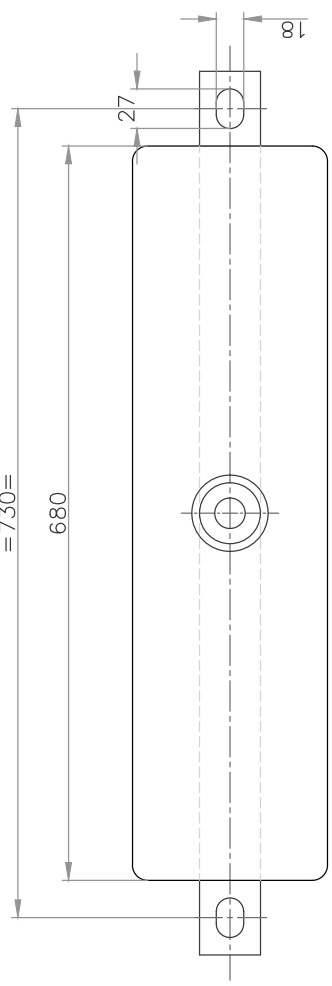
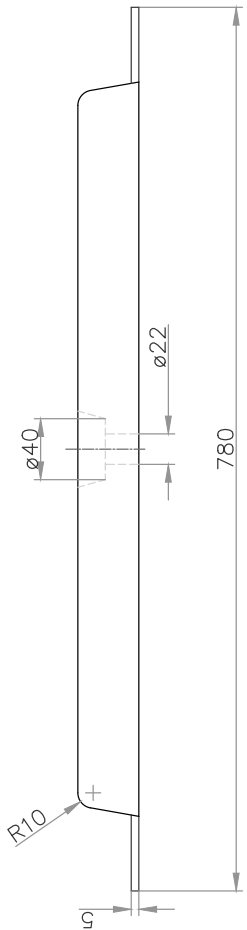
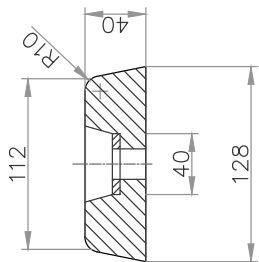
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE 87-AL-M

Weight: +/- 3%
Ben. Tol.: NACE SP0387
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Electrochemical capacity:
Solution potential:
-1100 mV (vs. Ag/AgCl) reference cell nominal (in seawater)



ALUMINIUM ANODE:

nett weight 8,7 kg
gross weight 9,3 kg

Aluminium alloy specification

Components	Impurities
Copper	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	0,10 - 0,15
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

scale: n. t. s.	Art. No.: 92644-3000	Weight: + / - 3%
drawn:	Dwg. No.: S 10775	ben. Tol.: NACE SP0387
date:	Dim.: A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

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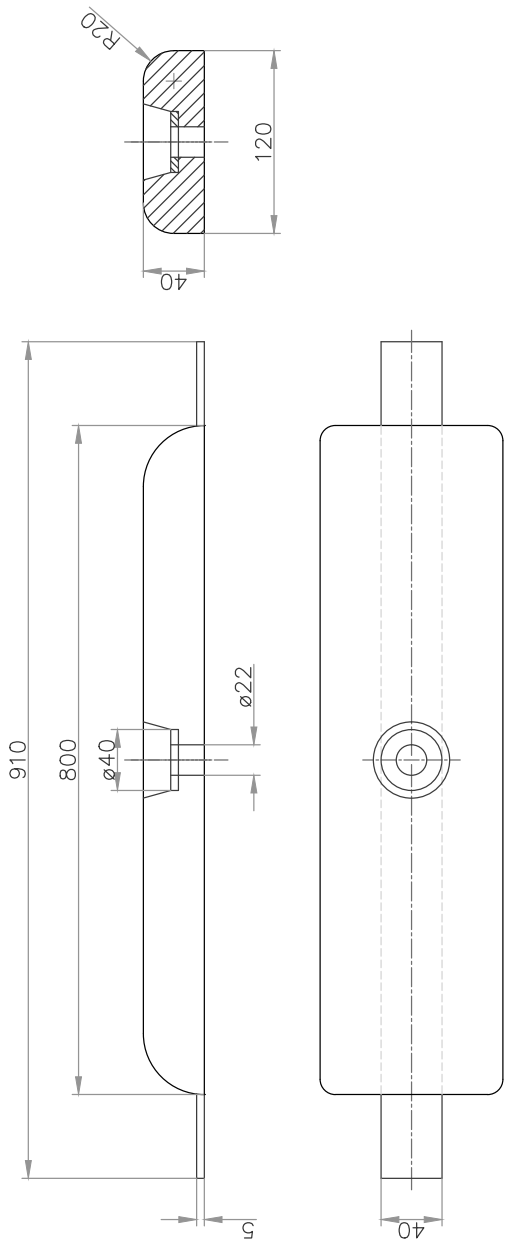
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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE 87-AL-M-B

Electrochemical capacity: 2700 Ah/Kg nominal
Solution potential: -1100 mV (vs. Ag/AgCl) reference cell nominal (in seawater)



ALUMINIUM ANODE:

nett weight 10,5 kg
gross weight 11,2 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iron	0,01 - 0,05
Indium	0,01 Max
Aluminium	99,85% Purity
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
2700 Ah/Kg nominal
-1100 mV (vs. Ag/AgCl) reference cell nominal (in seawater)

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Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
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Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922493000	Weight: +/− 3%
drawn:	Dwg. No.:S 7615	Ben. Tol: NACE SP0387
date:	Dim.:A-4	

ANODE TYPE 105-AL-M

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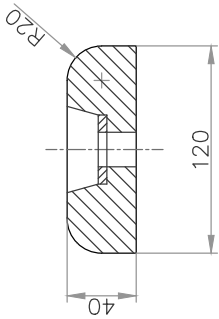
910

800

ø40

ø22

= 850 =



ALUMINIUM ANODE:

nett weight 10,5 kg

gross weight 11,2 kg

Aluminium alloy specification

Components	Impurities
Zinc	0,10 - 0,35
Magnesium	2,0 - 5,0
Titanium	0,01 - 0,05
Iron	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)

Copper 0,02 Max
Iron 0,10 - 0,15
Others each 0,02 Max

Electrochemical capacity: 2700 Ah/Kg nominal
 Solution potential: -1100 mV (vs. Ag/AgCl) reference cell nominal (in seawater)

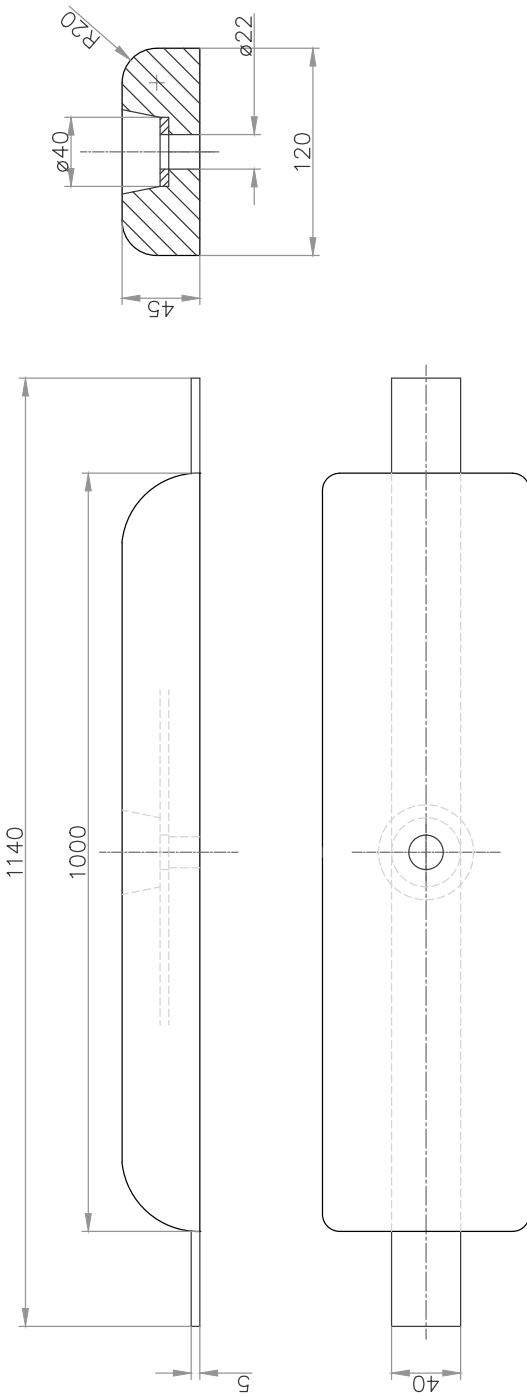
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 926383000	Weight: + / - 3%
drawn:	Dwg. No.: S 10747	Ben. Tol.: NACE SP0387
date:	Dim.: A-4	ANODE TYPE 105-AL-M-B

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ALUMINIUM ANODE:

nett weight 13,0 kg
gross weight 14,0 kg

Aluminium alloy specification

Components	Impurities
Zinc	0,10 - 0,15
Titanium	2,0 - 5,0
Iron	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	99,85% (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:

2700 Ah/Kg nominal
-1100 mV (vs. Ag/AgCl) reference cell nominal (in seawater)

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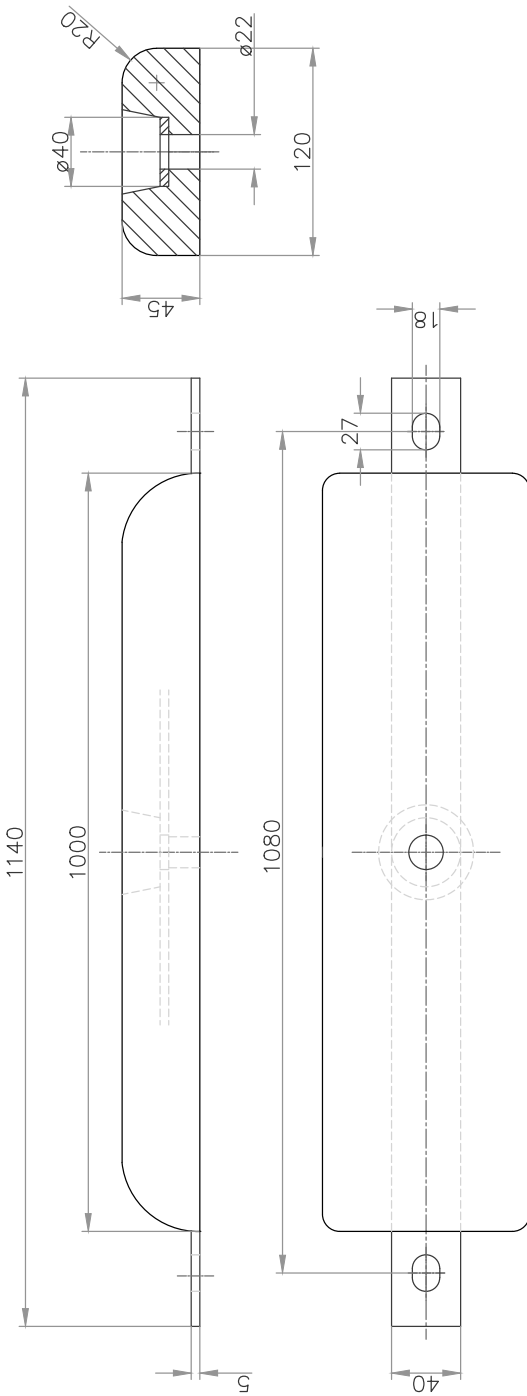
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info@ampak.de

Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:923205000	Weight: +/− 3%
drawn:	Dwg. No.:S 8251	Ben. Tol.: NACE SP0387
date:	Dim.:A-4	

ANODE TYPE 130-AL-M

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ALUMINIUM ANODE:

nett weight 13,0 kg
gross weight 14,0 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
-1100 mV (vs. Ag/AgCl) reference cell nominal (in seawater)

Art. No.: 1927151000	Weight: +/− 3%
Dwg. No.: S 11259	Ben. Tol.: NACE SP0387
scale: n. t. s.	drawn: _____
date: _____	

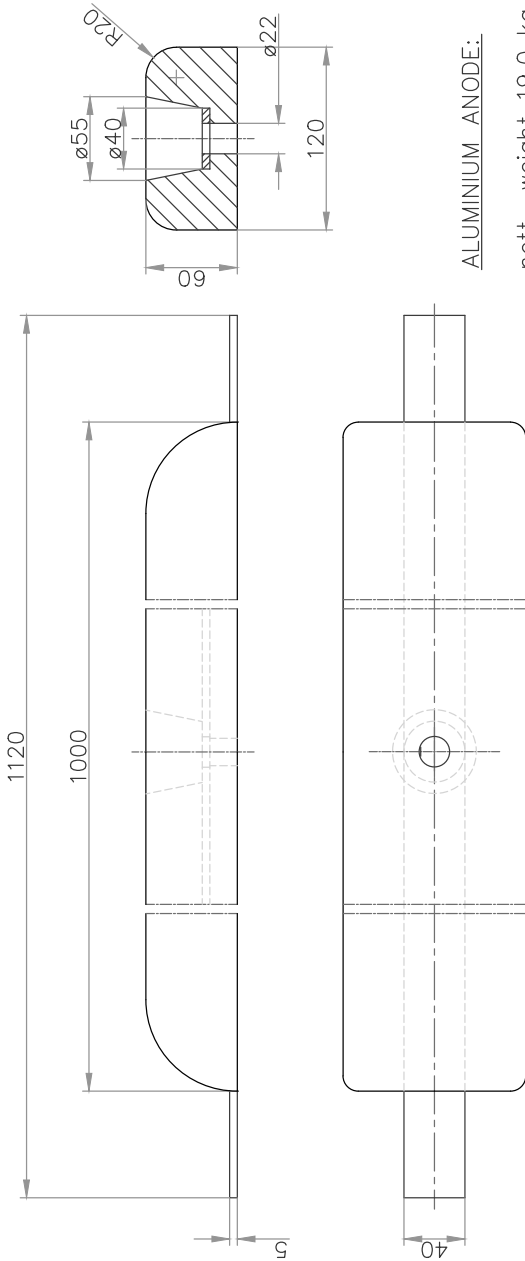
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE 130-AL-M-B

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ALUMINIUM ANODE:

nett weight 19,0 kg
gross weight 20,0 kg

Aluminium alloy specification
Components
 Silicon 0,10 - 0,15
 Iron 2,0 - 6,0
 Zinc 0,01 - 0,05
 Titanium 0,01 - 0,05
 Indium 0,02 Max
 Aluminium 99,85% Purity
 Copper 0,10 - 0,15
 Iron 0,02 Max
 Others each
 Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV (vs. Ag/AgCl) reference cell nominal (in seawater)

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Other specifications are available on request

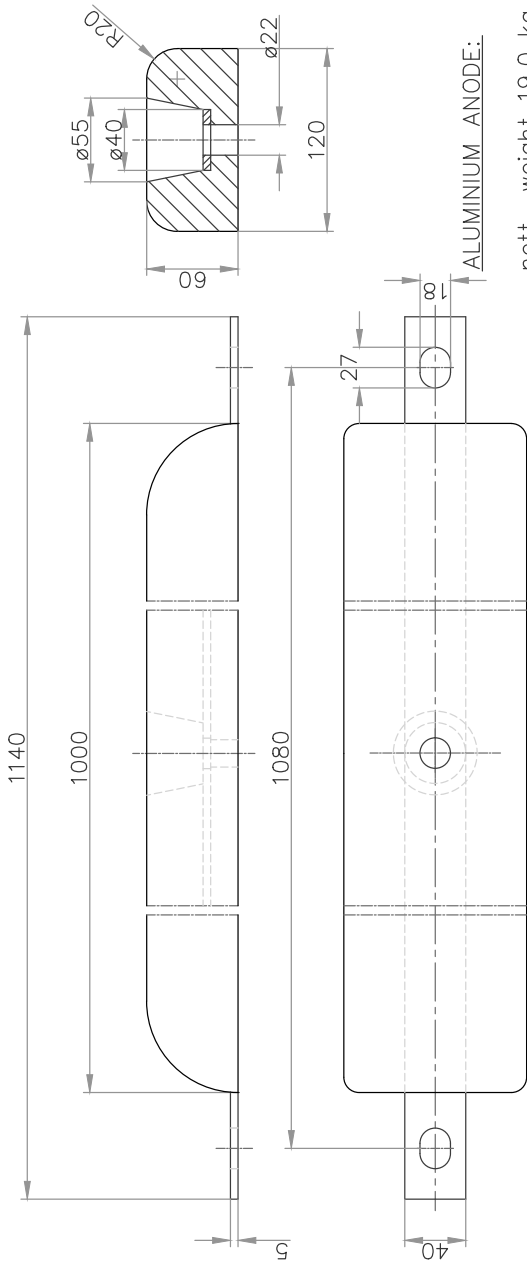
Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t.s.
 drawn:
 date:

Art. No.:922532000 Weight: +/− 3%
 Dwg. No.:S 8198 Ben. Tol.: NACE SP0387
 Dim.:A-4

ANODE TYPE 190-AL-M

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ALUMINIUM ANODE:

nett weight 19,0 kg
gross weight 20,0 kg

Aluminium alloy specification
 Components Impurities
 Silicon 0,10 - 0,35
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Indium 0,01 - 0,05
 Aluminium
 Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max
 Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV (vs. Ag/AgCl) reference cell nominal (in seawater)

Percentages (%)
 0,10 - 0,35
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 Indium (99,95% Purity)
 0,02 Max
 0,10 - 0,15
 0,02 Max

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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

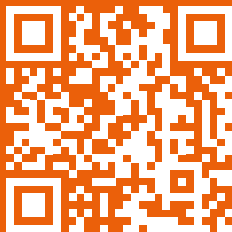
scale:n. t.s.	Art. No.:926399000	Weight: +/− 3%
drawn:	Dwg. No.:S 11258	ben. Tol.: NACE SP0387
date:	Dim.:A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

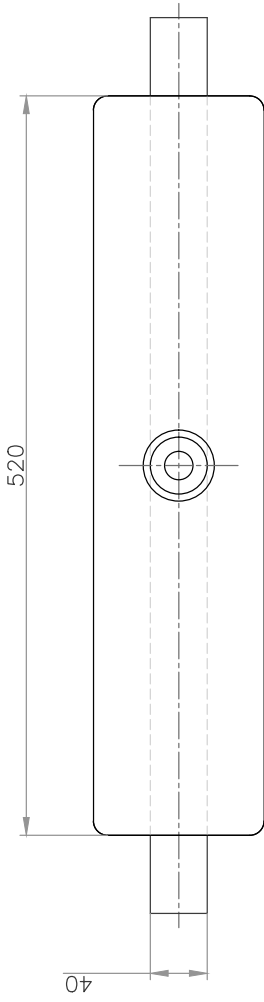
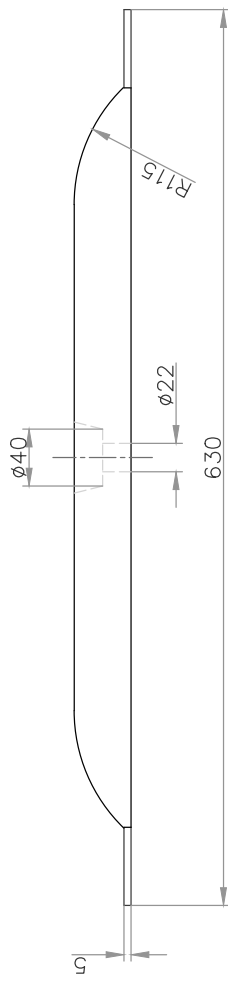
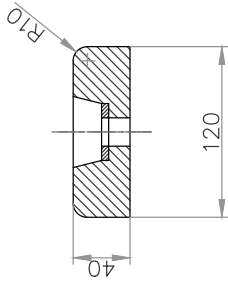
ANODE TYPE 190-AL-1M-B

ZINC HULL M ANODES

The next pages gives only a selection of types we have available.
The length of the inserts can vary on your request, as long as they are longer than the casted anode body.

For contact scan QR-code

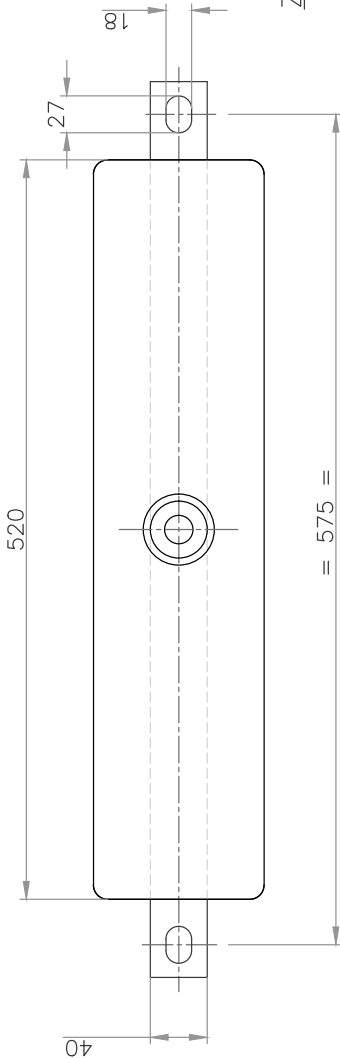
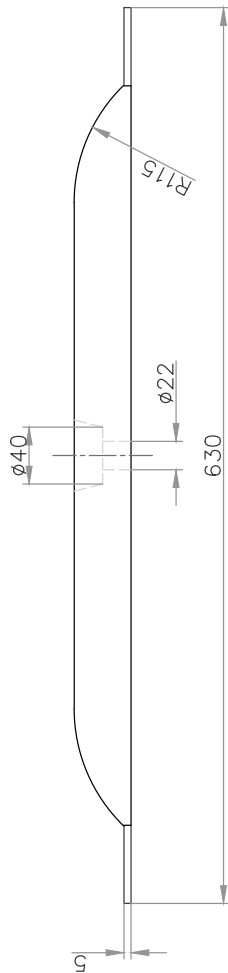
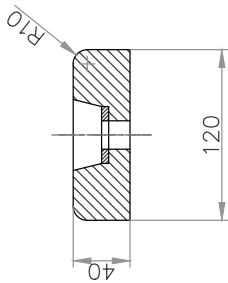




ZINC ANODE:

nett weight 15,5 kg
gross weight 16,1 kg

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<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p>		<p>Art. No.: 927152000</p>		<p>Weight: + / - 3%</p>	
<p>Components Impurities</p>		<p>Dwg. No.: S 11261</p>		<p>Gen. Tol.: NACE SP0387</p>	
<p>Cadmium 0,025-0,07</p>		<p>scale: t.s.</p>		<p>ANODE TYPE 155-Z-M</p>	
<p>Aluminum 0,10-0,5</p>		<p>drawn:</p>		<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>	
<p>Zinc 99,80-99,90</p>		<p>date:</p>		<p>Station potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>	
<p>Copper 0,005 max</p>		<p>Iron 0,005 max</p>		<p>Electrochemical capacity: 0,10 max</p>	
<p>Lead 0,006 max</p>		<p>Others total 0,10 max</p>		<p>Station potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>	



ZINC ANODE:

nett weight 15,5 kg
gross weight 16,1 kg

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE 155-Z-M-B

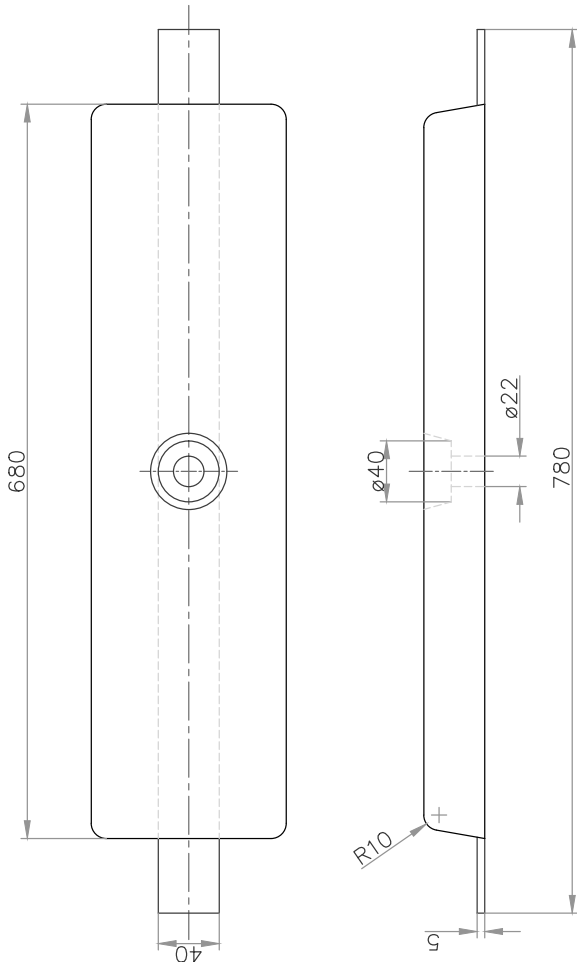
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scale:n. t.s.	Art. No.: 927153000	Weight: +/− 3%
drawn:	Dwg. No.: S 11262	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Iron 0,005 max
Lead 0,005 max
Others total 0,10 max

Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)
Station potential:

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ZINC ANODE:

nett weight 21,7 kg
gross weight 22,4 kg

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Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

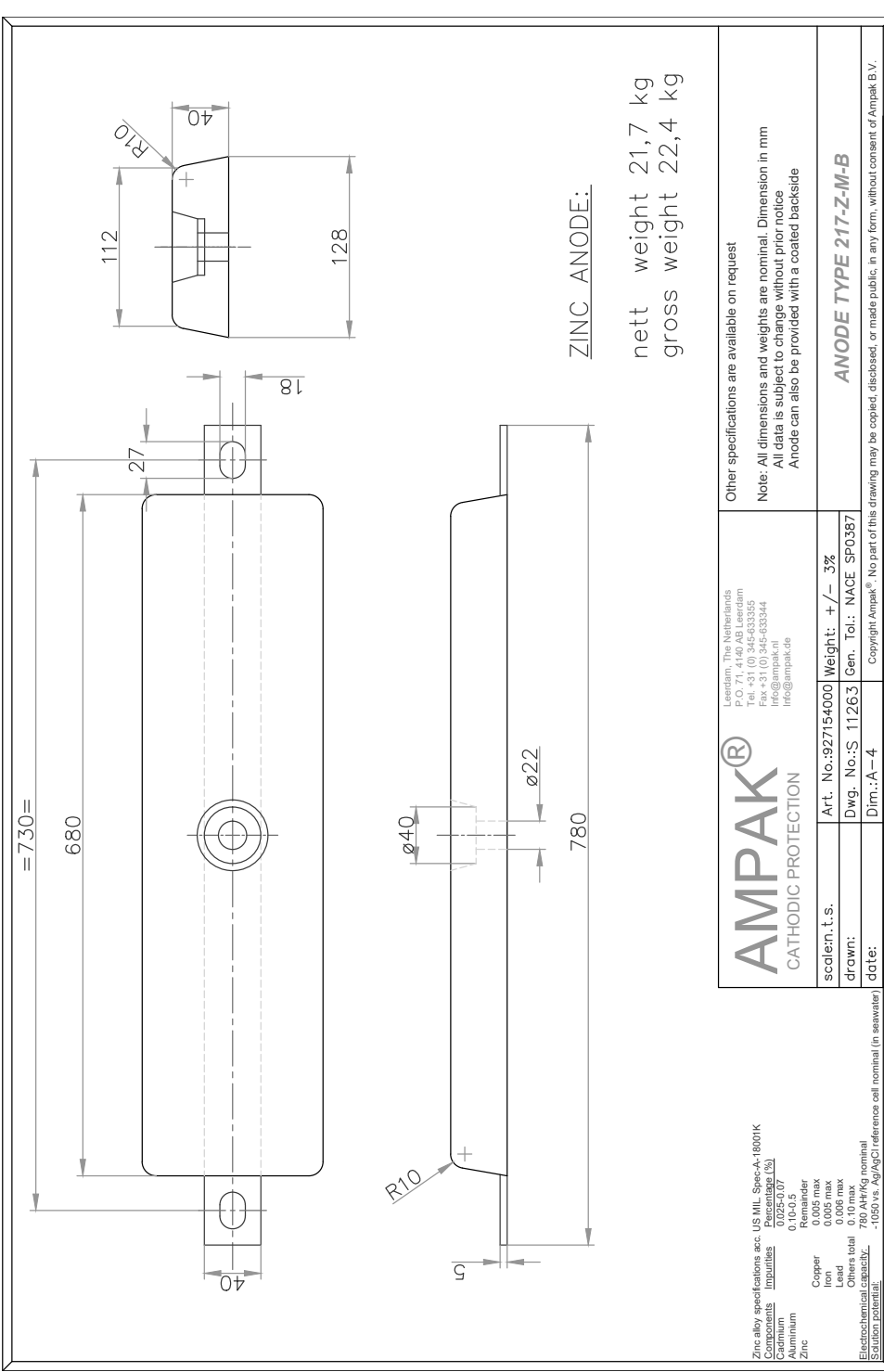
scale: n. t. s.	Art. No.: 322269000	Weight: + / - 3%
drawn:	Dwg. No.: S 7618	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 217-Z-M

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,87-99,99
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max
Electrochemical capacity:		1050 v. Ag/AgCl
Standard potential:		-1050 v. Ag/AgCl (reference cell nominal (in seawater))

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ZINC ANODE:

nett weight 21,7 kg
gross weight 22,4 kg

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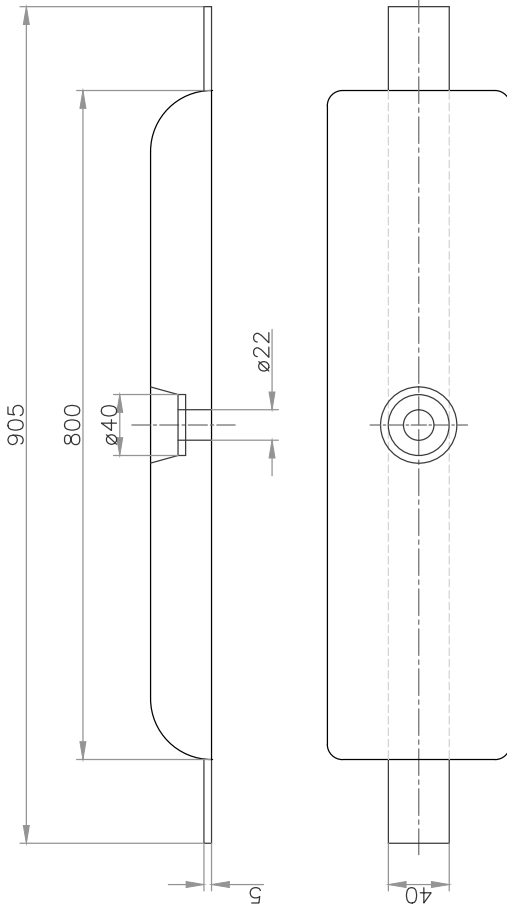
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 927154000	Weight: + / - 3%
drawn:	Dwg. No.: S 11263	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

Zinc alloy specifications acc. US MIL Spec-A-18001K		
Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,87-99,99
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max
Electrochemical capacity:		1000 v. Ag/AgCl reference cell nominal (in seawater)
Standard potential:		

ANODE TYPE 217-Z-M-B

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ZINC ANODE:

nett weight 26,0 kg
gross weight 26,7 kg

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.
drawn:
date:

Art. No.: 322267000 Weight: + / - 3%
Dwg. No.: S 7616 Gen. Tol.: NACE SP0387
Dim.: A-4

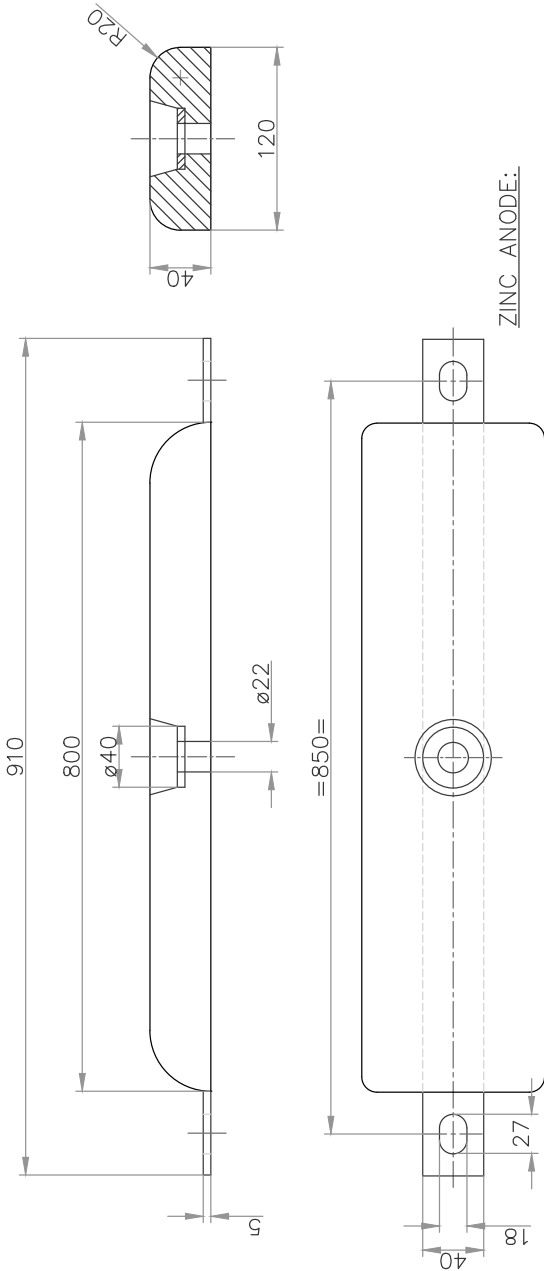
ANODE TYPE 260-Z-M

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc 99,975-99,995

Copper 0,005 max
Iron 0,005 max
Lead 0,006 max
Others total 0,10 max

Electrochemical capacity
Station potential
-1050 vs. Ag/AgCl reference cell nominal (in seawater)

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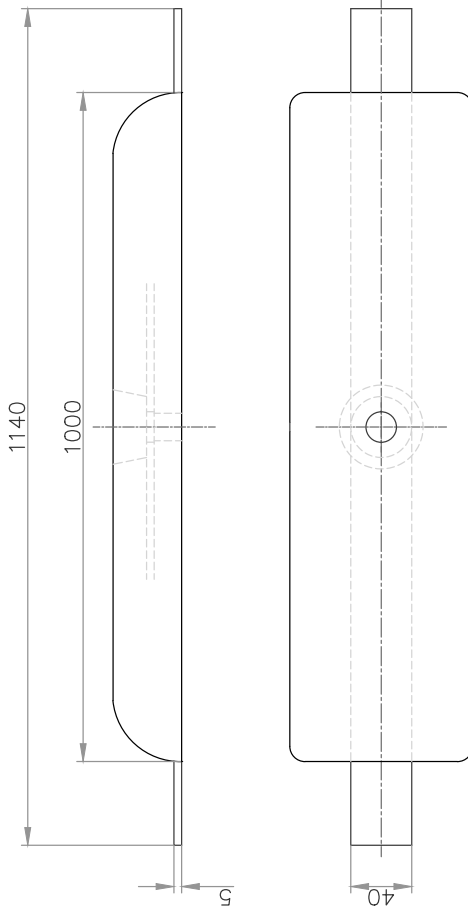
ZINC ANODE:

nett weight 26,0 kg
gross weight 26,7 kg

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Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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Zinc alloy specifications acc. US MIL Spec-A-18001K Components Impurities Percentage (%) Cadmium 0,025-0,07 Aluminum 0,10-0,5 Zinc 99,995 max		Copper 0,005 max Iron 0,005 max Lead 0,006 max Others total 0,10 max Electrochemical capacity: -1050 v.e. Ag/AgCl reference cell nominal (in seawater) Standard potential:	
scale: n. t. s. drawn:		date:	
ANODE TYPE 260-Z-IM-B			



ZINC ANODE:

nett weight 32,0 kg
gross weight 33,0 kg

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All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 922268000	Weight: + / - 3%
drawn:	Dwg. No.: S 8252	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 320-Z-M

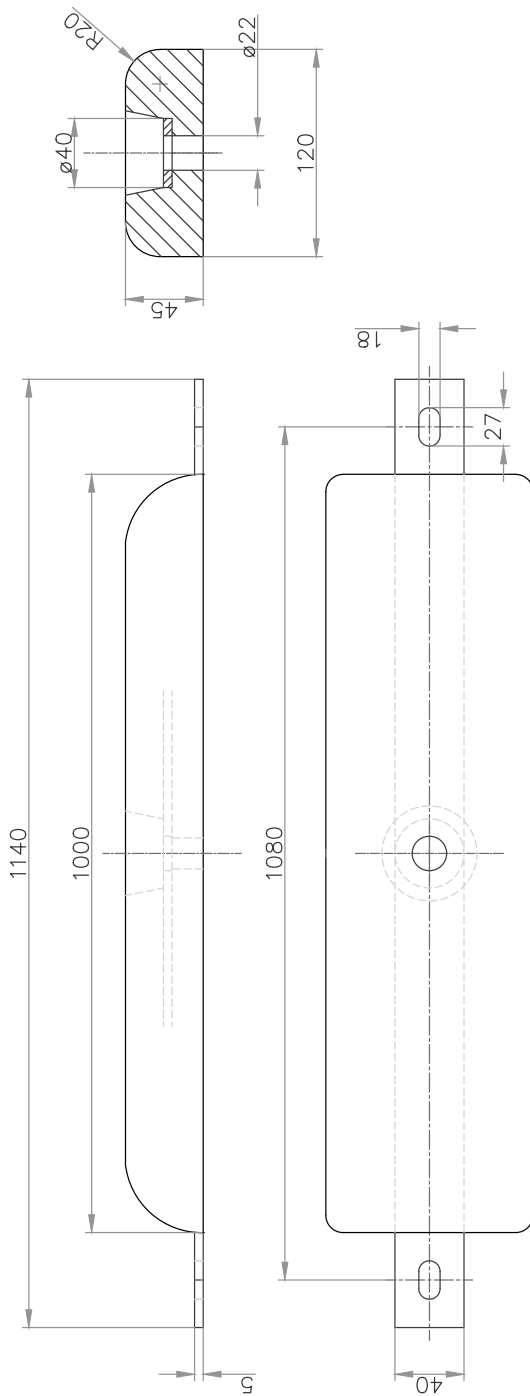
Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,875-99,825

Component	Limit
Copper	0,005 max
Iron	0,005 max
Lead	0,006 max
Others total	0,10 max

Electrochemical capacity: -1050 v. Ag/AgCl reference cell nominal (in seawater)

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ZINC ANODE:

nett weight 32,0 kg
gross weight 33,0 kg

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info@ampak.us

Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 326576000	Weight: + / - 3%
drawn:	Dwg. No.: S 10806	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

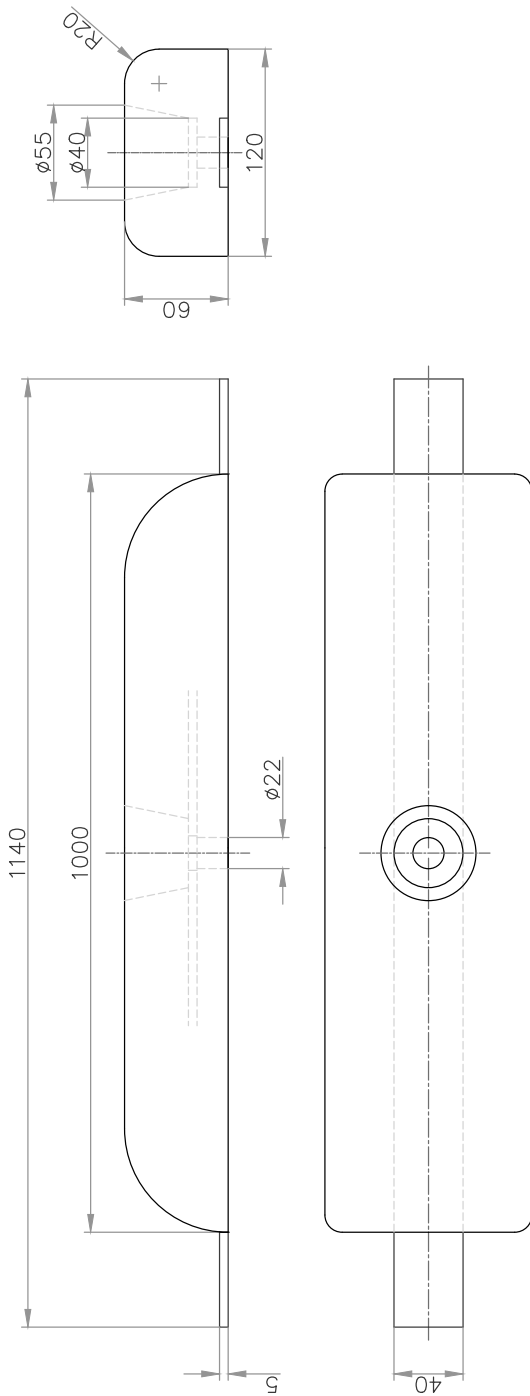
ANODE TYPE 320-Z-IM-B

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,87-99,99

Copper	0,005 max
Iron	0,005 max
Lead	0,006 max
Others total	0,10 max
Electrochemical capacity	10000
Standard potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

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ZINC ANODE:

nett weight 48,5 kg
gross weight 49,5 kg

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: t.s.	Art. No.: 923525000	Weight: + / - 3%
drawn:	Dwg. No.: S 9653	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

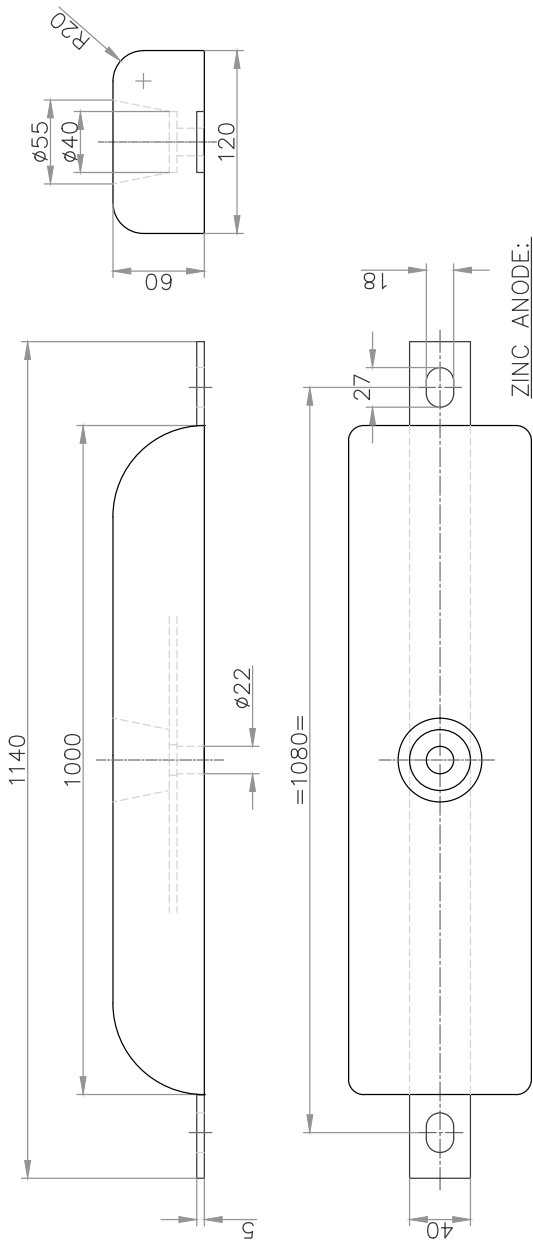
ANODE TYPE 485-Z-M

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,87-99,99

Copper	0,005 max
Iron	0,005 max
Lead	0,006 max
Others total	0,10 max
Electrochemical capacity	1000 v. Ag/AgCl
Standard potential	reference cell nominal (in seawater)

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ZINC ANODE:

nett weight 48,5 kg
gross weight 49,5 kg

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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 927165000	Weight: + / - 3%
drawn:	Dwg. No.: S 9726	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 485-Z-M-B

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,875-99,975
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max

Electrochemical capacity: 1000 v. Ag/AgCl reference cell nominal (in seawater)

Standard potential: -1050 v. Ag/AgCl reference cell nominal (in seawater)

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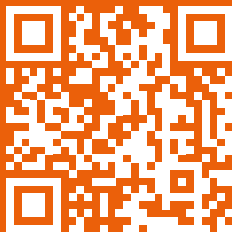
ALUMINIUM BOLT-ON HULL ANODES

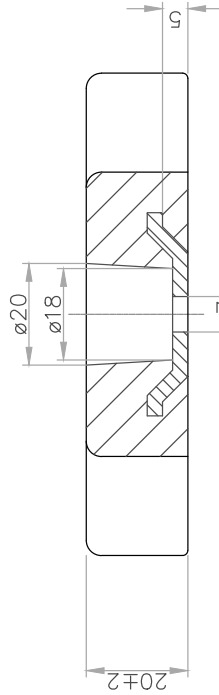
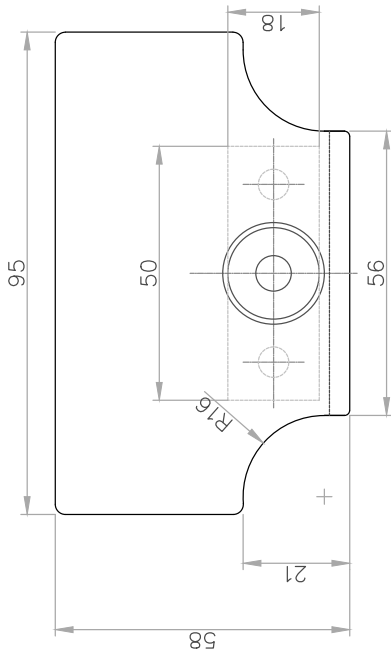
The next pages gives only a selection of types we have available.

In fact every anode with an insert could be a bolt-on anode, they can be made with regular holes or slotted holes.

The length of the inserts can vary on your request, as long as they are longer than the casted anode body.

For contact scan QR-code





ALUMINIUM ANODE:
nominal weight 0,25 kg

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

2790 AlH₂g nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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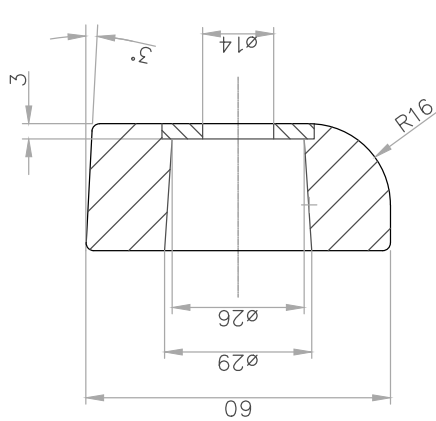
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Other specifications are available on request

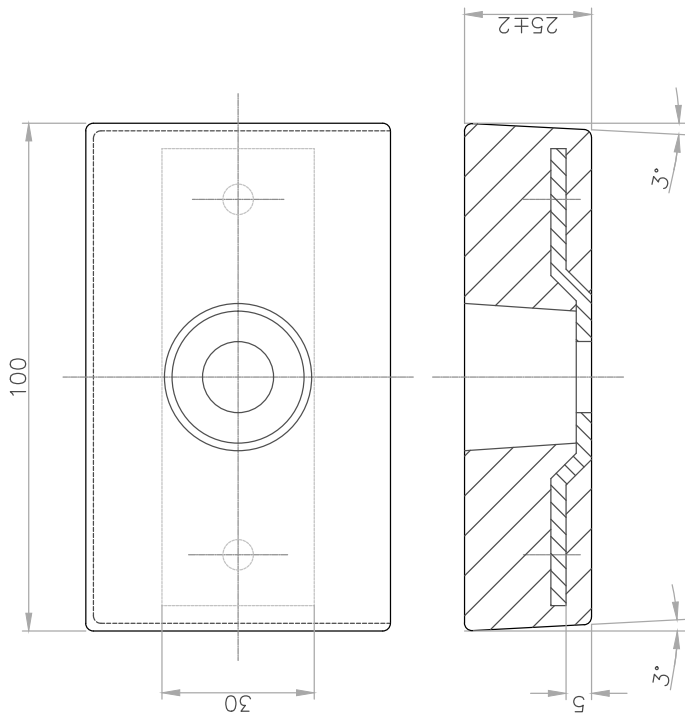
Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.:	Weight: +/− 3%
drawn:	Dwg. No.: S 11075	ben. Tol.: NACE SP0387
date:	Drm.: A-4	ANODE TYPE SP-1 AL

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ALUMINIUM ANODE:
nominal weight 0,3 kg



Aluminum alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,00 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Percentages (%)
0,10 - 0,15
2,00 - 5,0
0,01 - 0,05
0,01 - 0,05
Balance (99,85% Purity)
0,02 Max
0,10 - 0,15
0,02 Max

Electrochemical capacity:
Solution potential:
2700 Ah/Kg nominal
-1100 mV (vs. Ag/AgCl) reference cell nominal (in seawater)

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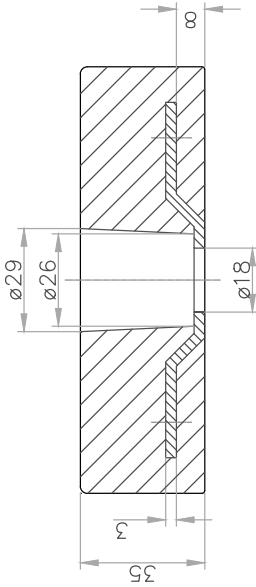
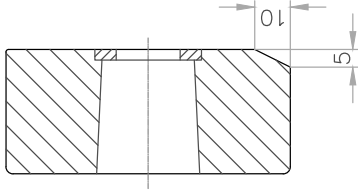
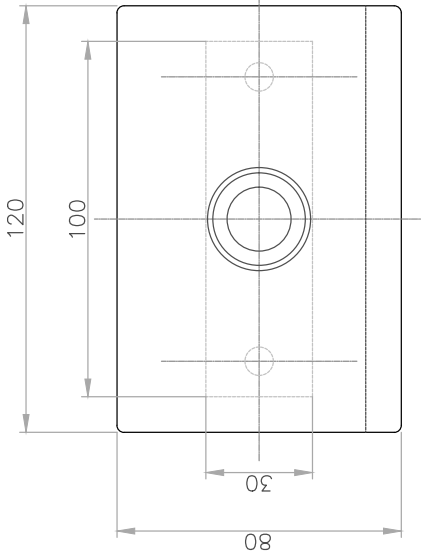
scale:n.t.s.	Art. No.:	Weight: +/− 3%
drawn:	Dwg. No.:S 11073	Pen. Tol.: NACE SP0387
date:	Drm.:A-4	

ANODE TYPE 3-AL

Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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ALUMINIUM ANODE:
nominal weight 0,7 kg

Aluminium alloy specification
Components
 Silicon
 Zinc
 Titanium
 Indium
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max

Alloy grade (99,95% Purity)
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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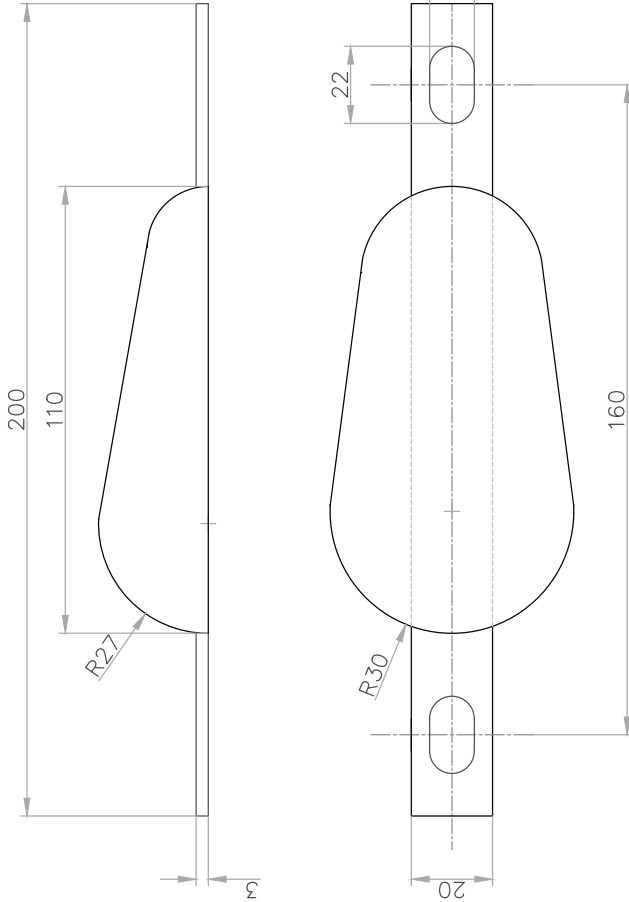
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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:	Weight: +/− 3%
drawn:	Dwg. No.:S 11074	Ben. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE 7-AL

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ALUMINIUM ANODE:

nett weight 0,25 kg
gross weight 0,30 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

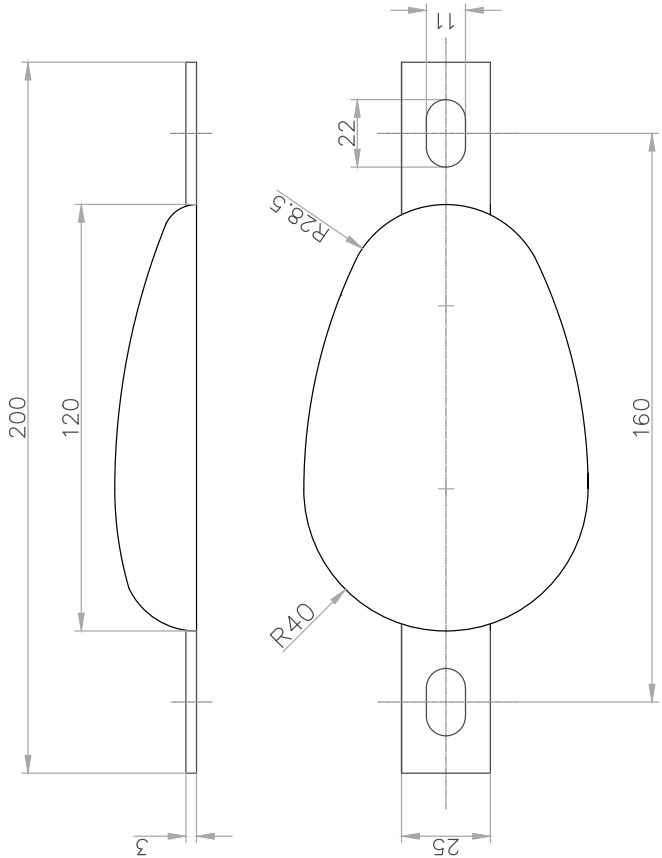
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:922560000	Weight: +/− 3%
drawn:	Dwg. No.:S 8013	Ben. Tol.: NACE SP0387
date:	Drm.:A-4	ANODE TYPE EA-0.3

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ALUMINIUM ANODE:

nett weight 0,4 kg
gross weight 0,5 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
-1100 mV vs. Ag/AgCl reference cell/normal (in seawater)

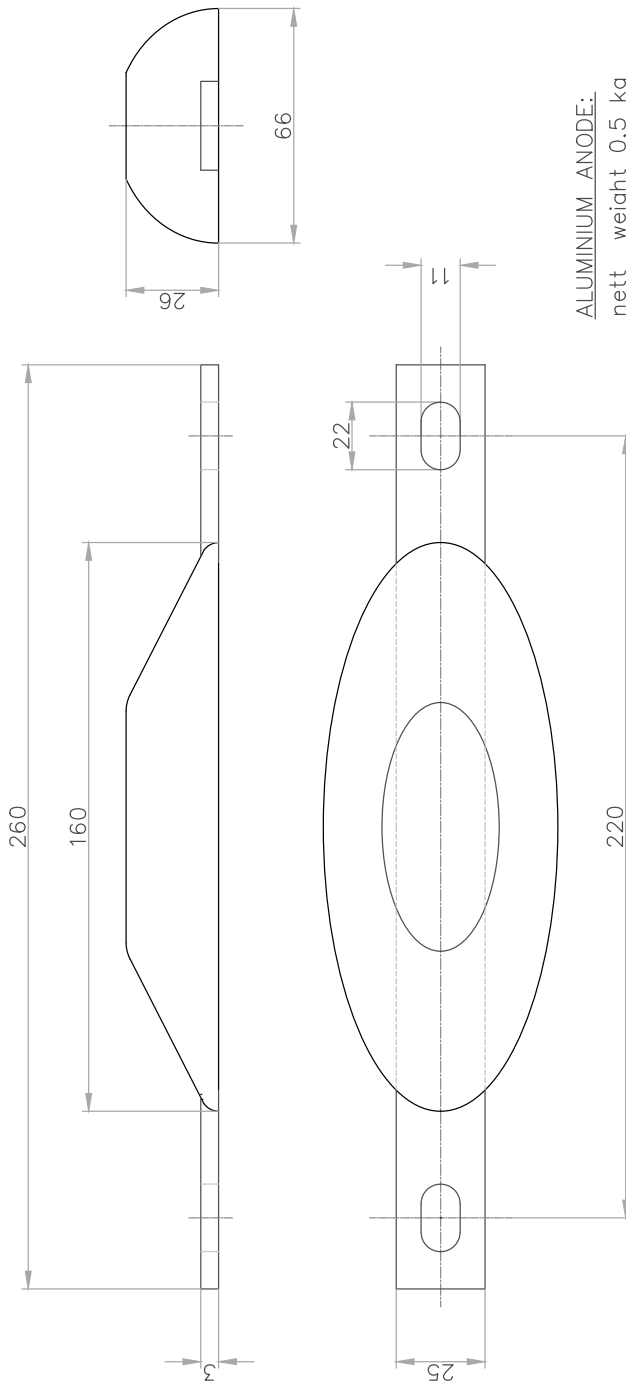
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Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:922561000	Weight: +/− 3%
drawn:	Dwg. No.: S 8018	ben. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE EA-0.5

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ALUMINIUM ANODE:
 nett weight 0,5 kg
 gross weight 0,7 kg

Aluminium alloy specification	Percentages (%)
Silicon	0,10 - 0,15
Iron	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	99,95 min (99,95% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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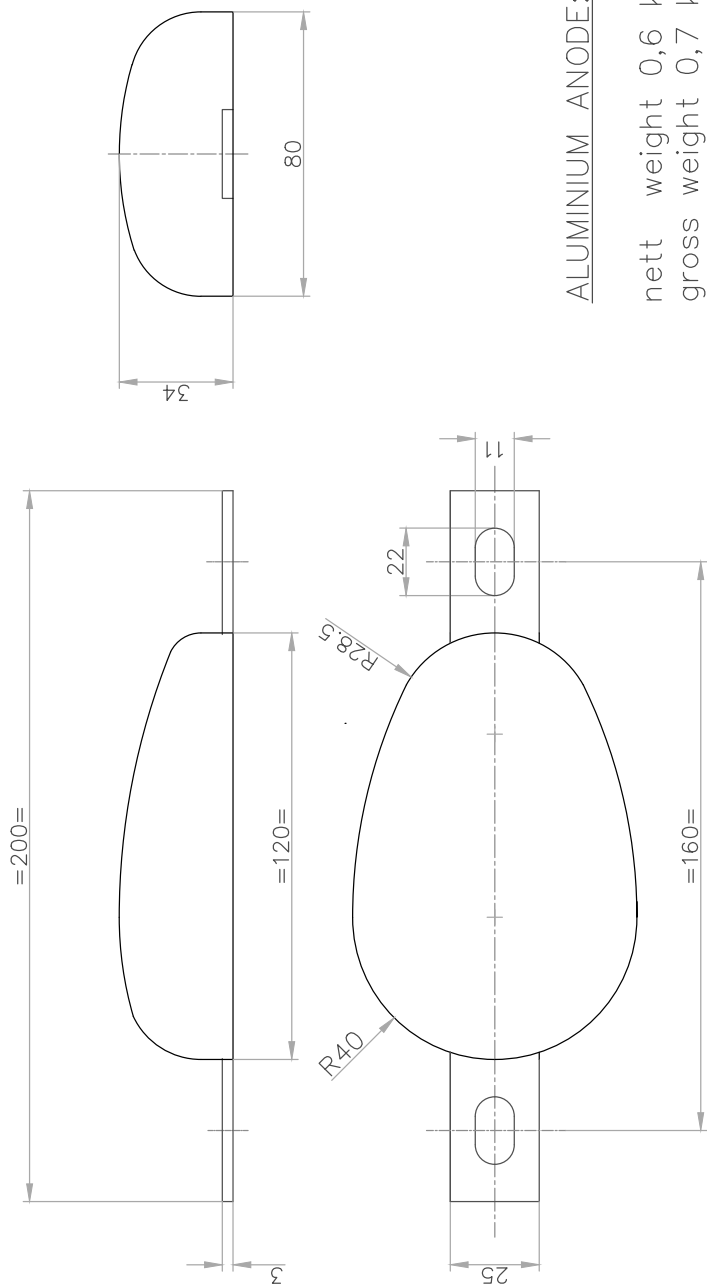
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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922559000	Weight: + / - 3%
drawn:	Dwg. No.:S 8072	Ben. Tol.: NACE SP0387
date:	Drm.:A-4	ANODE TYPE EA-0.6

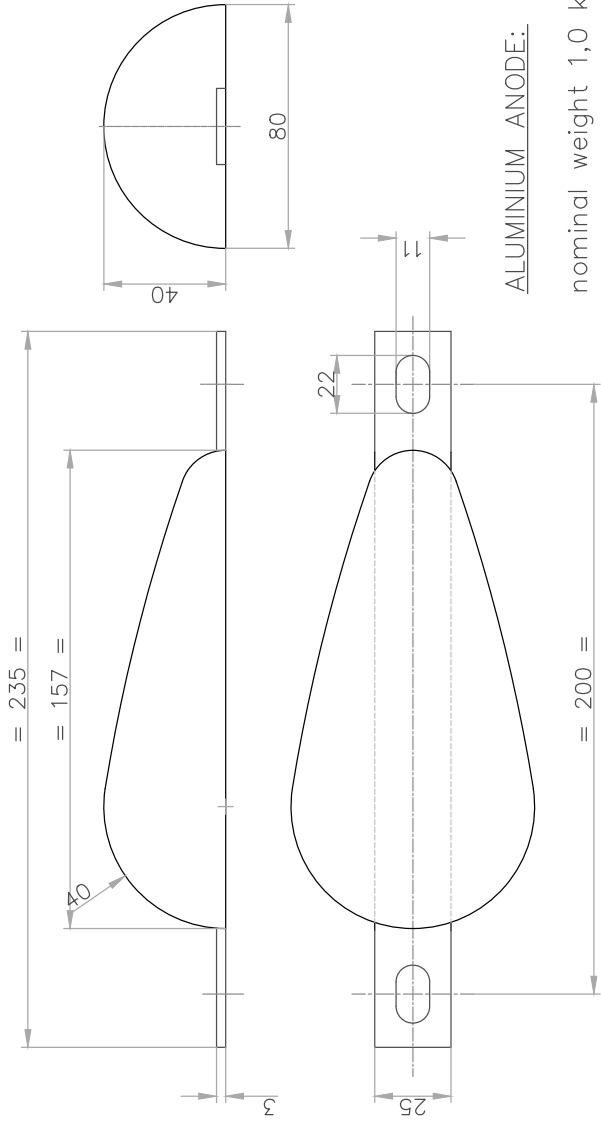
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ALUMINIUM ANODE:

nett weight 0,6 kg
gross weight 0,7 kg

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<p>Aluminium alloy specification Components Silicon Zinc Titanium Iridium Aluminium</p>	<p>Impurities 0,10 - 0,15 2,0 - 5,0 0,01 - 0,05 0,01 - 0,05 0,02 Max 0,10 - 0,15 0,02 Max</p>	<p>Art. No.:922566000 Dwg. No.:S 8019 Drm.:A-4</p>	<p>Weight: +/− 3% Ben. Tol.: NACE SP0387</p>	<p>ANODE TYPE EA-0.7</p>	
<p>Electrochemical capacity: Solution potential: 2700 Ah/Kg nominal -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)</p>	<p>Copper Iron Others each</p>	<p>scale:n.t.s. drawn: date:</p>	<p>Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>		



Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

Copper
 Iron
 Others each

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

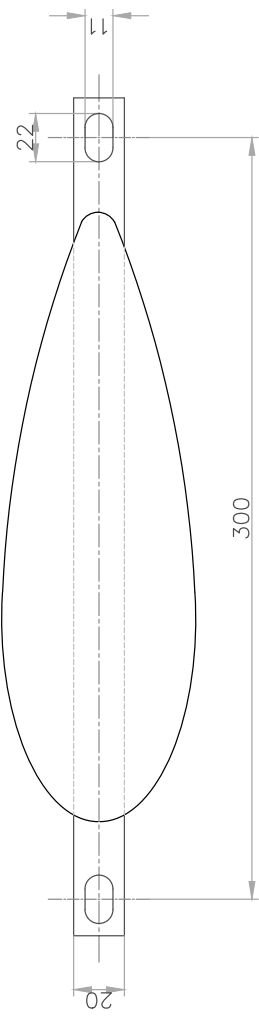
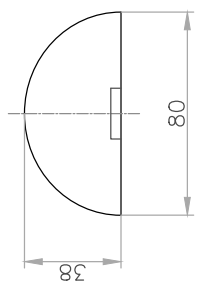
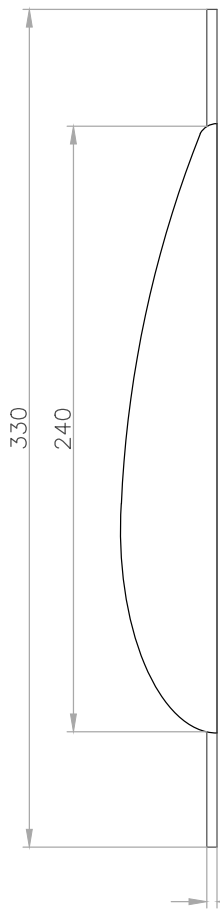
Art. No.: 922563000 | Weight: + / - 3%
 Dwg. No.: S 7765 | Ben. Tol.: NACE SP0387
 Dfm.: A-4

scale: n.t.s.
 drawn:
 date:

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 info@ampak.nl
 info@ampak.de

Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
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 Anode can also be provided with a coated backside

ANODE TYPE EA-1.0
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ALUMINIUM ANODE:
 nett weight 1,0 kg
 gross weight 1,2 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 99,85% Purify
 0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

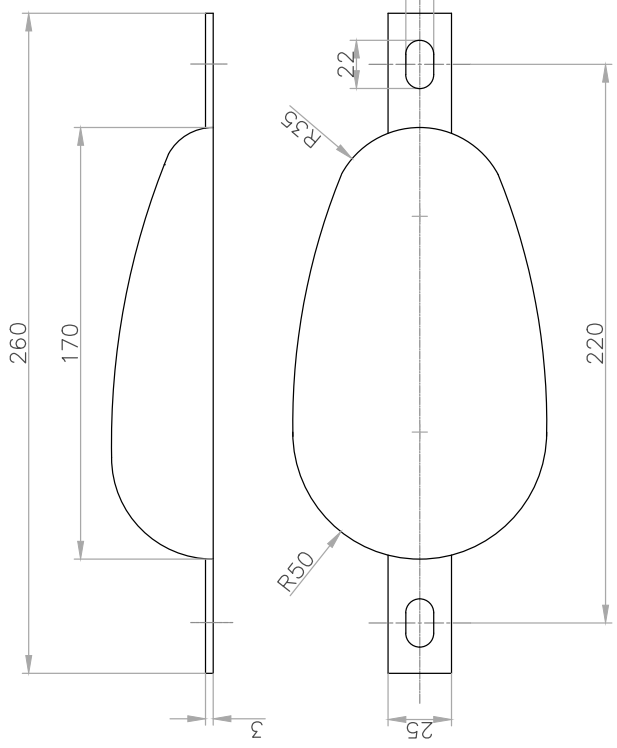
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:923487000	Weight: +/− 3%
drawn:	Dwg. No.:S 8062	Ben. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE EA-1.2

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ALUMINIUM ANODE:
 nett weight 1,1 kg
 gross weight 1,3 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper
 Iron
 Others each
 Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 99,85% Purity
 0,02 Max
 0,10 - 0,15
 0,02 Max

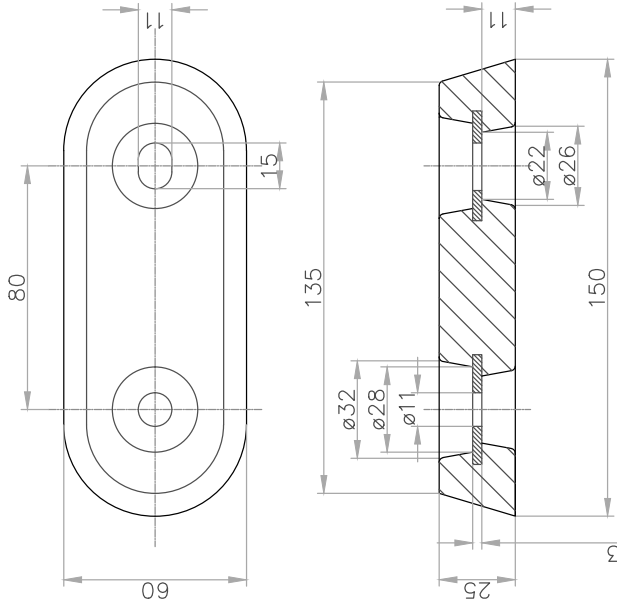
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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922562000	Weight: +/− 3%
drawn:	Dwg. No.:S 8061	Ben. Tol.: NACE SP0387
date:	Drm.:A-4	ANODE TYPE EA-1.3

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ALUMINIUM ANODE:

nominal anode weight 0,45 kg

Aluminum alloy specification
 Components: Inbrunites
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium
 Copper
 Iron
 Others each

Percentage (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05

Iron content (ppm)
 99,95% Purity
 0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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scale: n.t.s.
 drawn:
 date:

Art. No.: 322566000
 Dwg. No.: S 7762
 Dfm.: A-4

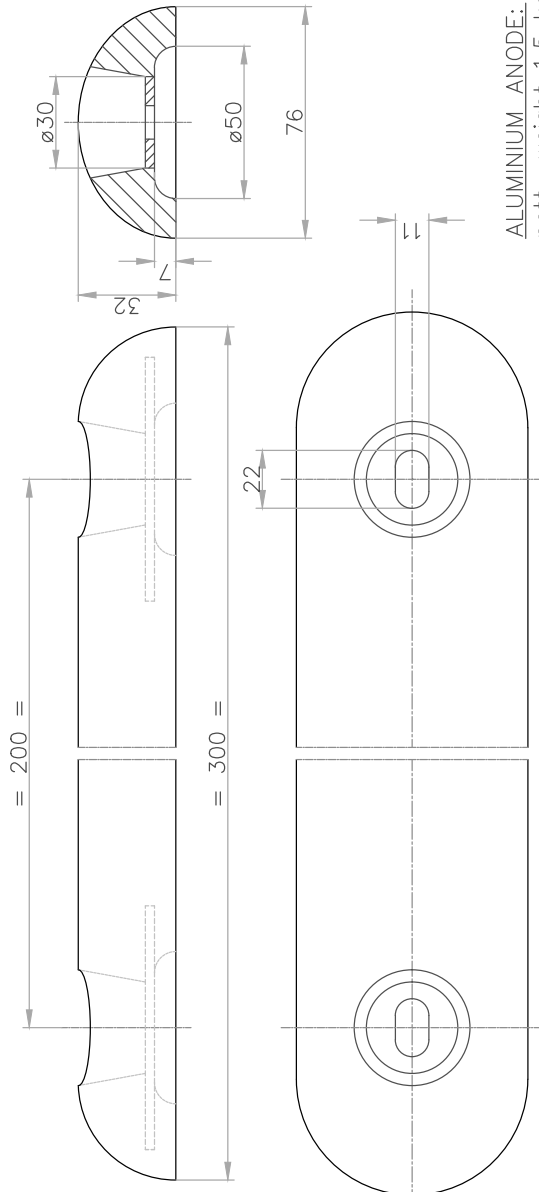
Weight: + / - 3%
 Ben. Tol.: NACE SP0387

ANODE TYPE EA-0.45-B

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
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 Anode can also be provided with a coated backside

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ALUMINIUM ANODE:
 nett weight 1,5 kg
 gross weight 1,7 kg

Aluminum alloy specification	Percentages (%)
Silicon	0,10 - 0,15
Magnesium	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminum	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

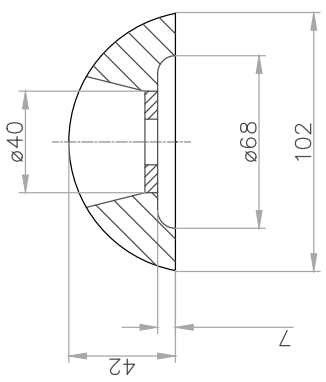
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 info@ampak.de

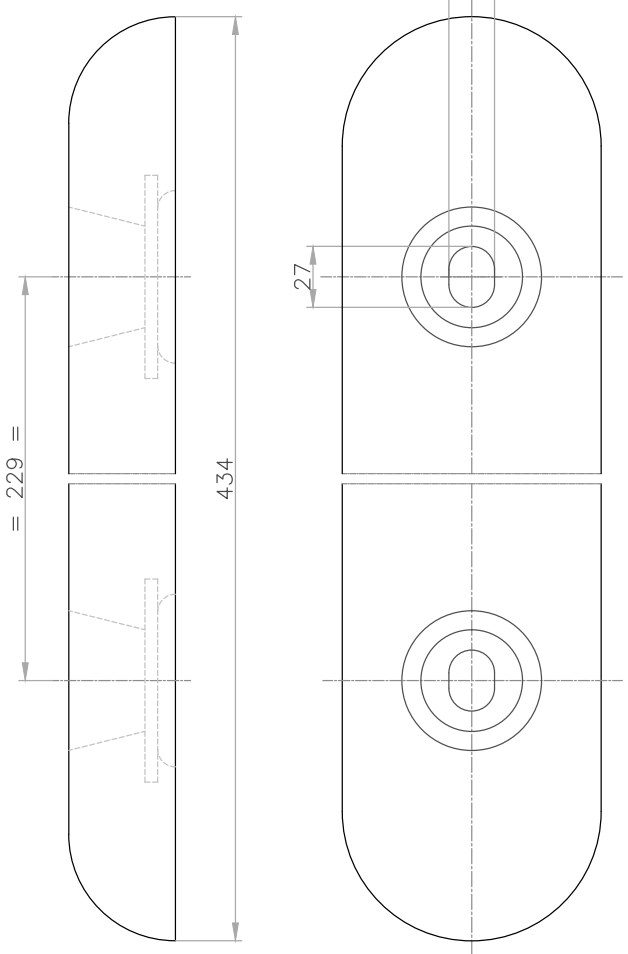
Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:922550000	Weight: +/− 3%
drawn:	Dwg. No.:S 7595	Ben. Tol.: NACE SP0387
date:	Drm.:A-4	ANODE TYPE EA-1.7-B

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ALUMINIUM ANODE:
 nett weight 2,6 kg
 gross weight 3,1 kg



Aluminium alloy specification	Percentages (%)
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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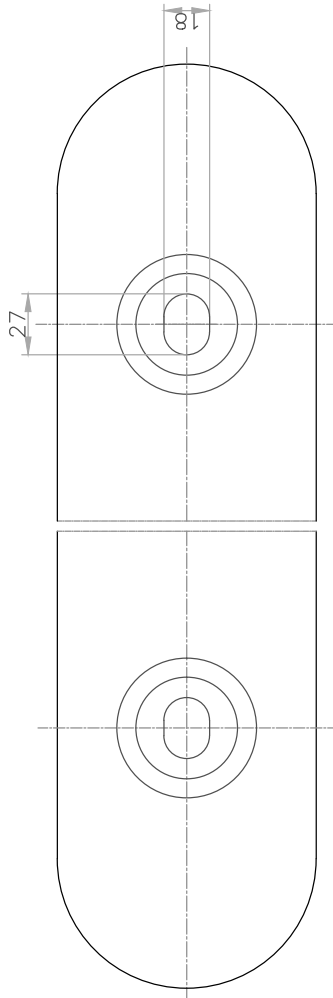
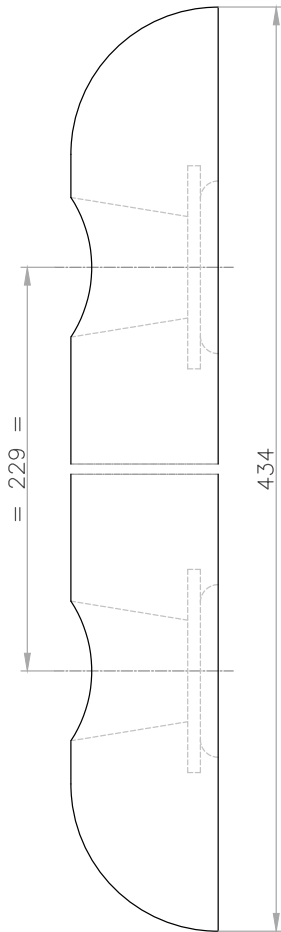
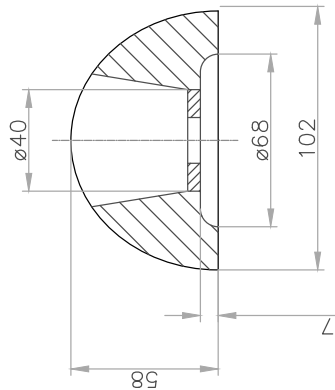
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 info@ampak.de

Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:922557000	Weight: +/− 3%
drawn:	Dwg. No.:S 7749	Ben. Tol.: NACE SP0387
date:	Drm.:A-4	

ANODE TYPE EA-3-1-B

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ALUMINIUM ANODE:
 nett weight 4,5 kg
 gross weight 5,0 kg

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05

Alloy grade (99,95% Purity)
 0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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scale:n.t.s.
 drawn:
 date:

Art. No.:922549000 Weight: +/− 3%
 Dwg. No.:S 7597 Ben. Tol.: NACE SP0387
 Dm.:A-4

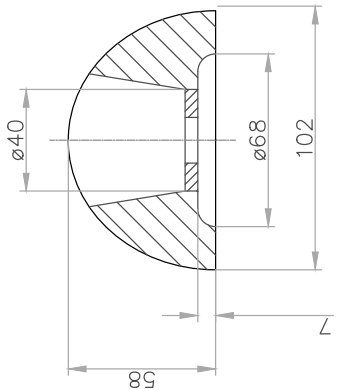
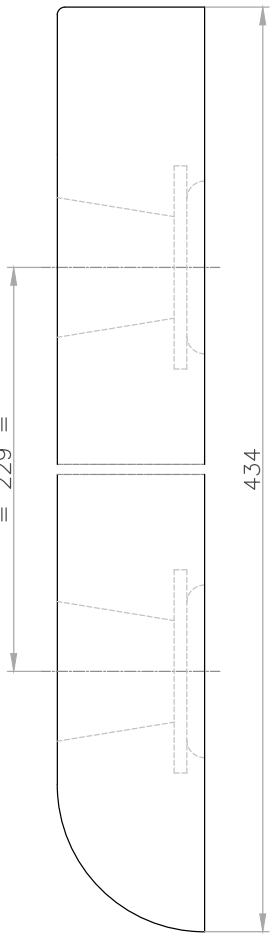
Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

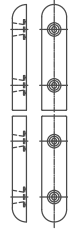
ANODE TYPE EA-5.0-B

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= 229 =



Anode set consists of 2 anodes mounted as follows:



ALUMINIUM ANODE:
 nett weight 5,0 kg
 gross weight 5,5 kg

Aluminium alloy specification

Elements	Impurities
Si	0,10 - 0,15
Zn	2,0 - 5,0
Titanium	0,01 - 0,05
Iron	0,01 - 0,05
Aluminium	99,85% Purity

Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max

Electrochemical capacity:
 Solution potential: -1100 mV vs. Ag/AgCl; reference cell nominal (in seawater)

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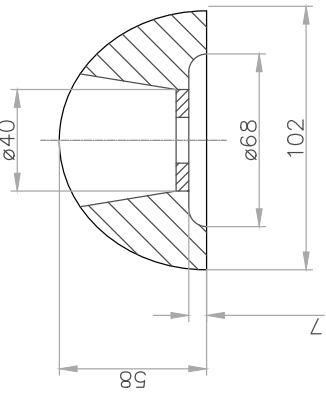
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922551000	Weight: + / - 3%
drawn:	Dwg. No.: S 7596	Ben. Tol.: NACE SP0387
date:	Dim.: A - 4	ANODE TYPE EA-5-5-B

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= 229 =



434

27

108

ALUMINIUM ANODE:
 nett weight 5,5 kg
 gross weight 6,0 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/normal (in seawater)

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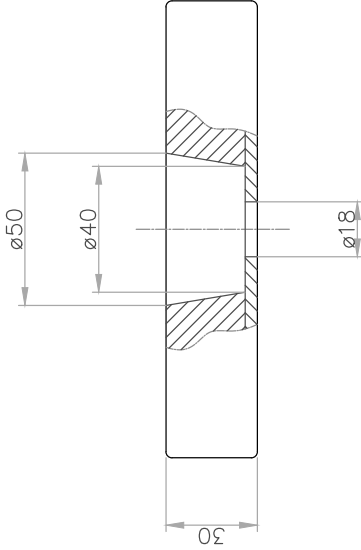
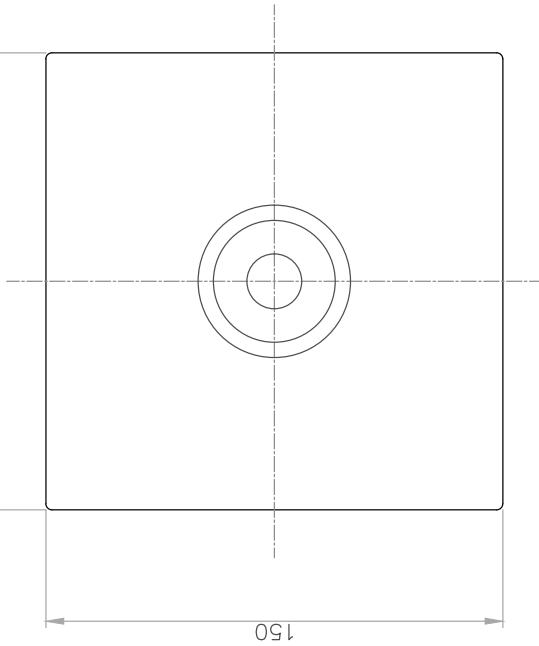
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922553000	Weight: +/− 3%
drawn:	Dwg. No.:S7745	Ben. Tol.: NACE SP0387
date:	Drm.:A-4	ANODE TYPE EA-6.0-B

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150



ALUMINIUM ANODE:

nett weight: 1,7 kg
gross weight: 1,9 kg

Aluminium alloy specification	Percentages (%)
Components	Impurities
Silicon	0,10 - 0,15
Iron	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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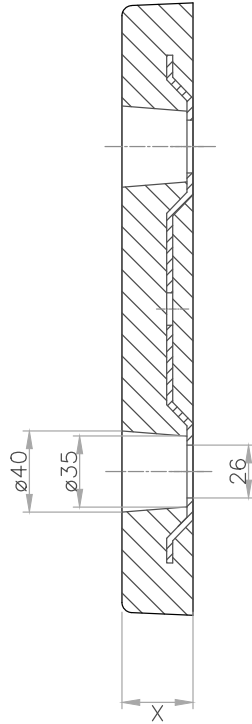
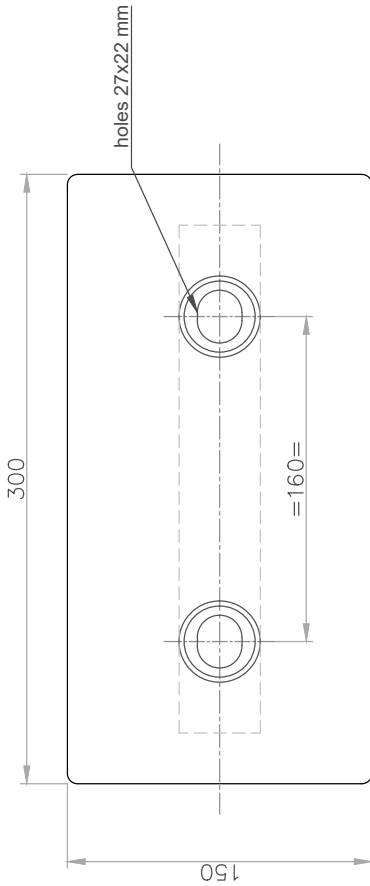
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Fax +31 (0) 345-633444
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info@ampak.de

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 922526000	Weight: + / - 3%
drawn:	Dwg. No.: S 8220	Gen. To.: NACE SP0387
date:	Dim.: A - 4	Copyright Ampak®, No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

ANODE TYPE 17-AL-B



X	Anode	Weight
35	39-AL-B	3,9 kg
40	48-AL-B	4,8 kg
50	60-AL-B	6,0 kg

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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scale: n. t. s. Art. No.: Weight: + / - 3%
drawn: Dwg. No.: Gen. Tol.: NACE SP0387

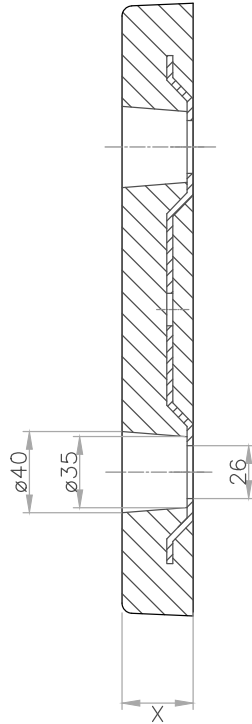
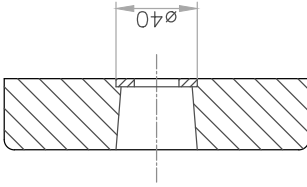
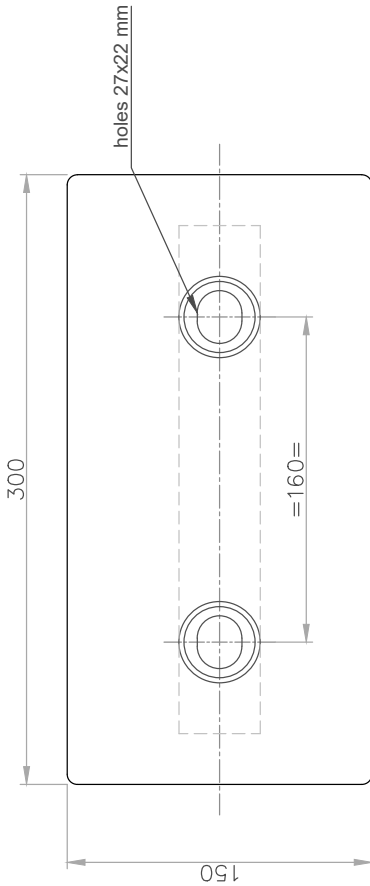
date: Dim.: A-4

Aluminum alloy specification
Components Impurities
Silicon 0,10 - 0,15
Zinc 2,0 - 5,0
Titanium 0,01 - 0,05
Iridium 0,01 - 0,05
Aluminum 99,85% (Purity)
Copper 0,02 Max
Iron 0,10 - 0,15
Others each 0,02 Max

Electrochemical capacity:
Solution potential: 2700 Ah/Kg nominal
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

Anode Type AL-B

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X	Anode	Weight
35	39-AL-B	3,9 kg
40	48-AL-B	4,8 kg
50	60-AL-B	6,0 kg

Aluminium alloy specification
 Components Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Indium 0,01 - 0,05
 Aluminium
 Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max

Electrochemical capacity:
 Silicon, potential: 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl; reference cell nominal (in seawater)

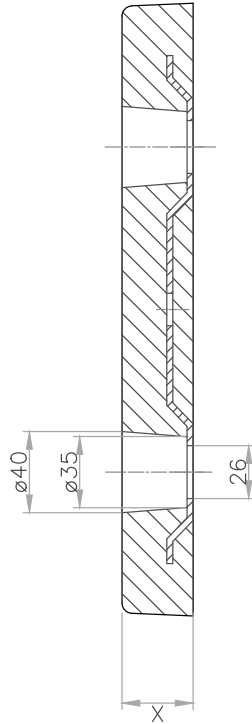
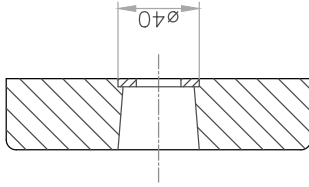
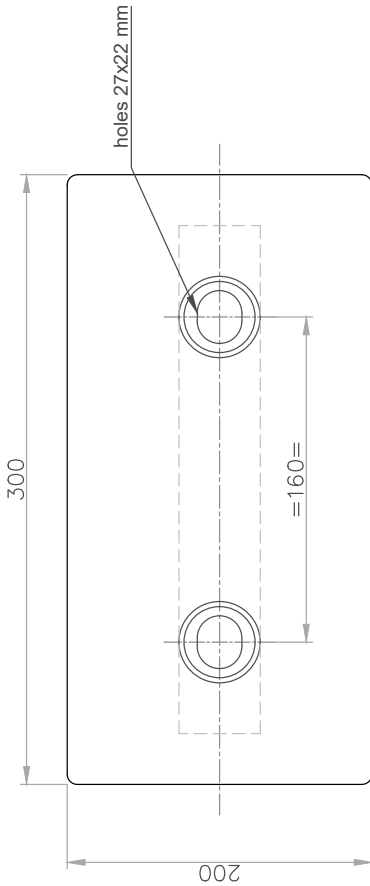
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scale: n.t.s.
 Art. No.:
 Dwg. No.:
 drawn:
 date:

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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE AL-B	
Weight: +/− 3%	Ben. Tol: NACE SP0387
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X	Anode	Weight
60	65-AL-B	6,5 kg
65	85-AL-B	8,5 kg
70	110-AL-B	11 kg

Aluminium alloy specification
 Components Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper 99,85% Purify
 Iron 0,10 - 0,15
 Others each 0,02 Max
 Electrochemical capacity:
 Silicon, platinum: -1100 mV vs. Ag/AgCl; reference cell nominal (in seawater)

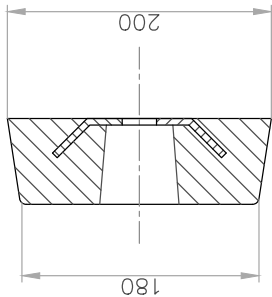
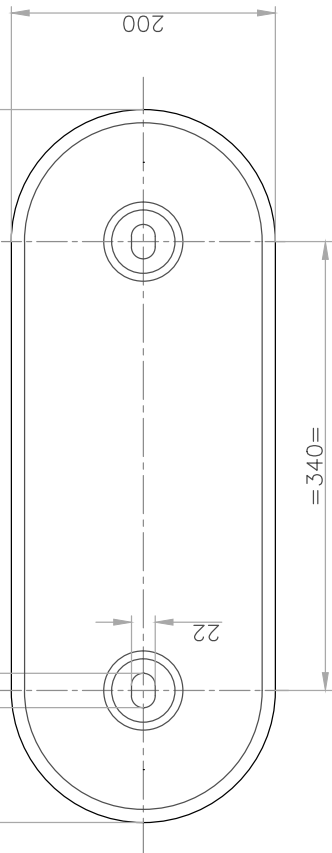
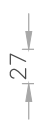
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.:	Weight: +/− 3%
drawn:	Dwg. No.:	Ben. Tol: NACE SP0387
date:	Dim.: A-4	ANODE TYPE AL-B

540



ALUMINIUM ANODE:

nett weight 15,4 kg

gross weight 16,0 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Alloy (99,95% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
-1050 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm

All data is subject to change without prior notice

Anode can also be provided with a coated backside

scale: n. t. s.

drawn: date:

Art. No.: 322531000

Dwg. No.: S 8481

Weight: +/- 3%

Gen. Tol.: NACE SP0387

Dim.: A-4

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ANODE TYPE 154-AL-B

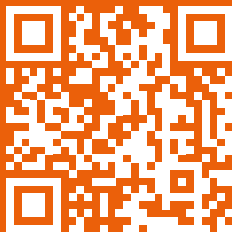
ZINC BOLT-ON HULL ANODES

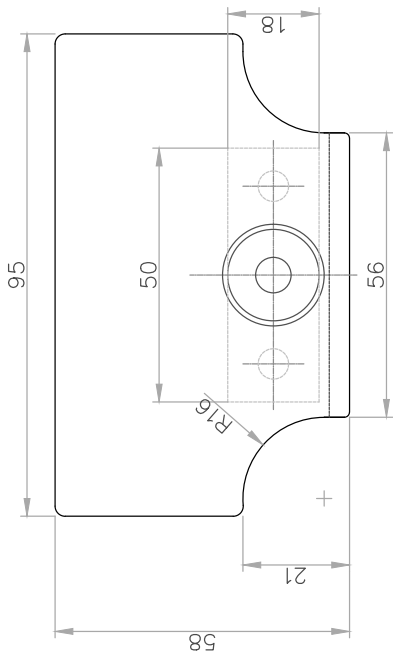
The next pages gives only a selection of types we have available.

In fact every anode with an insert could be a bolt-on anode, they can be made with regular holes or slotted holes.

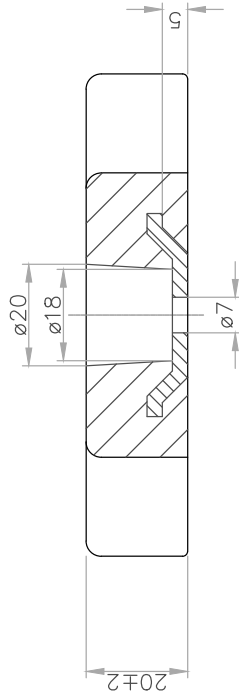
The length of the inserts can vary on your request, as long as they are longer than the casted anode body.

For contact scan QR-code





ZINC ANODE:
nominal weight 0,6 kg



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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: t. s.

Art. No.:

Weight: +/− 3%

drawn:

Dwg. No.: S 5628

Gen. Tol.: NACE SP0387

ANODE TYPE SP-1 ZN

date:

Dim.: A-4

(in seawater)

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components Impurities Percentage (%)

Cadmium 0,025-0,07

Aluminum 0,10-0,5

Iron 0,005 max

Copper 0,005 max

Lead 0,006 max

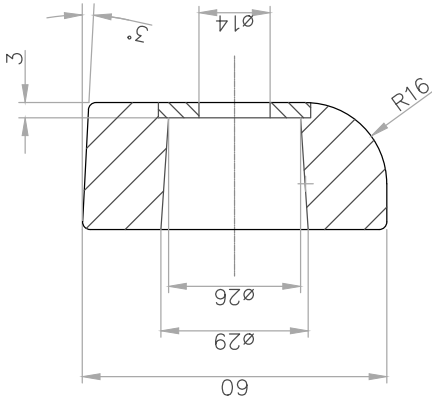
Others total 0,10 max

Electrochemical capacity

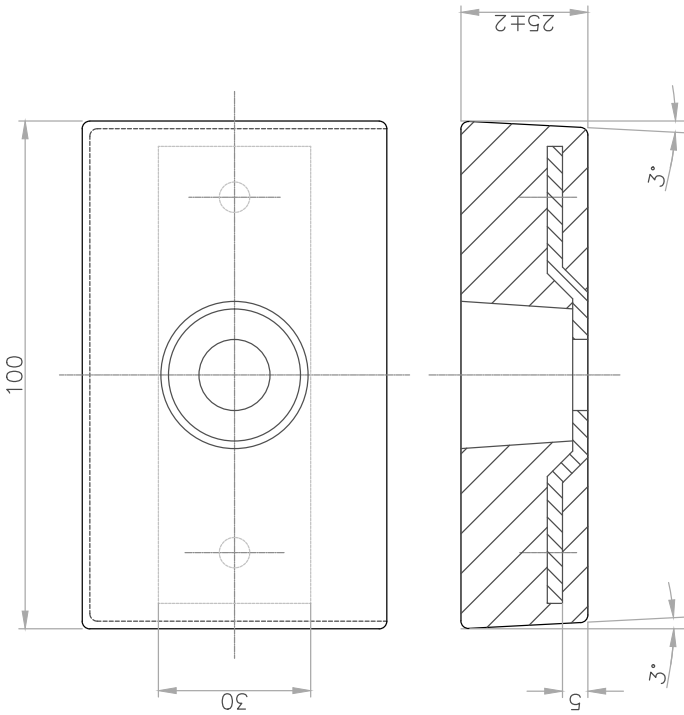
-1050 vs. Ag/AgCl reference cell nominal (in seawater)

Solution potential

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ZINC ANODE:
nominal weight 0,8 kg



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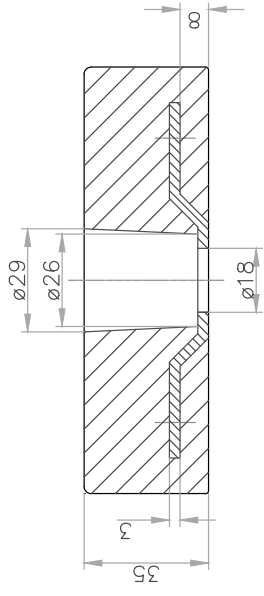
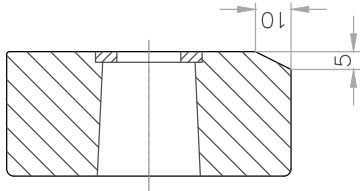
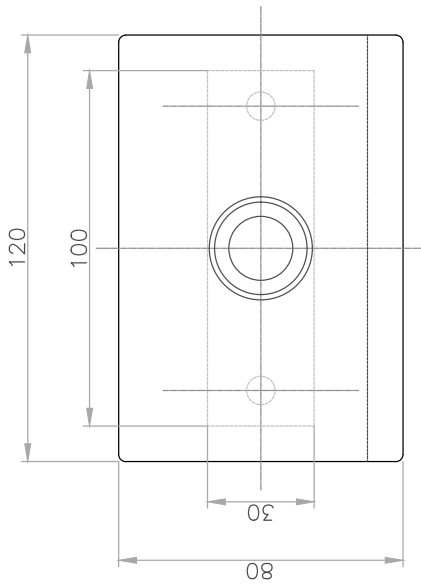
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 922174000	Weight: + / - 3%
drawn:	Gen. No.: S 5626	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 8-Z

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc 0,005 max
Copper 0,005 max
Iron 0,005 max
Lead 0,006 max
Others total 0,10 max
Electrochemical capacity: nominal
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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ZINC ANODE:
nominal weight 1,8 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,905 max
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max

Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

Solution potential:

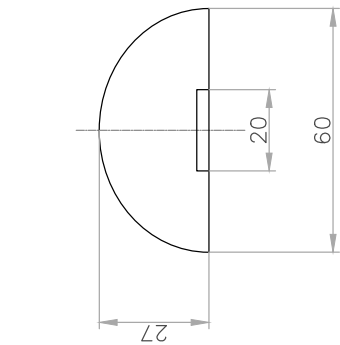
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Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

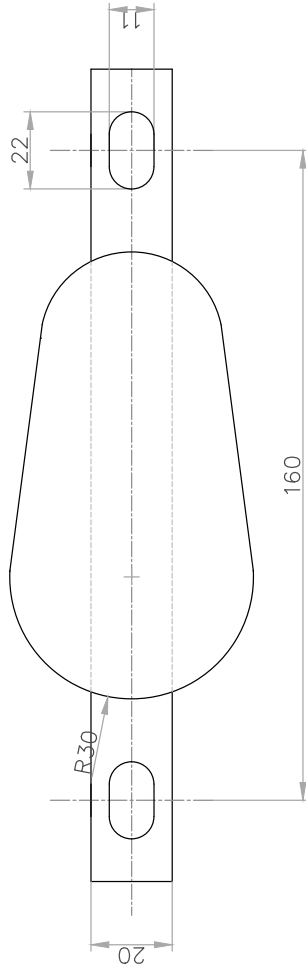
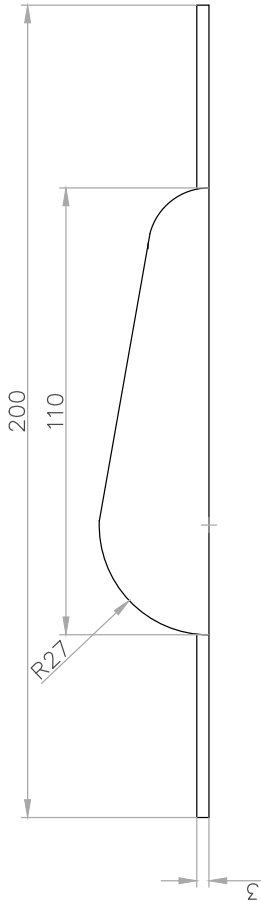
scale: n. t. s.	Art. No.: 922183000	Weight: + / - 3%
drawn:	Dwg. No.: S 5625	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	ANODE TYPE 18-Z

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ZINC ANODE

nett weight 0,6 kg
gross weight 0,7 kg



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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

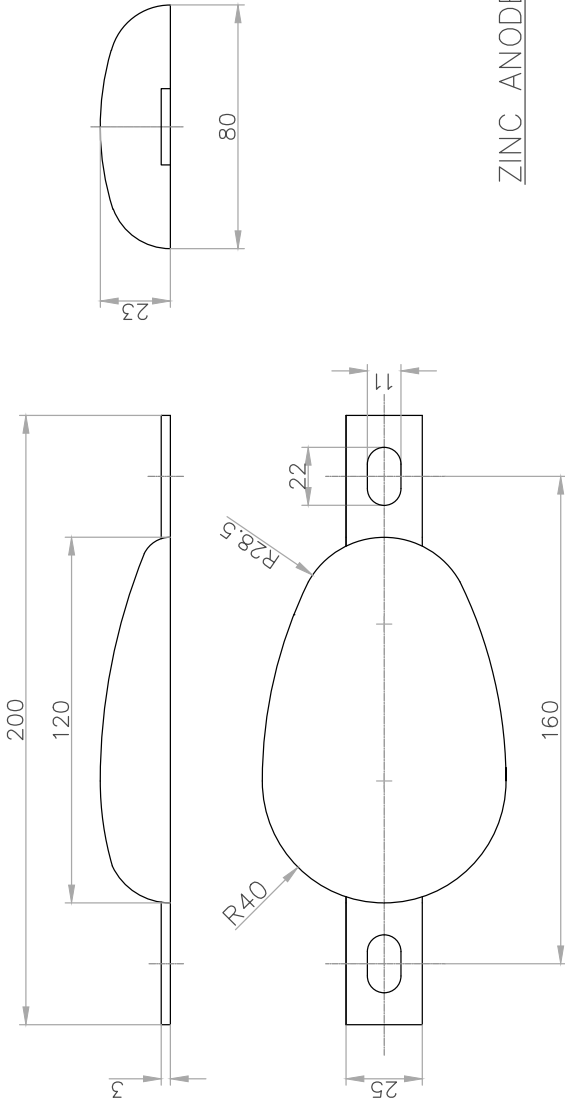
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scale:n. t. s.	Art. No.:922347000	Weight: + / - .3%
drawn:	Dwg. No.:S 8014	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	

ANODE TYPE EZ-0.7

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0.025-0.07
Aluminum 0.10-0.5
Zinc 0.005 max
Copper 0.005 max
Iron 0.005 max
Lead 0.006 max
Others total 0.10 max

Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)



ZINC ANODE:

nett weight 0,9 kg

gross weight 1,0 kg

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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inf@ampak.de

scalen: t. s.	Art. No.: 922371000	Weight: + / - 3%
drawn:	Gen. No.: S 8038	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

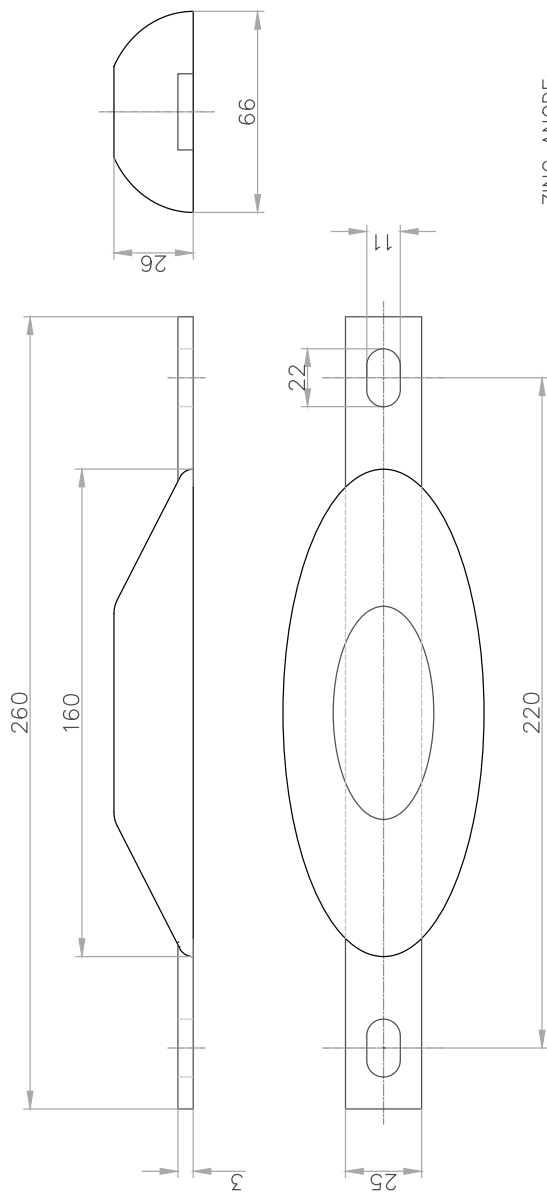
ANODE TYPE EZ-1.0

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0.025-0.07
Aluminum 0.10-0.5
Zinc 99.905 max

Copper 0.005 max
Iron 0.005 max
Lead 0.006 max
Others total 0.10 max

Electrochemical capacity vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential: -1050 vs. Ag/AgCl

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ZINC ANODE:

nett weight 1,0 kg
gross weight 1,2 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K
 Components Impurities
 Cadmium 0,025-0,07
 Aluminum 0,10-0,5
 Zinc 0,005 max
 Copper 0,005 max
 Iron 0,005 max
 Lead 0,006 max
 Others total 0,10 max
 Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)
 Solution potential

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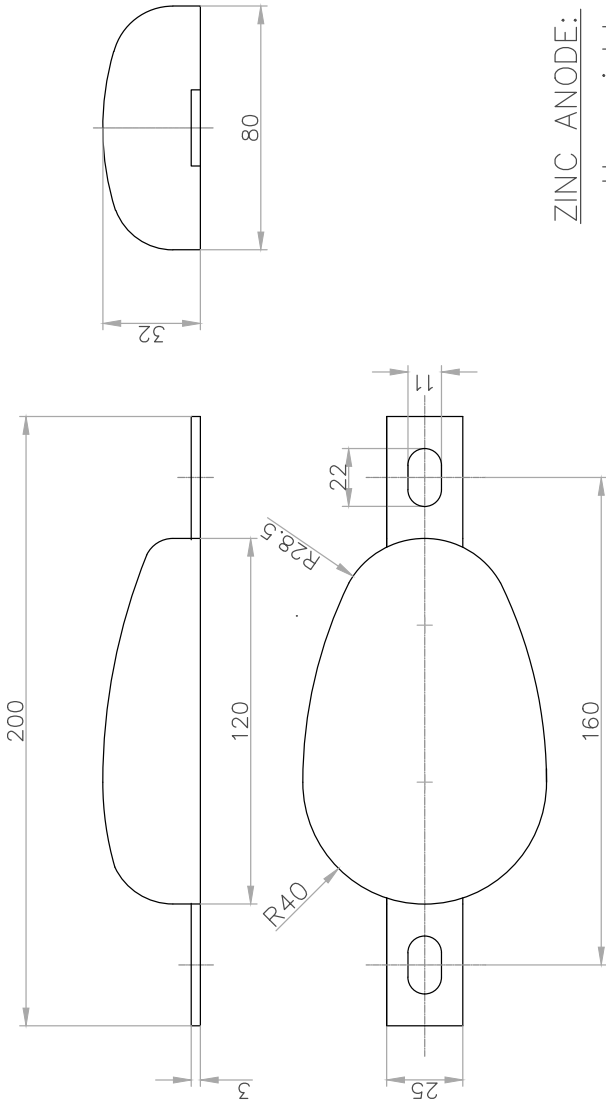
Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t. s.	Art. No.:922380000	Weight: +/− 3%
drawn:	Dwg. No.:S 8071	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	

ANODE TYPE EZ-1.2

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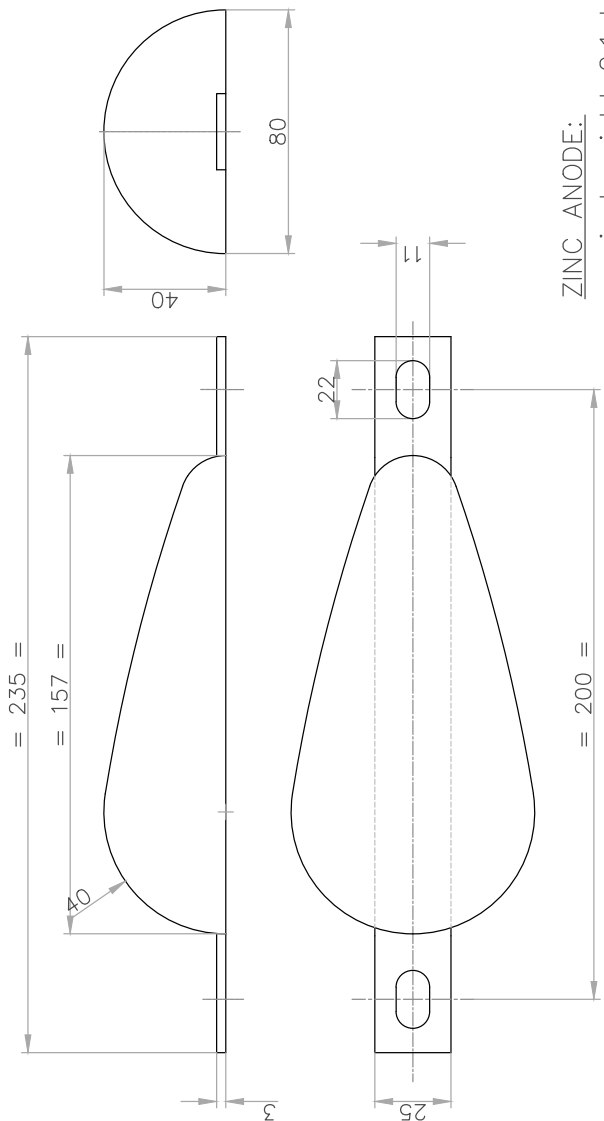


ZINC ANODE:

nett weight 1,5 kg

gross weight 1,6 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>99,875-99,975</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		99,875-99,975	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel: +31 (0) 345-633355 Fax: +31 (0) 345-633344 info@ampak.nl www.ampak.nl</p>	
Components	Impurities	Percentage (%)																									
Cadmium		0,025-0,07																									
Aluminum		0,10-0,5																									
Zinc		99,875-99,975																									
Copper		0,005 max																									
Iron		0,005 max																									
Lead		0,006 max																									
Others total		0,10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Other specifications are available on request</p>																									
<p>scale:n. t. s.</p>		<p>Art. No.:923269000 Weight: +/− 3%</p>																									
<p>drawn:</p>		<p>Gen. Tol.: NACE SP0387</p>																									
<p>date:</p>		<p>ANODE TYPE EZ-1.6</p>																									
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ZINC ANODE:

nominal weight 2,1 kg

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n. t. s.	Art. No.:922372000	Weight: +/− 3%
drawn:	Dwg. No.:S 7764	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	

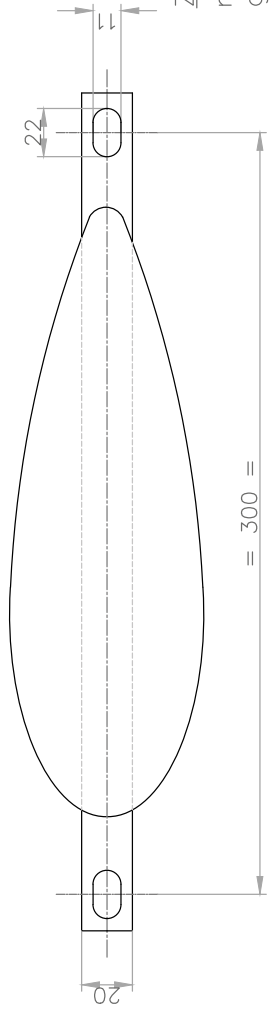
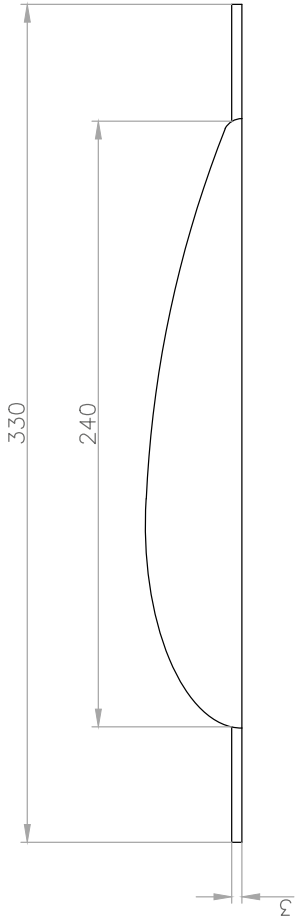
ANODE TYPE EZ-2.1

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Chromium 0,10-0,5
Aluminum 0,005 max
Zinc 0,005 max

Copper 0,005 max
Iron 0,005 max
Lead 0,006 max
Others total 0,10 max

Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential: -1050 vs. Ag/AgCl

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ZINC ANODE:

nett weight 2,6 kg
gross weight 2,8 kg

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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scale: n. t. s.	Art. No.: 3923885000	Weight: + / - 3%
drawn:	Gen. No.: S 8063	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE EZ-2.8

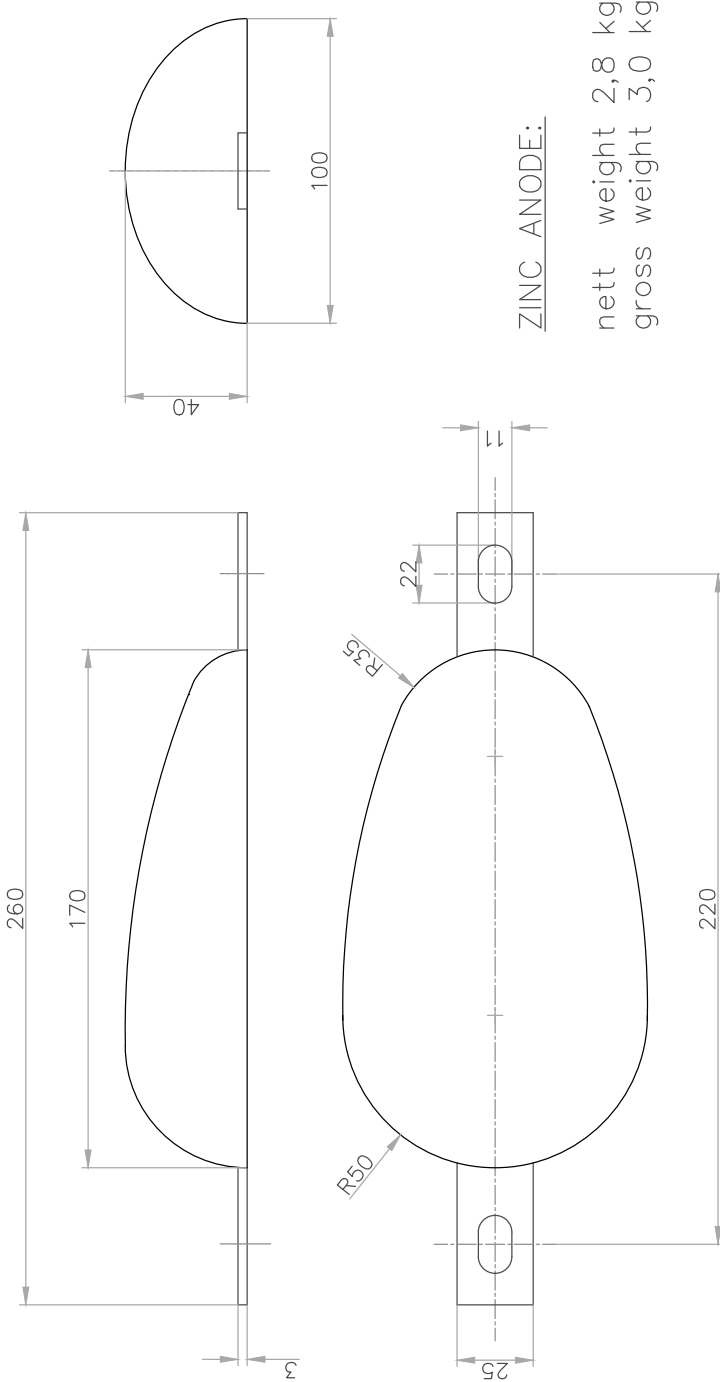
Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,87-99,99

Component	Percentage (%)
Copper	0,005 max
Iron	0,005 max
Lead	0,006 max
Others total	0,10 max

Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

Standard potential:



ZINC ANODE:

nett weight 2,8 kg
gross weight 3,0 kg

Other specifications are available on request

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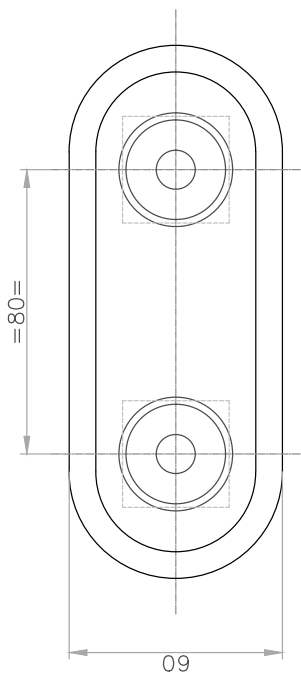
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Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc
Copper 0,005 max
Iron 0,005 max
Lead 0,006 max
Others total 0,10 max
Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential

scale: n. t. s.
drawn: date:
Art. No.: 922367000 Weight: +/- 3%
Gen. Tol.: NACE SP0387
Dwg. No.: S 8060
Dim.: A-4

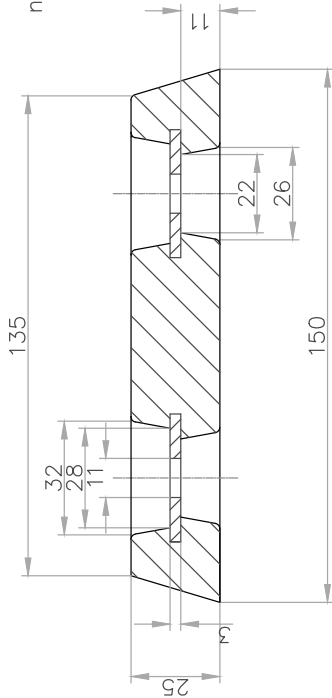
ANODE TYPE EZ-3

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ZINC ANODE:

nominal anode weight 1,0 kg



Zinc alloy specifications acc. US MIL Spec-A-18001K
 Components Impurities
 Cadmium Percentage (%) 0,025-0,07
 Aluminum 0,10-0,5
 Zinc 0,005 max
 Copper 0,005 max
 Iron 0,005 max
 Lead 0,006 max
 Others total 0,10 max
 Electrochemical capacity -1050 vs. Ag/AgCl reference cell nominal (in seawater)
 Solution potential

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
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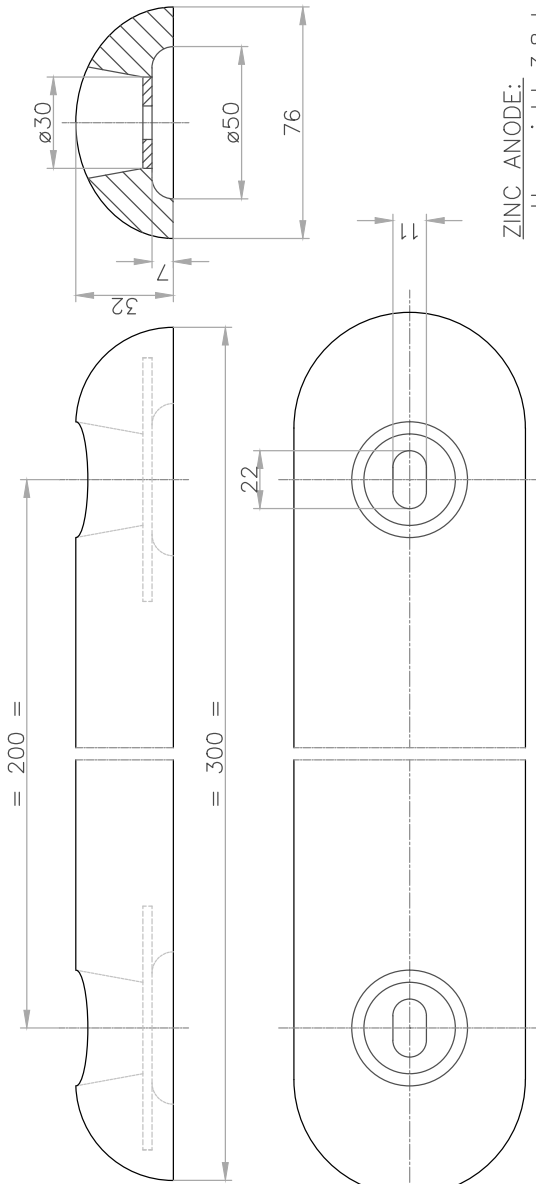
Art. No.: 922373000 Weight: +/- 3%
 Gen. Tol.: NACE SP0387

Dwg. No.: S 7763
 Dim.: A-4

scalen: t.s.
 drawn:
 date:

ANODE TYPE EZ-1-B

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ZINC ANODE:
 nett weight 3,8 kg
 gross weight 4,0 kg

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

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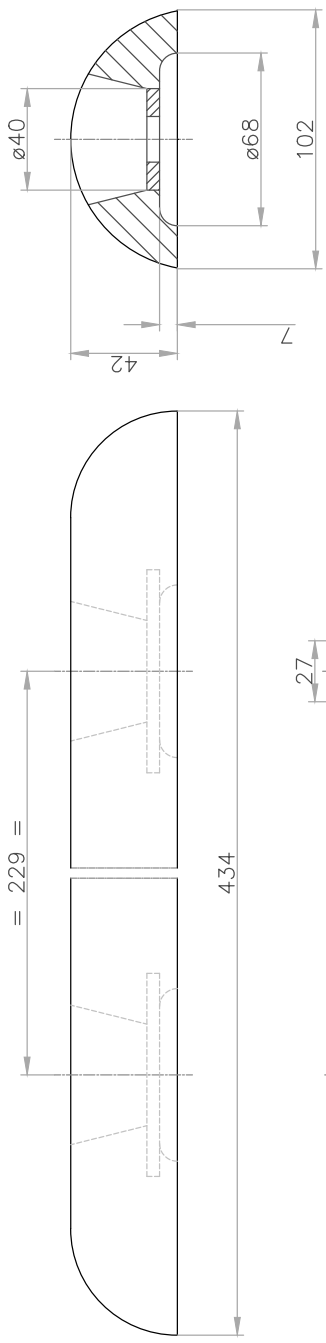
scale:n. t. s.	Art. No.:922365000	Weight: +/− 3%
drawn:	Dwg. No.:S 7572	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE EZ-4-B

Zinc alloy specifications acc. US MIL Spec-A-18001K
 Components Impurities Percentage (%)
 Cadmium 0,025-0,07
 Aluminum 0,10-0,5
 Iron 0,005 max
 Lead 0,005 max
 Zinc 0,006 max

Others total 0,10 max
 Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

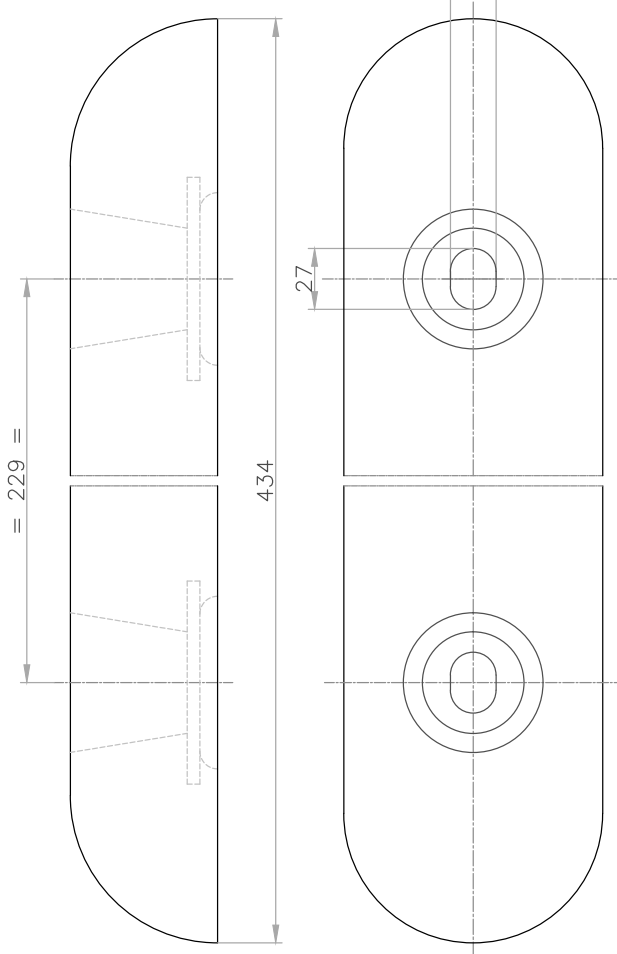
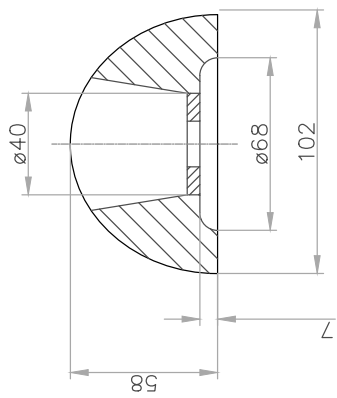
Solution potential

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ZINC ANODE:
 nett weight 6,5 kg
 gross weight 7,0 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>99,90-99,9</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		99,90-99,9	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de</p>	
Components	Impurities	Percentage (%)																									
Cadmium		0,025-0,07																									
Aluminum		0,10-0,5																									
Zinc		99,90-99,9																									
Copper		0,005 max																									
Iron		0,005 max																									
Lead		0,006 max																									
Others total		0,10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 922364000 Weight: + / - 3% Gen. Tol.: NACE SP0387</p>																									
<p>scale: n. t. s.</p>		<p>ANODE TYPE EZ-7-B</p>																									
<p>drawn: _____</p>		<p>Other specifications are available on request</p>																									
<p>date: _____</p>		<p>Note: All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>																									
<p>_____</p>		<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>																									

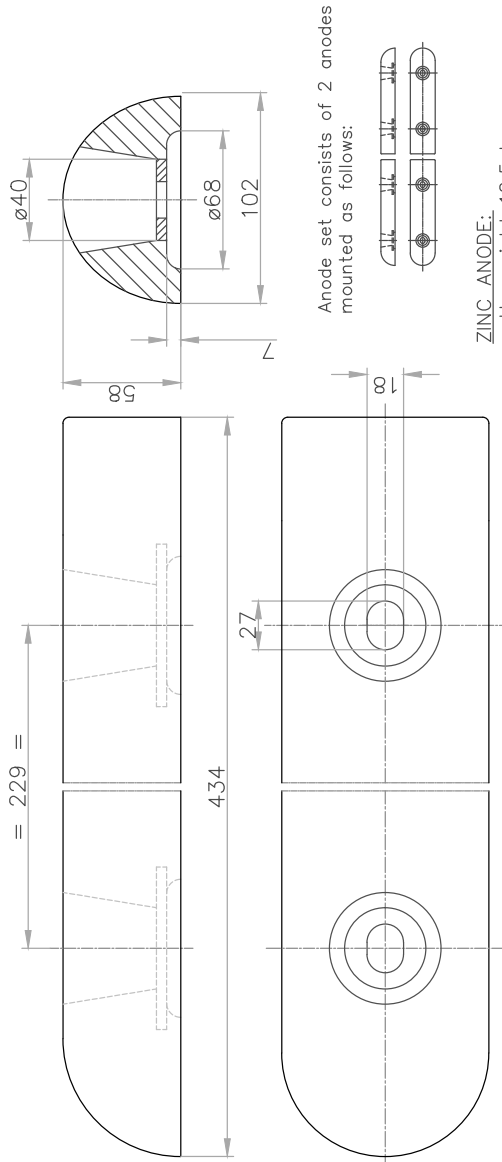


ZINC ANODE:
 nett weight 11,5 kg
 gross weight 12,0 kg

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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
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Zinc alloy specifications acc. US MIL Spec-A-18001K		scale: t.s.	
Components	Impurities	drawn:	date:
Cadmium	0,025-0,07		
Aluminum	0,10-0,5		
Zinc	99,95 max		
Copper	0,005 max		
Iron	0,005 max		
Lead	0,006 max		
Others total	0,10 max		
Electrochemical capacity	1000 vs. Ag/AgCl reference cell nominal (in seawater)		
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)		
		ANODE TYPE EZ-12-B	
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ZINC ANODE:
 nett weight 12,5 kg
 gross weight 13,0 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,905 max
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max

Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

Solution potential:

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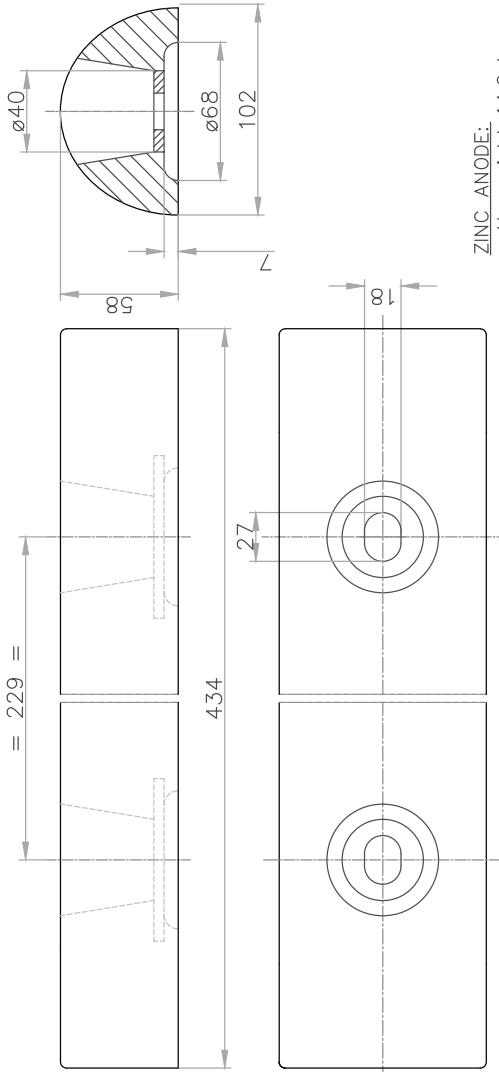
Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t. s.	Art. No.:922366000	Weight: +/− 3%
drawn:	Dwg. No.:S 7589	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	

ANODE TYPE EZ-13-B

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ZINC ANODE:
 nett weight 14,0 kg
 gross weight 14,5 kg

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

Art. No.: 922375000	Weight: + / - 3%
Dwg. No.: S 7751	Gen. Tol.: NACE SP0387
Dim.: A-4	

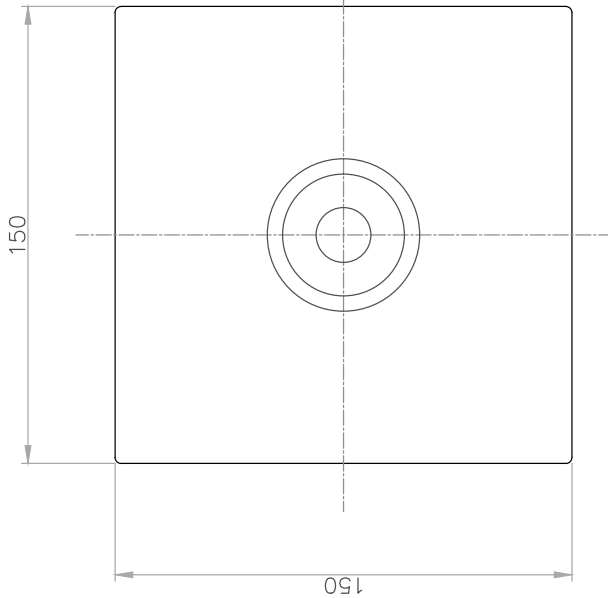
ANODE TYPE EZ-14.5-B

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,875-99,975

Component	Limit
Copper	0,005 max
Iron	0,005 max
Lead	0,006 max
Others total	0,10 max
Electrochemical capacity	1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

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ZINC ANODE:

nett weight: 4,3 kg
gross weight: 4,5 kg

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

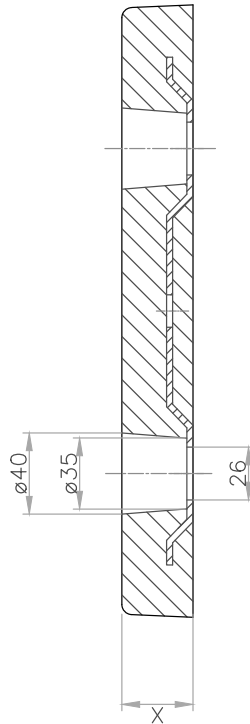
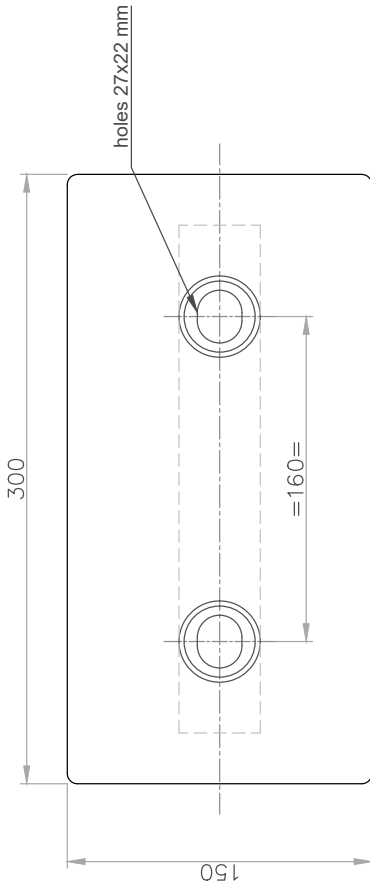
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drawn:	Dwg. No.: S 5717	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 43-Z-B

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc 0,005 max

Copper 0,005 max
Iron 0,005 max
Lead 0,006 max
Others total 0,10 max
Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential:

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X	Anode	Weight
35	97-Z-B	9,7 kg
40	125-Z-B	12,5 kg
50	145-Z-B	14,5 kg

Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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scale: t.s.	Art. No.:	Weight: +/− 3%
drawn:	Dwg. No.:	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

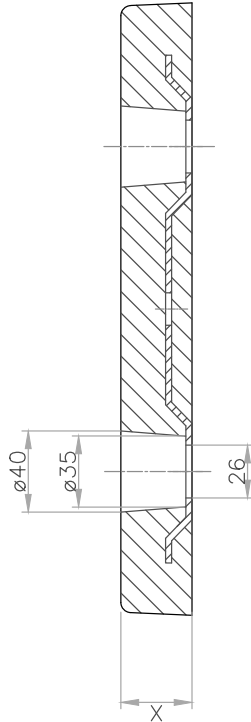
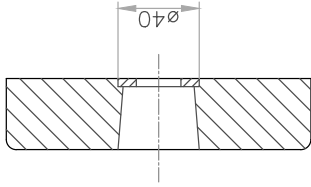
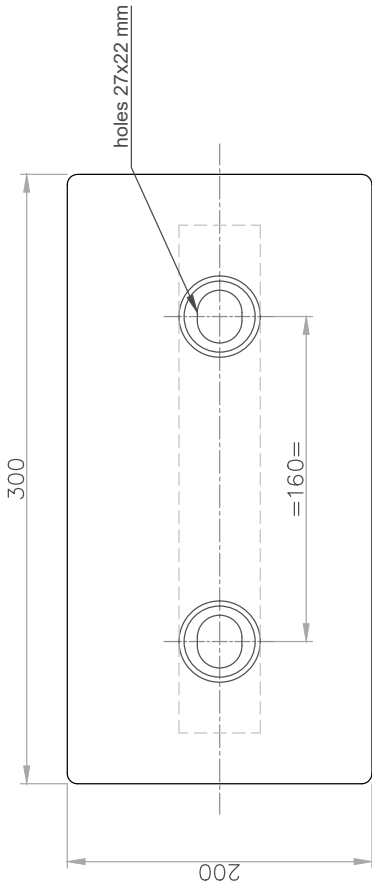
Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc 0,005 max

Copper 0,005 max
Iron 0,006 max
Lead 0,006 max
Others total 0,10 max

Electrochemical capacity: nominal
Solution potential: -1050 vs. Ag/AgCl (reference cell nominal (in seawater))

ANODE TYPE Z-B

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X	Anode	Weight
60	162-Z-B	16,2 kg
65	220-Z-B	22 kg
70	275-Z-B	27,5 kg

Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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scale: n. t. s.	Art. No.:	Weight: + / - 3%
drawn:	Dwg. No.:	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc 0,005 max

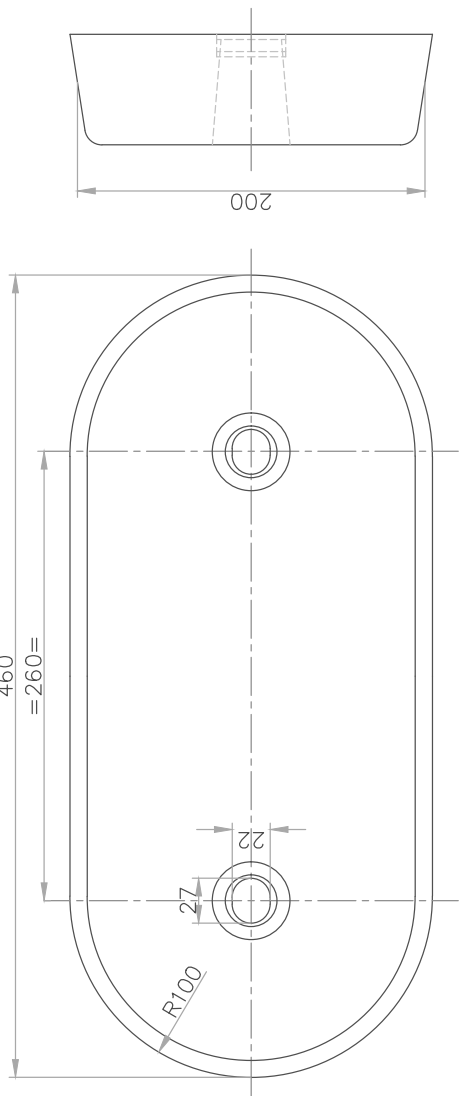
Copper 0,005 max
Iron 0,006 max
Lead 0,006 max
Others total 0,10 max

Electrochemical capacity: nominal
Solution potential: -1050 vs. Ag/AgCl (reference cell nominal (in seawater))

ANODE TYPE Z-B

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460
= 260 =



200

ZINC ANODE:

nett weight 30,5 Kg
gross weight 30,8 Kg

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

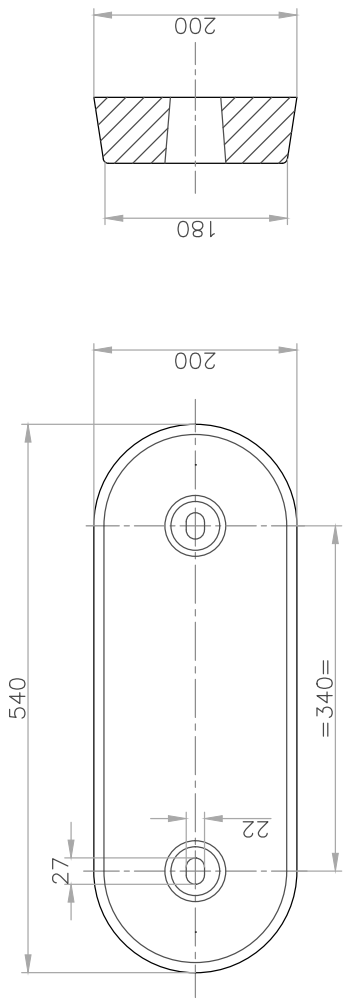
scale: n. t. s.	Art. No.: 326866000	Weight: + / - 3%
drawn:	Dwg. No.: S 11076	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 305-Z-B

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc 99,975-99,925

Copper 0,005 max
Iron 0,006 max
Lead 0,006 max
Others total 0,10 max
Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential

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ZINC ANODE:
 nett weight 39,2 kg
 gross weight 39,8 kg

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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
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 Anode can also be provided with a coated backside

scalen: t. s.	Art. No.: 323546000	Weight: + / - 3%
drawn:	Dwg. No.: S 8696	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 392-Z-B

Zinc alloy specifications acc. US MIL Spec-A-18001K

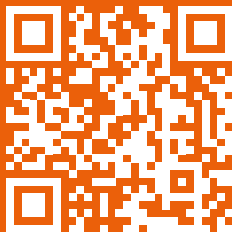
Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,905 max
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max
Electrochemical capacity:		1050 vs. Ag/AgCl
Solution potential:		reference cell nominal (in seawater)

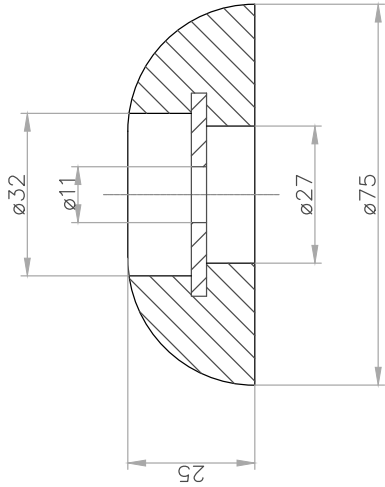
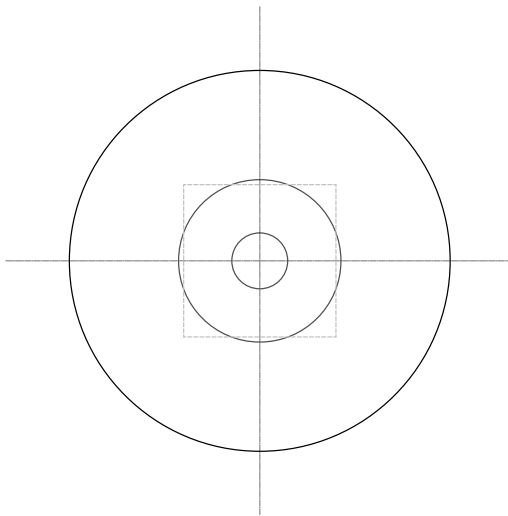
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ALUMINIUM BOLT-ON DISC ANODES

The next pages gives only a selection of types
we have available.

For contact scan QR-code





ALUMINIUM ANODE:

nominal weight 0,17 kg

Aluminum alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02
 0,02 Max
 0,10 - 0,15
 0,02 Max

2700 AlNiKg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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scale: n. t. s.
 drawn: _____
 date: _____

Art. No.: 922554000
 Dwg. No.: S 8054
 Dm.: A-4

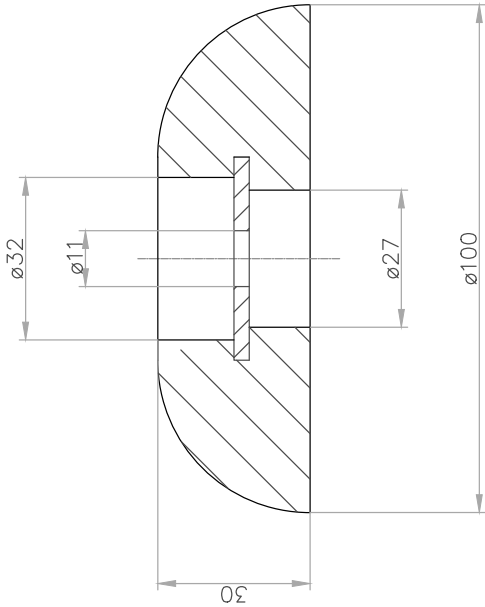
Weight: +/- 3%
 Ben. Tol.: NACE SP0387

ANODE TYPE EA-0.17-DB

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

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ALUMINIUM ANODE:

nominal weight 0,5 kg

Aluminium alloy specification
 Components: Inbrunites
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
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 Anode can also be provided with a coated backside

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scale: n. t. s.
 drawn: _____
 date: _____

Art. No.: 922555000

Dwg. No.: S 8060

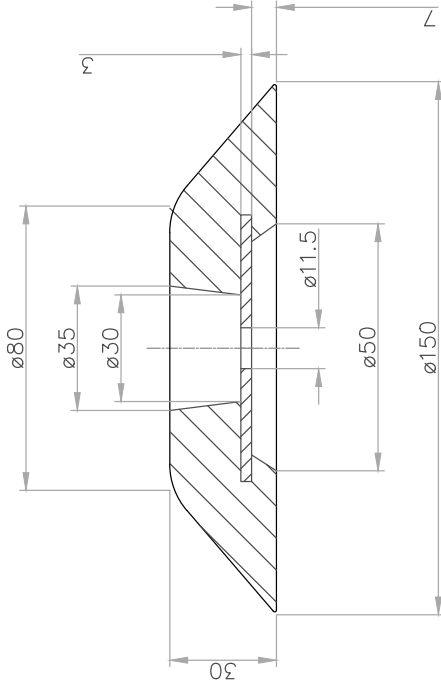
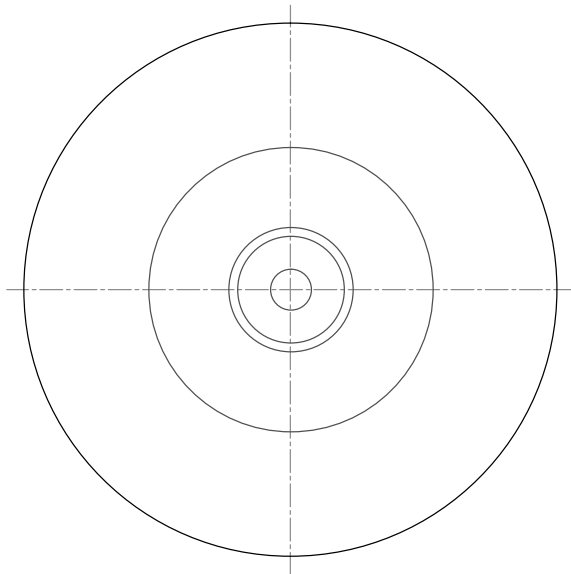
Dim.: A-4

Weight: +/- 3%

Ben. Tol.: NACE SP0387

ANODE TYPE EA-0.5-DB

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ALUMINIUM ANODE:

nominal weight 0,9 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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Other specifications are available on request

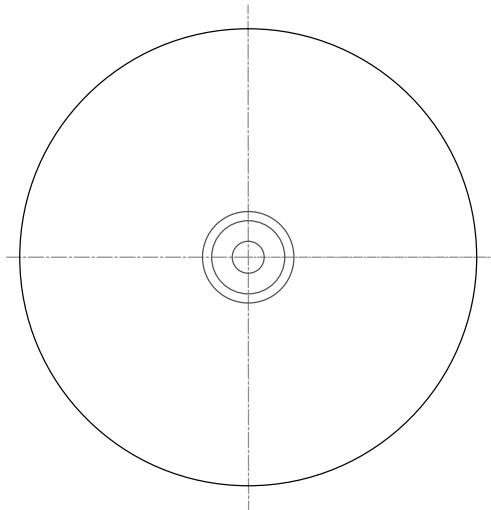
Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE EA-0-9-DB

scale: n. t. s. Art. No.: 922558000 Weight: +/- 3%
 Dwg. No.: S 8057 Ben. Tol.: NACE SP0387

drawn: Dm.: A-4
 date:

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ALUMINIUM ANODE:
nominal weight 1,0 kg

Aluminium alloy specification
 Components: Inbrunites
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

2700 Al/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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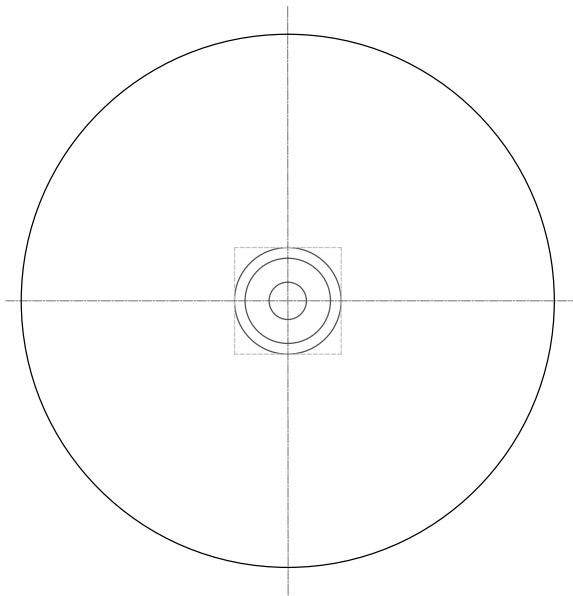
scale: n. t. s.
 drawn: date:
 Art. No.: 927114000 Weight: + / - 3%
 Dwg. No.: S 8519 Ben. Tol.: NACE SP0387
 Dim.: A - 4

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE EA-1.0-SB

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ALUMINIUM ANODE:
nominal weight 1,2 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0.10 - 0.15
 Zinc 2.0 - 5.0
 Titanium 0.01 - 0.05
 Iridium 0.01 - 0.05
 Aluminium
 Copper 0.02 Max
 Iron 0.10 - 0.15
 Others each 0.02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

Percentages (%)
 0.10 - 0.15
 2.0 - 5.0
 0.01 - 0.05
 0.01 - 0.05
 0.02 Max (99.95% Purity)
 0.02 Max
 0.10 - 0.15
 0.02 Max

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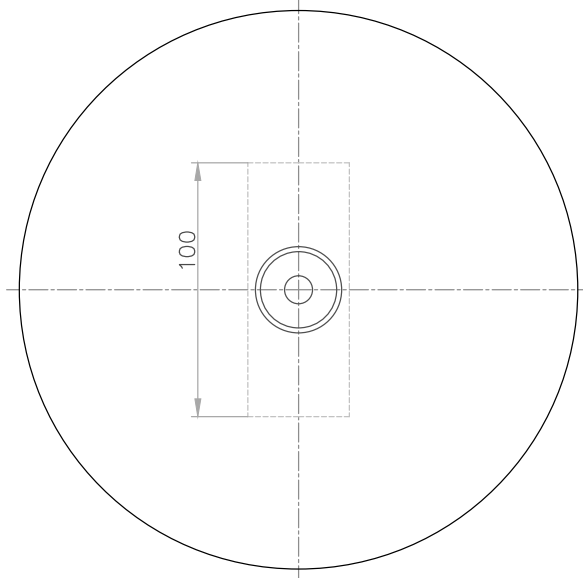
Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s.
 drawn:
 date:
 Art. No.: 923853000 Weight: +/− 3%
 Dwg. No.: S 8087 Ben. Tol.: NACE SP0387
 Dm.: A-4

ANODE TYPE EA-1.2-SB

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ALUMINIUM ANODE:

nett weight 2,60 kg

gross weight 2,69 kg

Aluminium alloy specification
 Components: Impurities
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05

Alloy: 99,95% Purity
 0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE EA-2.8-SB

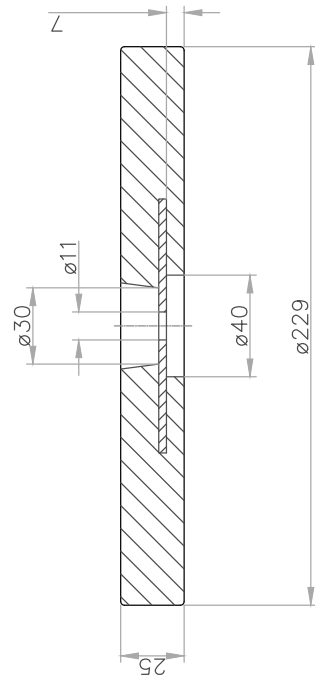
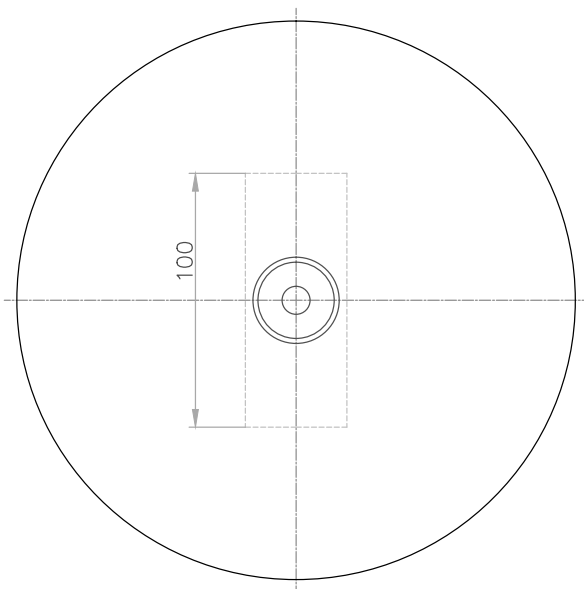
scale:n. t. s.
 drawn:
 date:

Art. No.:922552000 Weight: + / - 3%
 Ben. Tol.: NACE SP0387

Dwg. No.:S 8074
 Dfm.:A-4

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ALUMINIUM ANODE:
 nett weight 2,8 kg
 gross weight 3,0 kg

Aluminium alloy specification
 Components: Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Aluminium
 Copper 0,02 Max
 Iron 0,10 - 0,15
 Others each 0,02 Max

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

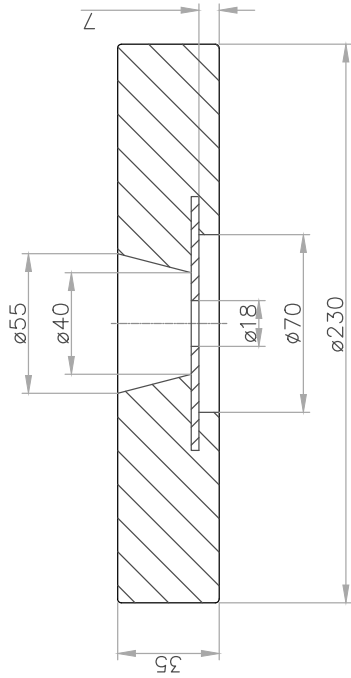
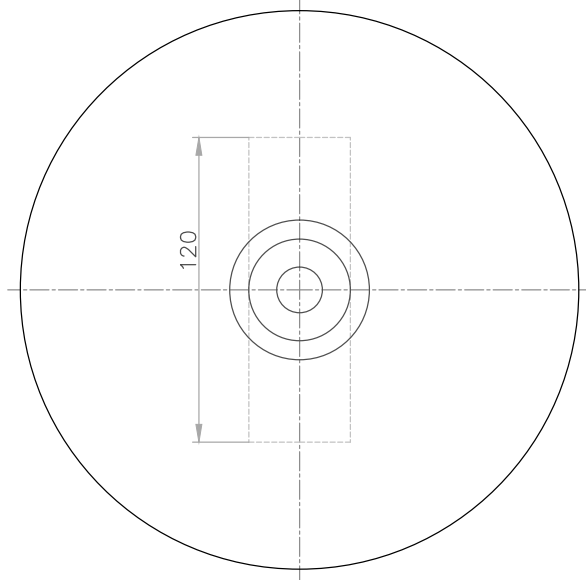
2700 Al/Hg (standard)
 -1100 mV vs. Ag/AgCl reference cell (normal (in seawater))

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 scale:n.t.s.
 drawn: date:

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Art. No.:922564000 Weight: +/− 3%
 Dwg. No.:S 8075 Ben. Tol.: NACE SP0387
 Dm.:A-4

Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside
ANODE TYPE EA-3-0-SB
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ALUMINIUM ANODE:

net weight 3,7 kg

gross weight 3,9 kg

Aluminium alloy specification
 Components: Inbrunites
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium
 Copper
 Iron
 Others each

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0

0,01 - 0,05
 0,01 - 0,05
 0,02 Max

0,02 Max
 0,10 - 0,15
 0,02 Max

Electrochemical capacity:
 Solution potential:
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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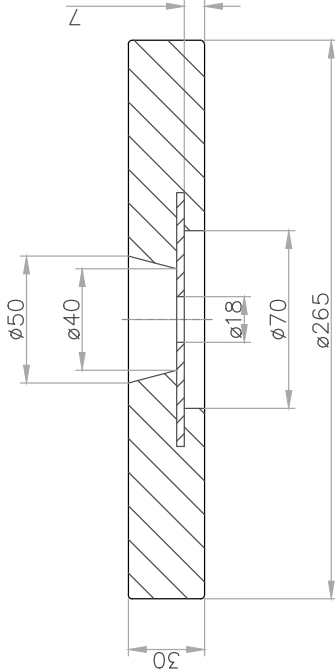
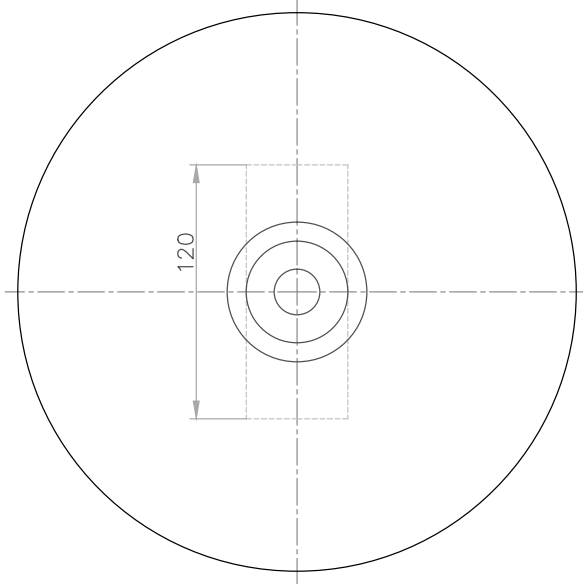
scale:n. t. s.
 drawn:
 date:

Art. No.:923591000 Weight: +/− 3%
 Dwg. No.:S 9331 Ben. Tol.: NACE SP0387
 Dim.:A-4 Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE EA-3-9-DB



ALUMINIUM ANODE:
 net weight 4,5 kg
 gross weight 4,7 kg

Aluminum alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium

Impurities
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05

Alloy grade (99,95% Purity)
 0,02 Max
 0,10 - 0,15
 0,02 Max

Copper
 Iron
 Others each

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

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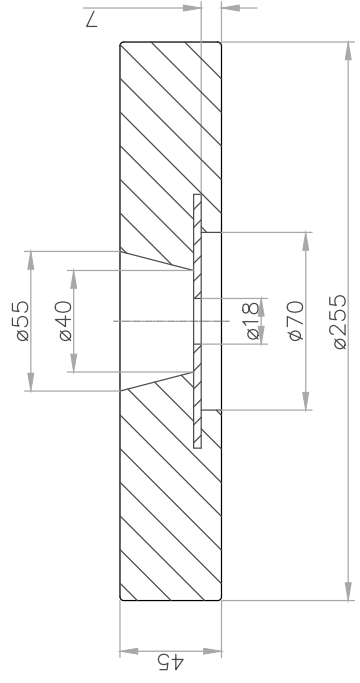
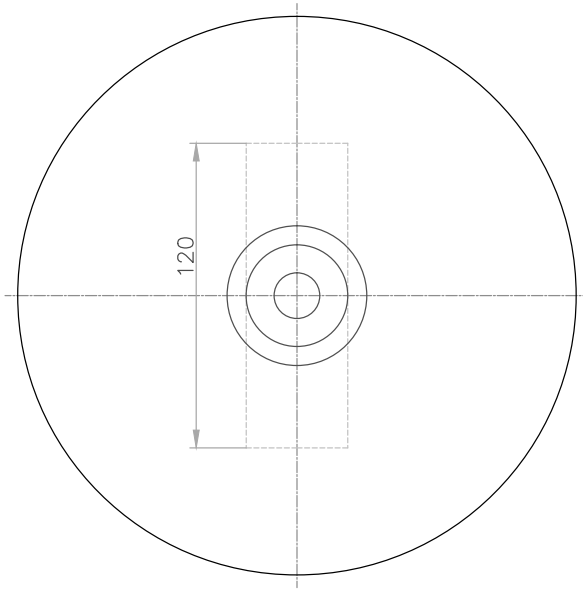
scale:n. t.s.
 drawn:
 date:

Art. No.: 1923198000
 Dwg. No.: S 8554
 Dim.: A-4

Weight: +/− 3%
 Ben. Tol.: NACE SP0387

ANODE TYPE EA-4.5-DB

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ALUMINIUM ANODE:
 net weight 6,0 kg
 gross weight 6,2 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity: Solution potential:	2700 Ah/Kg nominal -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)
scale:n. t.s.	Art. No.:923590000
drawn:	Dwg. No.:S 9522
date:	Per. Tol.: NACE SP0387

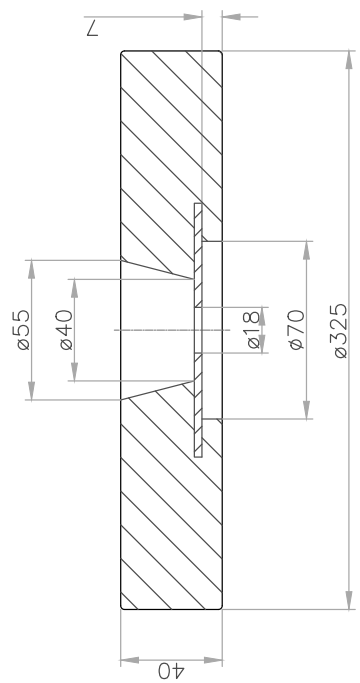
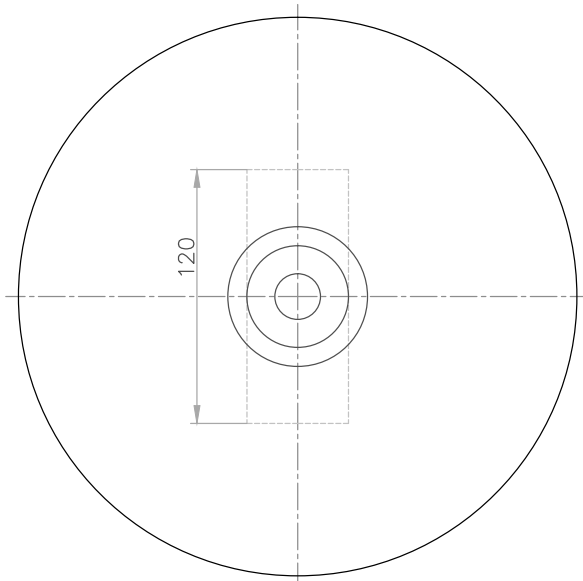
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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE EA-6-2-SB

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ALUMINIUM ANODE:
 net weight 9,0 kg
 gross weight 9,2 kg

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Iridium
 Aluminium

Percentages (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,02 Max
 0,10 - 0,15
 0,02 Max

2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:923197000	Weight: +/− 3%
drawn:	Dwg. No.:S 8553	ben. Tol.: NACE SP0387
date:	Dim.:A-4	

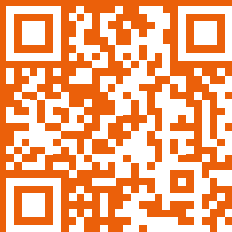
ANODE TYPE EA-9-0-DB

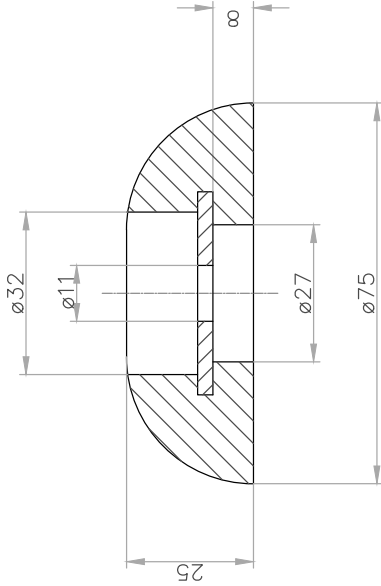
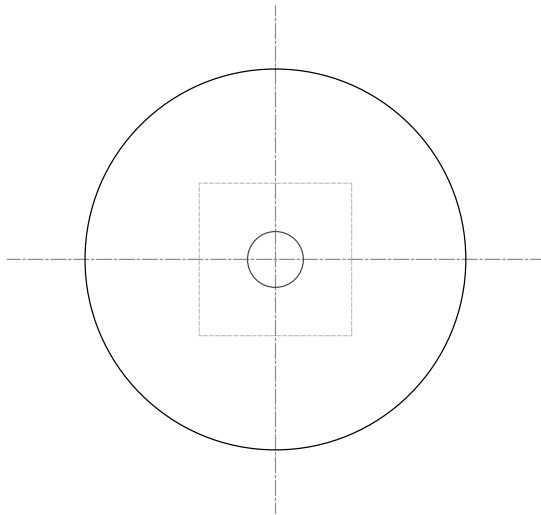
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ZINC BOLT-ON DISC ANODES

The next pages gives only a selection of types
we have available.

For contact scan QR-code





ZINC ANODE:

nominal weight 0,43 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components Impurities Percentage (%)

Cadmium 0,025-0,07

Aluminum 0,10-0,5

Zinc 99,895 max

Copper 0,005 max

Iron 0,005 max

Lead 0,006 max

Others total 0,10 max

Electrochemical capacity

Solution potential

-1050 vs. Ag/AgCl reference cell nominal (in seawater)

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm

All data is subject to change without prior notice

Anode can also be provided with a coated backside

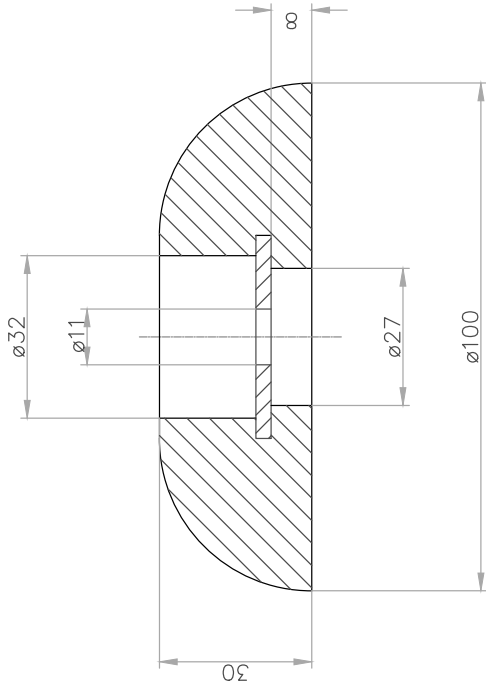
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drawn: Gen. Tol.: NACE SP0387

ANODE TYPE EZ-0.43-DB

Dwg. No.: S 7687

Dim.: A-4

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ZINC ANODE:

nominal weight 1,2 kg

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inf@ampak.de

Other specifications are available on request

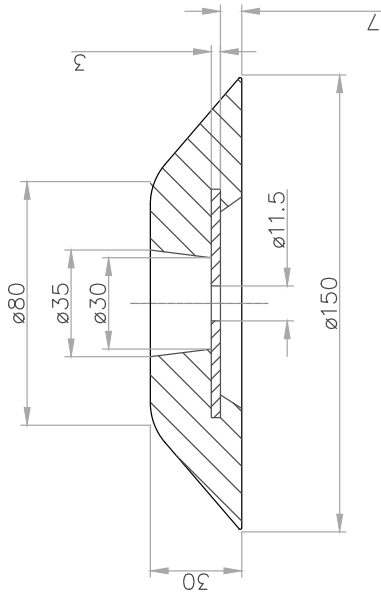
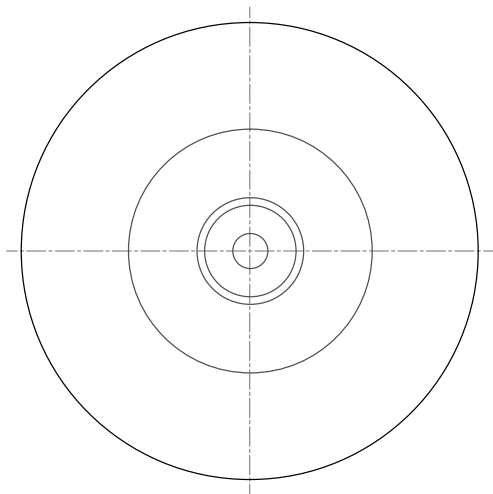
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n. t. s.	Art. No.: 922370000	Weight: + / - 3%
drawn:	Gen. No.: S 8059	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	ANODE TYPE EZ-1.2-DB

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc 0,005 max

Copper 0,005 max
Iron 0,006 max
Lead 0,006 max
Others total 0,10 max
Electrochemical capacity: nominal
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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ZINC ANODE:

nominal weight 2,3 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components Impurities Percentage (%)

Cadmium 0,025-0,07

Aluminum 0,10-0,5

Zinc 99,905 max

Copper 0,005 max

Iron 0,005 max

Lead 0,006 max

Others total 0,10 max

Electrochemical capacity 1000 vs. Ag/AgCl reference cell nominal (in seawater)

Solution potential

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scale: t. s.

Art. No.: 322369000 Weight: + / - 3%

Dwg. No.: S 7565 Gen. Tol.: NACE SP0387

drawn:

Dim.: A-4

date:

Other specifications are available on request

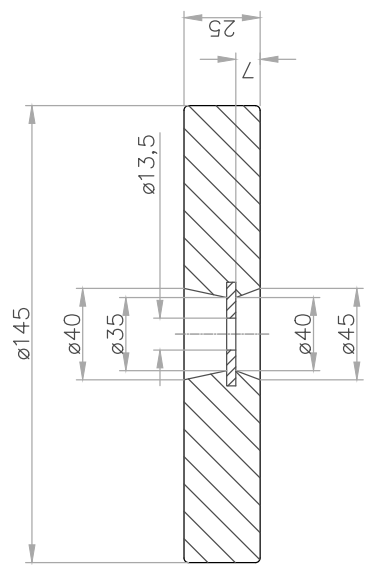
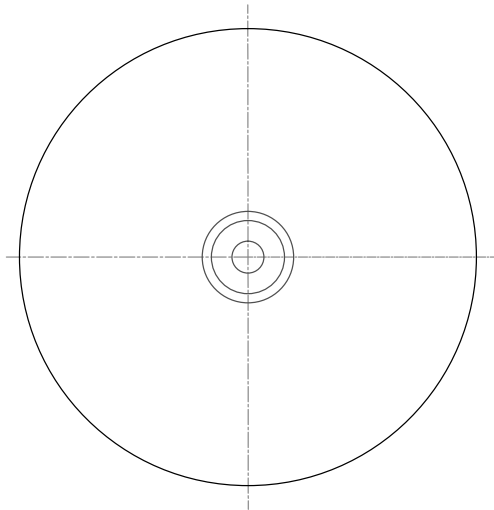
Note: All dimensions and weights are nominal. Dimension in mm

All data is subject to change without prior notice

Anode can also be provided with a coated backside

ANODE TYPE EZ-2.3-DB

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ZINC ANODE:
nominal weight 2,6 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,875-99,975
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max

Electrochemical capacity: 1000 Ah nominal
 Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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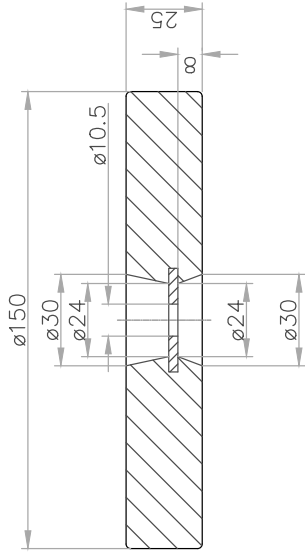
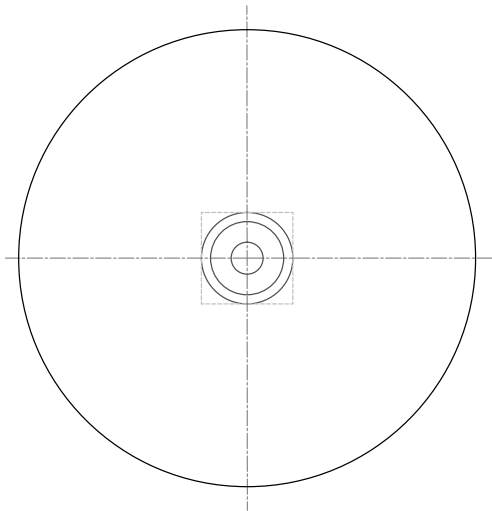
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 Fax: +31 (0) 345-633344
 @ampak.nl
 info@ampak.nl

Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 922382000	Weight: + / - 3%
drawn:	Dwg. No.: S 8352	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODETYPE EZ-2.6-SB

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ZINC ANODE:
nominal weight 3,0 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,875-99,975

Components	Impurities	Percentage (%)
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max

Electrochemical capacity:
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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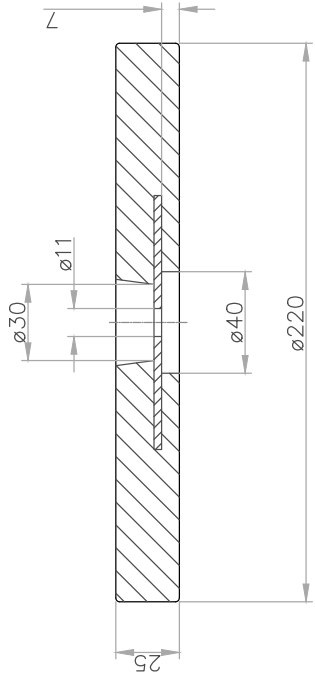
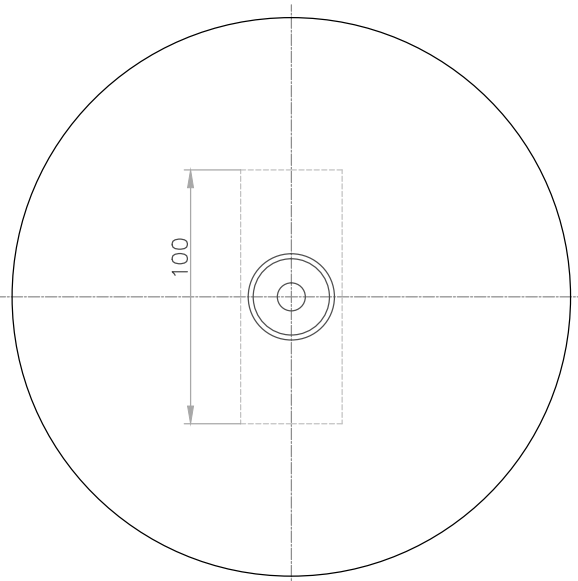
scale:n. t. s.	Art. No.:922377000	Weight: + / - 3%
drawn:	Dwg. No.:S 8085	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE EZ-3-SB

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ZINC ANODE:
 nett weight 6,6 kg
 gross weight 6,8 kg

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 info@ampak.de

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE EZ-6-8-SB

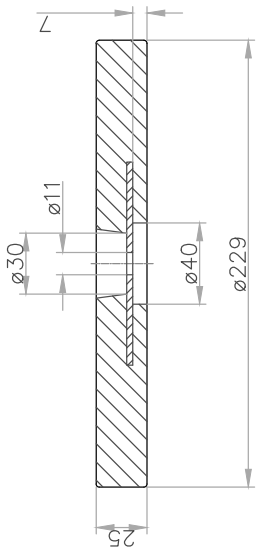
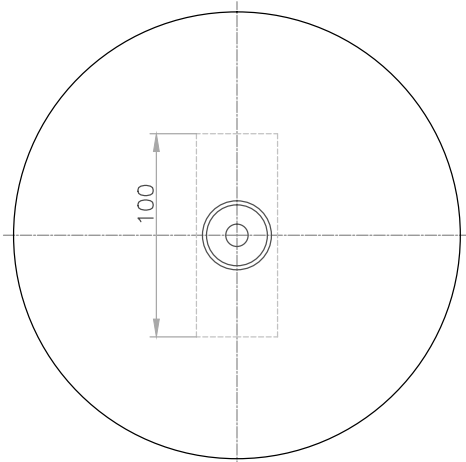
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scale:n. t. s.
 drawn:
 date:

Art. No.: 922363000 Weight: + / - 3%
 Dwg. No.: S 7598 Gen. Tol.: NACE SP0387
 Dim.: A-4

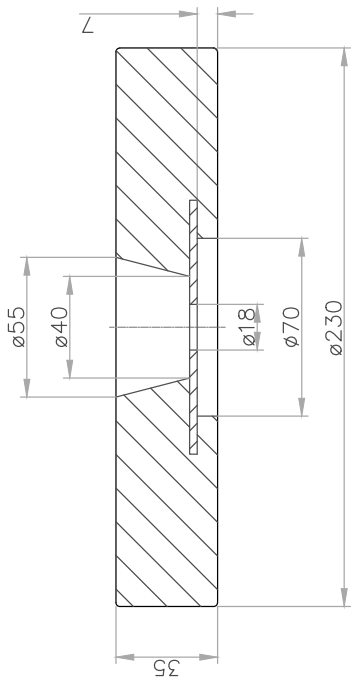
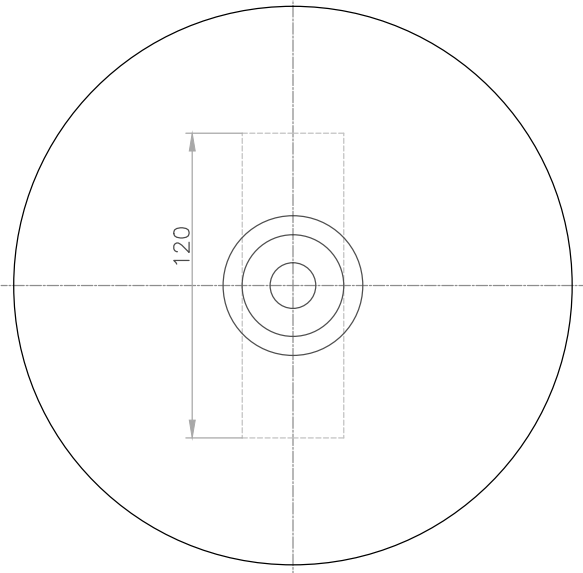
Zinc alloy specifications acc. US MIL Spec-A-18001K
 Components Impurities Percentage (%)
 Cadmium 0,025-0,07
 Aluminum 0,10-0,5
 Lead 0,005 max
 Copper 0,005 max
 Iron 0,005 max
 Lead 0,006 max
 Others total 0,10 max
 Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)
 Solution potential:

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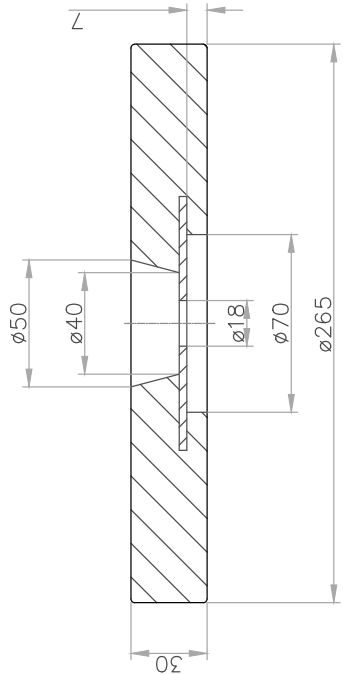
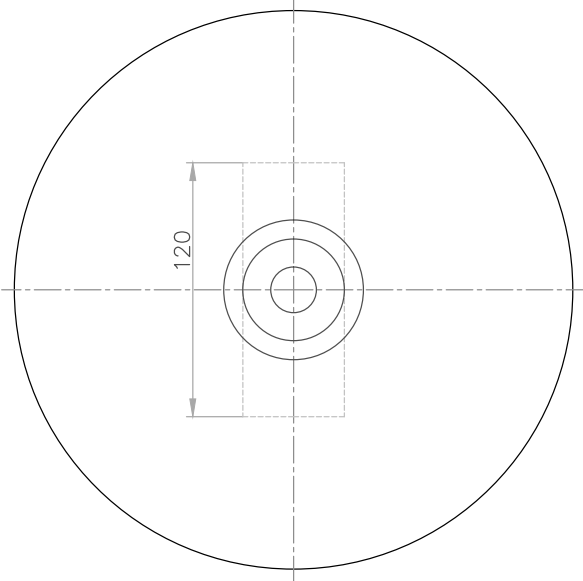
ZINC ANODE:
 nett weight 7,2 kg
 gross weight 7,4 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Chromium</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Chromium		0,10-0,5	Aluminum		0,005 max	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl www.ampak.nl</p>	
Components	Impurities	Percentage (%)																									
Cadmium		0,025-0,07																									
Chromium		0,10-0,5																									
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Copper		0,005 max																									
Iron		0,005 max																									
Lead		0,006 max																									
Others total		0,10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 3922368000 Weight: + / - 3% Dwg. No.: S 7597 Gen. Tol.: NACE SP0387 Dim.: A-4</p>																									
<p>Other specifications are available on request</p> <p>Note: All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>		<p>ANODE TYPE EZ-7.4-SB</p>																									
<p>scale: n. t. s.</p>		<p>drawn: _____ date: _____</p>																									



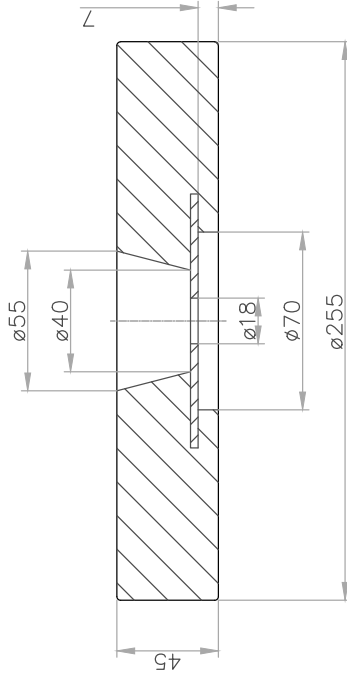
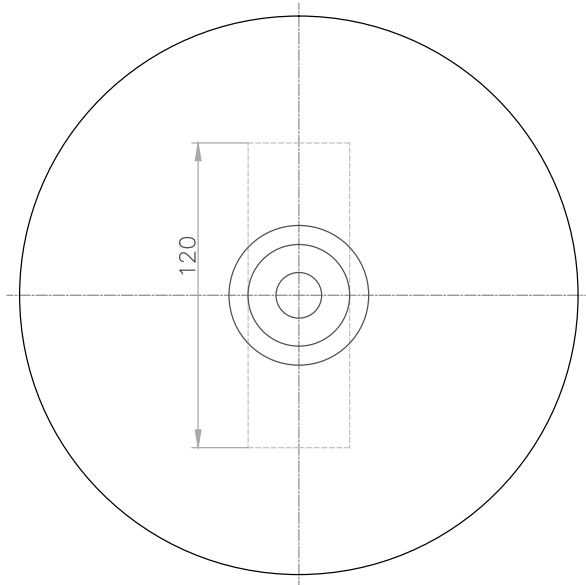
ZINC ANODE:
 net weight 9,8 kg
 gross weight 10,0 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		0,005 max	Copper		0,005 max	Iron		0,005 max	Lead		0,005 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl http://www.ampak.nl</p>	
Components	Impurities	Percentage (%)																									
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Aluminum		0,10-0,5																									
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Lead		0,005 max																									
Others total		0,10 max																									
<p>Other specifications are available on request</p> <p>Note: All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>		<p>Art. No.: 923293000 Weight: +/- 3% Gen. Tol.: NACE SP0387</p>																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>ANODE TYPE EZ-10-SB</p>																									
<p>scale: n.t.s.</p>		<p>drawn: A-4</p>																									
<p>date:</p>		<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>																									



ZINC ANODE:
 net weight 12,0 kg
 gross weight 12,2 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		0,005 max	Copper		0,005 max	Iron		0,005 max	Lead		0,005 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl http://www.ampak.nl</p>	
Components	Impurities	Percentage (%)																									
Cadmium		0,025-0,07																									
Aluminum		0,10-0,5																									
Zinc		0,005 max																									
Copper		0,005 max																									
Iron		0,005 max																									
Lead		0,005 max																									
Others total		0,10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Other specifications are available on request</p>																									
<p>scale: n. t. s.</p>		<p>Art. No.: 923234000 Weight: +/- 3%</p>																									
<p>drawn:</p>		<p>Gen. Tol.: NACE SP0387</p>																									
<p>date:</p>		<p>ANODE TYPE EZ-12.2-SB</p>																									
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ZINC ANODE:
 net weight 15,7 kg
 gross weight 15,9 kg

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
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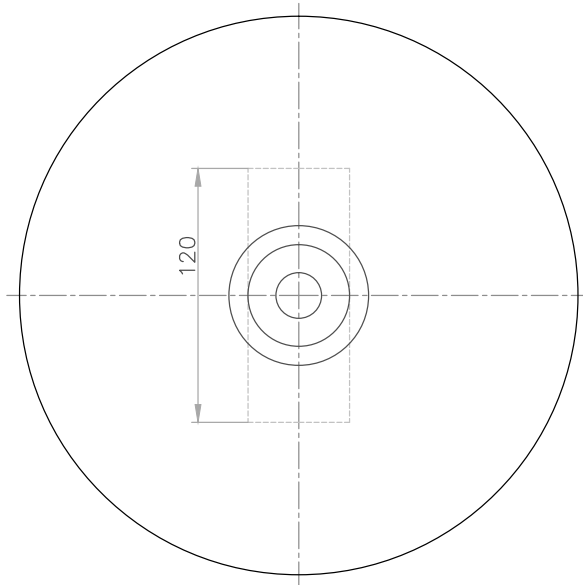
ANODE TYPE EZ-15.9-SB

scale: n. t. s.	Art. No.: 923294000	Weight: + / - .3%
drawn:	Dwg. No.: S 868.3	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0.025-0.07
Aluminum		0.10-0.5
Zinc		99.975

Component	Limit
Copper	0.005 max
Iron	0.005 max
Lead	0.006 max
Others total	0.10 max
Electrochemical capacity	-1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential	



ZINC ANODE:
 net weight 23,0 kg
 gross weight 23,2 kg

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE EZ-23.2-DB

scale: n. t. s.	Art. No.: 9271150000	Weight: + / - 3%
drawn:	Dwg. No.: S 9225	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

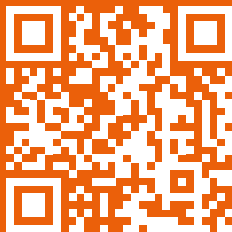
Zinc alloy specifications acc. US MIL Spec-A-18001K
 Components Impurities Percentage (%)
 Cadmium 0,025-0,07
 Aluminum 0,10-0,5
 Lead 0,005 max
 Copper 0,005 max
 Iron 0,005 max
 Lead 0,006 max
 Others total 0,10 max

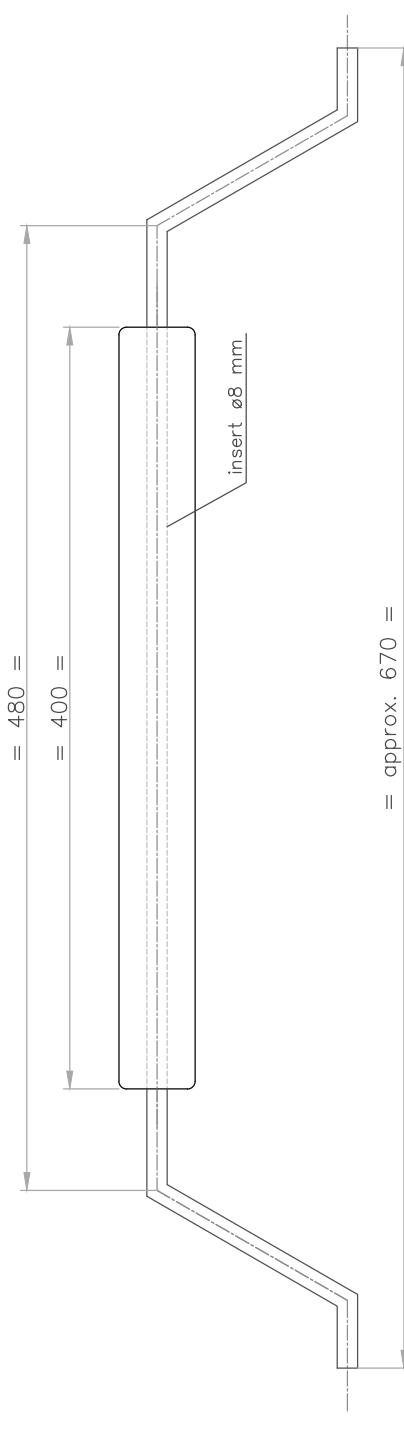
Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)
 Solution potential: -1050 vs. Ag/AgCl

ALUMINIUM TANK ANODES

The next pages gives only a selection of types
we have available.

For contact scan QR-code





ALUMINIUM ANODE:

nett weight 0,93 kg
gross weight 1,25 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
2700 Ah/Kg nominal
-1100 mV vs. Ag/AgCl reference cell/nominal (in seawater)

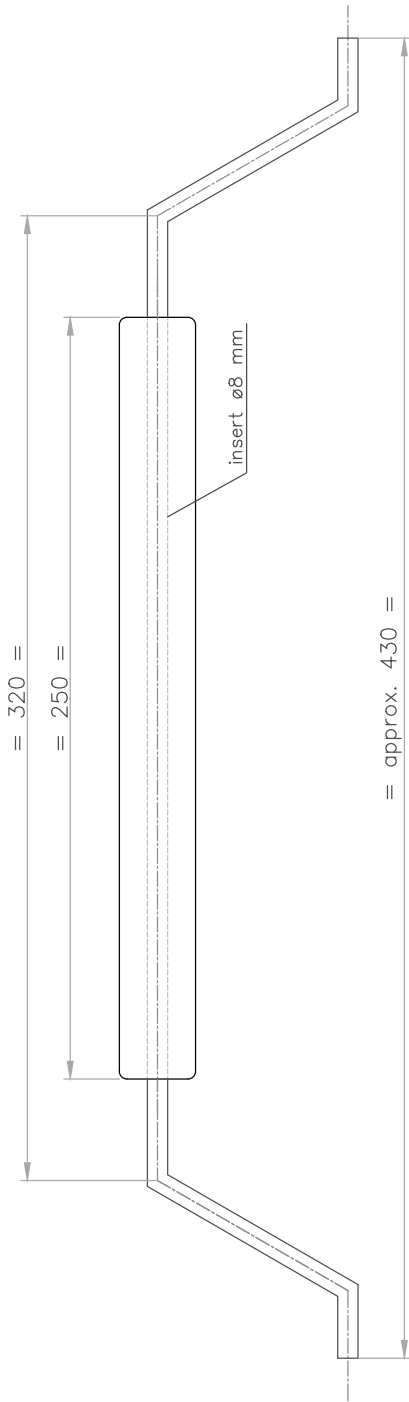
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info@ampak.de

Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:923934000	Weight: +/− 3%
drawn:	Dwg. No.: S 7677	Ben. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE T-9.3-AL-DC

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ALUMINIUM ANODE:

nett weight 0,93 kg

gross weight 1,25 kg

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

scale: n.t.s.
drawn:
date:

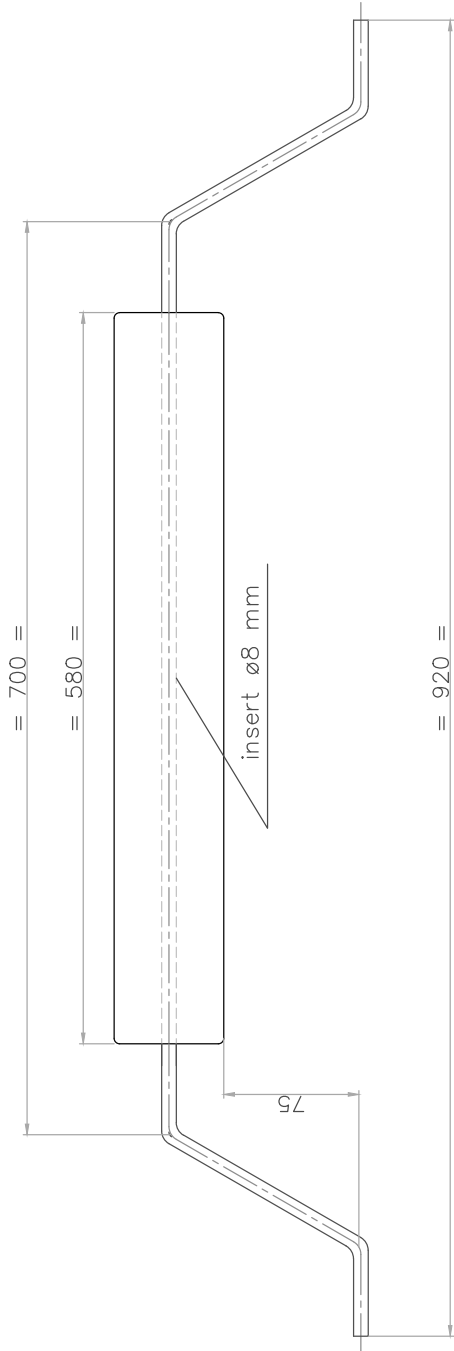
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info@ampak.de

Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

Art. No.: 923559000	Weight: +/- 3%
Dwg. No.: S 7801	Ben. Tol.: NACE SP0387
Dim.: A-4	ANODE TYPE T-17-AL-DC

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ALUMINIUM ANODE:
 Nett weight 2,6 kg
 Gross weight 3,0 kg

Aluminum alloy specification	Percentages (%)
Silicon	0,10 - 0,15
Magnesium	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminum	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

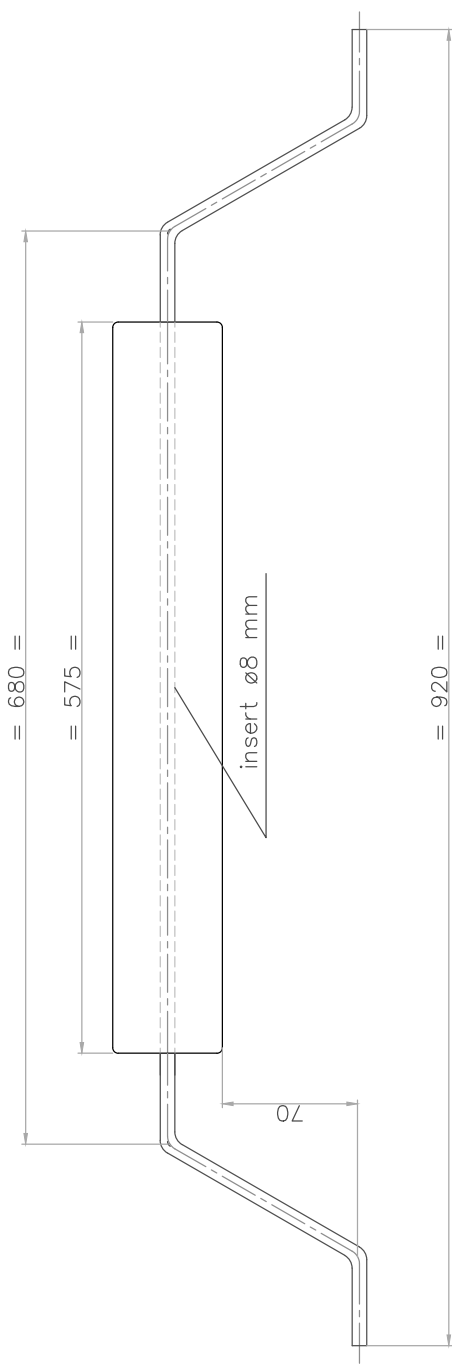
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 info@ampak.de

Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:922423000	Weight: +/− 3%
drawn:	Dwg. No.:S 5679	Ben. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE T-26-AL-DC

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ALUMINIUM ANODE:
 Nett weight 4,0 kg
 Gross weight 4,4 kg

Aluminium alloy specification	
Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

Percentages (%)
0,10 - 0,15
2,0 - 5,0
0,01 - 0,05
0,01 - 0,05
Balance (99,85% Purity)
0,02 Max
0,10 - 0,15
0,02 Max

scale:n. t.s.
 drawn:
 date:

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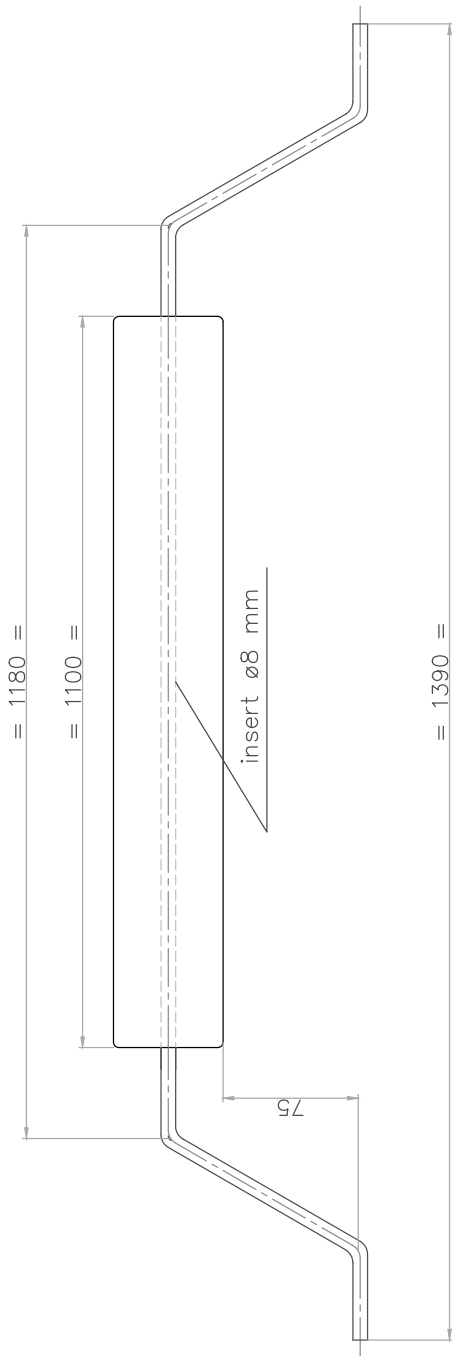
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 Fax +31 (0) 345-633444
 info@ampak.nl
 info@ampak.de

Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

Art. No.:922438000 | Weight: + / - 3%
 Dwg. No.:S 7701 | Ben. Tol.: NACE SP0387
 Dim.:A-4

ANODE TYPE T-40-AL-DC

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ALUMINIUM ANODE:
 Nett weight 4,5 kg
 Gross weight 5,1 kg

Aluminium alloy specification	
Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,95% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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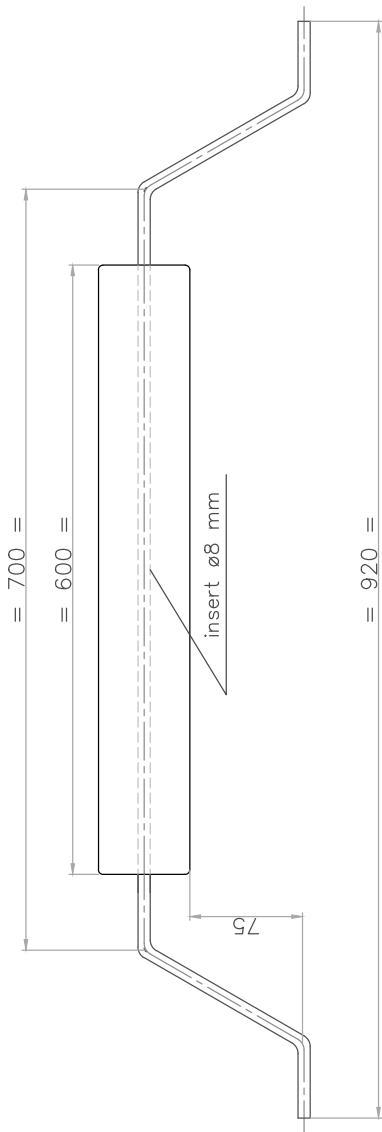
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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:922404000	Weight: +/− 3%
drawn:	Dwg. No.:S 5556	Ben. Tol.: NACE SP0387
date:	Drm.:A-4	ANODE TYPE T-45-AL-DC

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ALUMINIUM ANODE:
 nett weight 6,0 kg
 gross weight 6,5 kg

Aluminium alloy specification	Percentages (%)
Silicon	0,10 - 0,15
Magnesium	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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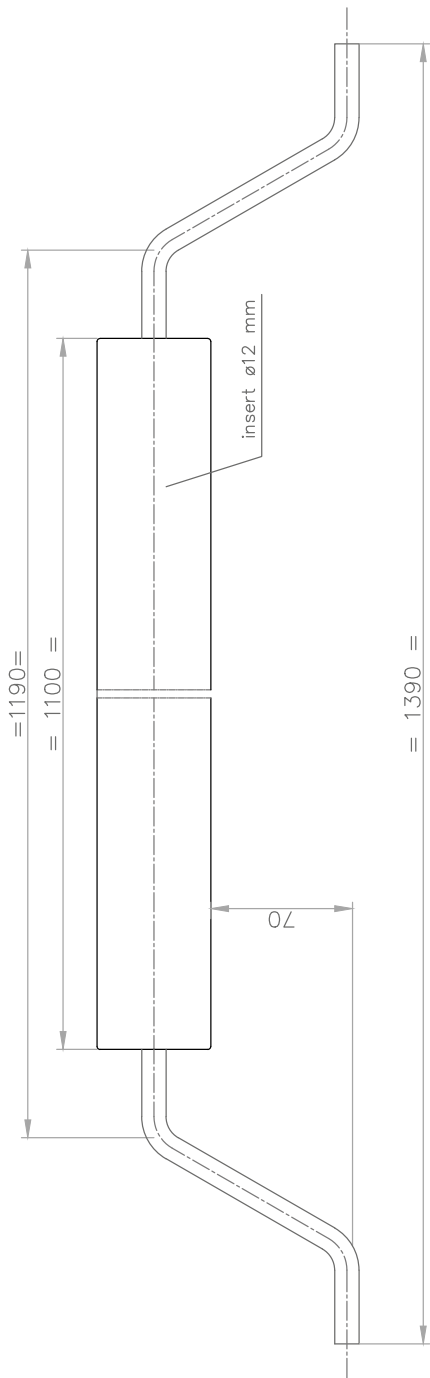
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 Fax +31 (0) 345-633344
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 info@ampak.de

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922442000	Weight: +/− 3%
drawn:	Dwg. No.:S 7665	Ben. Tol.: NACE SP0387
date:	Drm.:A-4	ANODE TYPE T-60-AL-DC

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ALUMINIUM ANODE:
 nett weight 9,0 kg
 gross weight 10,4 kg

Aluminium alloy specification	Percentages (%)
Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solvent potential:	-1100 mV vs Ag/AgCl reference cell/nominal (in seawater)

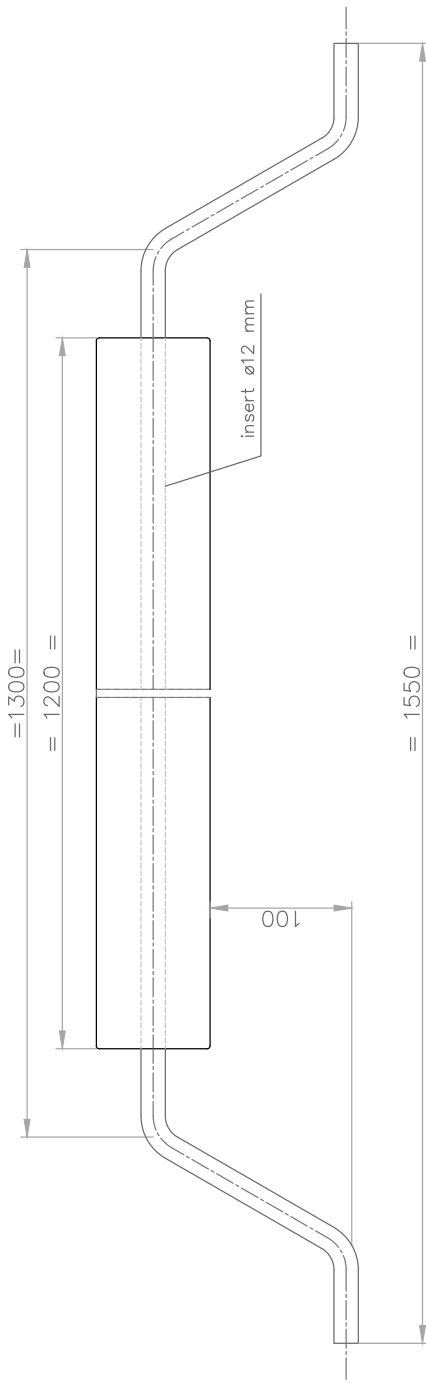
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Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922409000	Weight: +/− 3%
drawn:	Dwg. No.:S.5557	Ben. Tol.: NACE SP0387
date:	Drm.:A-4	
ANODE TYPE T-90-AL-DC		

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ALUMINIUM ANODE:

nett weight 12,5 kg
gross weight 14,0 kg

Aluminium alloy specification	Percentages (%)
Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 6,0
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV (vs Ag/AgCl) reference cell nominal (in seawater)

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scale: n. t. s.
drawn: _____
date: _____

Art. No.: 922416000 | Weight: + / - 3%
Dwg. No.: S 5653 | Ben. Tol.: NACE SP0387

Dim.: A - 4

ANODETYPE T-125-AL-DC

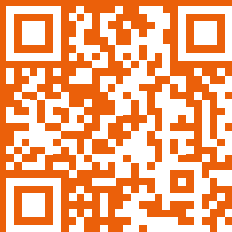
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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ZINC TANK ANODES

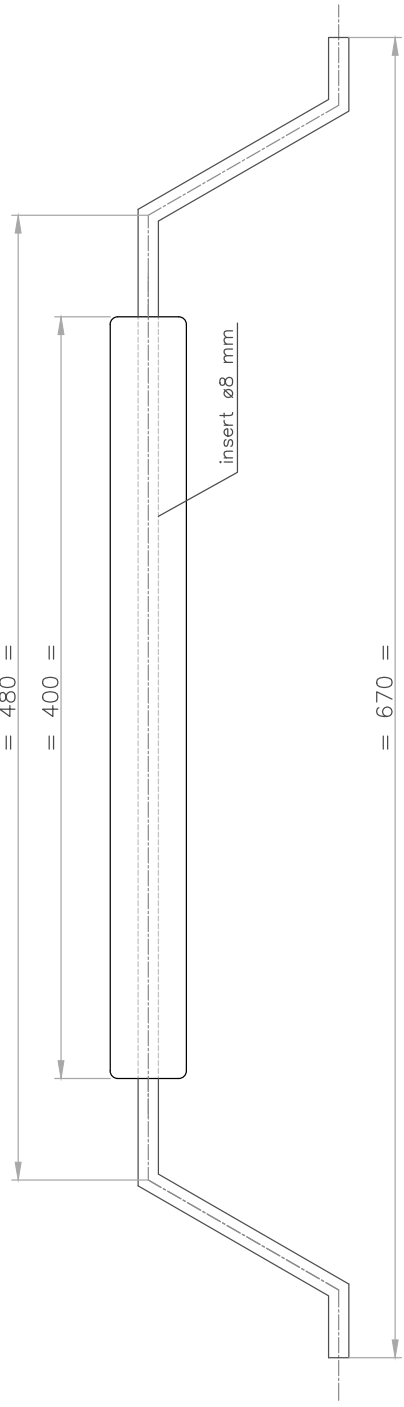
The next pages gives only a selection of types
we have available.

For contact scan QR-code



= 480 =

= 400 =



insert ø8 mm

= 670 =

ZINC ANODE:

nett weight 2,4 kg

gross weight 2,7 kg

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm

All data is subject to change without prior notice

Anode can also be provided with a coated backside

ANODE TYPE T-24-Z-DC

Art. No.: 927116000	Weight: + / - 3%
Dwg. No.: S 7817	Gen. Tol.: NACE SP0387
Dim.: A-4	

scale: n. t. s.

drawn:

date:

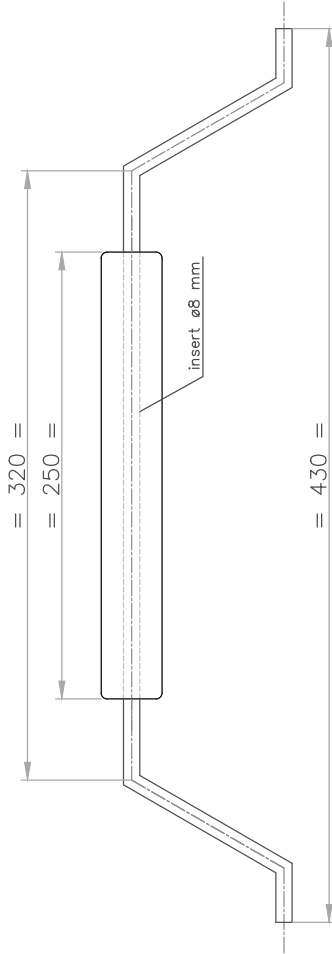
Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,905 max

Components	Impurities	Percentage (%)
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max

Electrochemical capacity: 1000 vs. Ag/AgCl (reference cell nominal in seawater)
Solution potential: -1050 vs. Ag/AgCl (reference cell nominal in seawater)

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ZINC ANODE:
 nett weight 4,3 kg
 gross weight 4,6 kg

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
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ANODE TYPE T-43-Z-DC

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Art. No.: 922110000 Weight: +/- 3%
 Dwg. No.: S 5755 Gen. Tol.: NACE SP0387
 Dim.: A-4

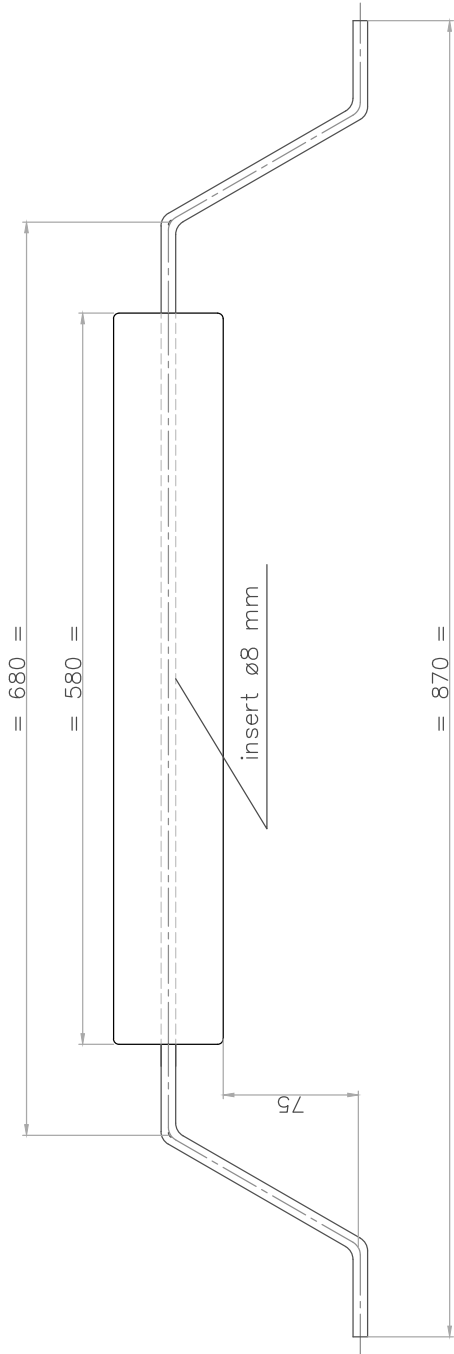
scale: n.t.s.
 drawn:
 date:

Zinc alloy specifications acc. US MIL Spec-A-18001K
 Components Impurities Percentage (%)
 Cadmium 0,025-0,07
 Aluminum 0,10-0,5
 Zinc 99,80-99,95

Copper 0,005 max
 Iron 0,005 max
 Lead 0,006 max
 Others total 0,10 max

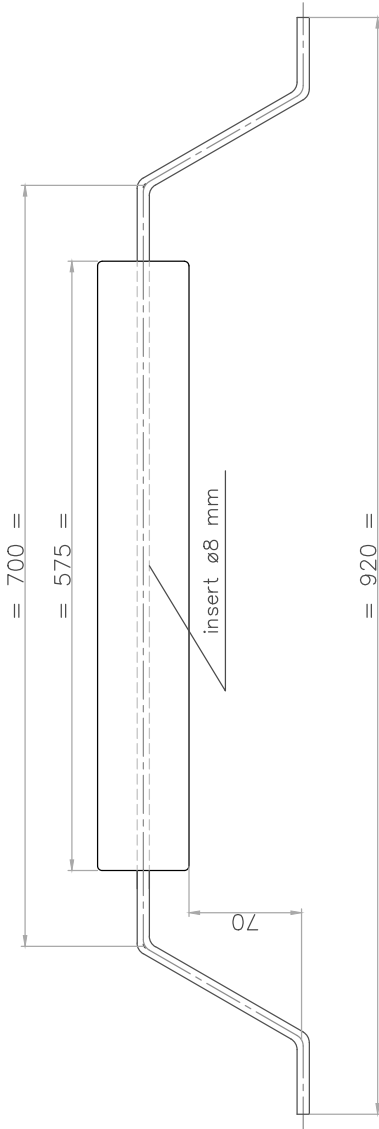
Electrochemical capacity: nominal
 Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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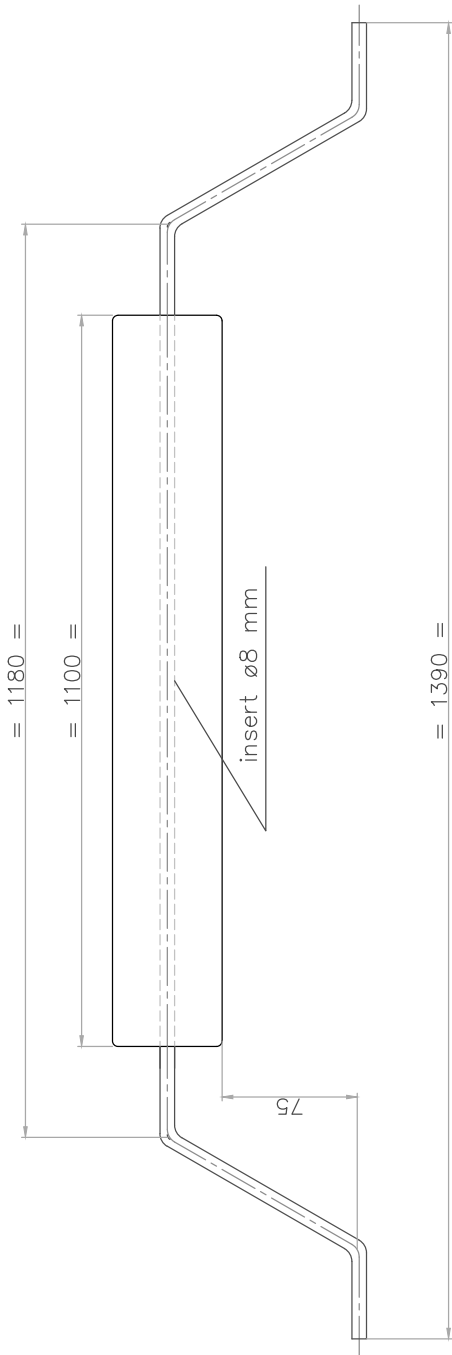
ZINC ANODE:
 Nett weight 7,3 kg
 Gross weight 7,7 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-1800-K Components Impurities Percentage (%) Cadmium 0,025-0,07 Aluminum 0,10-0,5 Zinc 0,005 max Copper 0,005 max Iron 0,005 max Lead 0,006 max Others total 0,10 max Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater) Solution potential</p>		<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de</p>		<p>Other specifications are available on request</p>	
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 922108000 Weight: + / - 3% Dwg. No.: S 5650 Gen. Tol.: NACE SP0387</p>		<p>ANODE TYPE T-73-Z-DC</p>	
<p>scale: n.t.s. drawn: date:</p>		<p>Dim.: A-4</p>		<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>	



ZINC ANODE:
 nett weight 10,0 kg
 gross weight 10,4 kg

<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>99,975 max</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p> <p>Solution potential:</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		99,975 max	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl http://www.ampak.nl</p>	
Components	Impurities	Percentage (%)																									
Cadmium		0,025-0,07																									
Aluminum		0,10-0,5																									
Zinc		99,975 max																									
Copper		0,005 max																									
Iron		0,005 max																									
Lead		0,006 max																									
Others total		0,10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Art. No.: 92363500 Weight: + / - 3% Dwg. No.: S 7694 Gen. Tol.: NACE SP0387 Dim.: A-4</p>																									
<p>scale: n.t.s. drawn: date:</p>		<p>Other specifications are available on request</p> <p>Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p> <p>ANODE TYPE T-100-Z-DC</p> <p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>																									



ZINC ANODE:

Nett weight 12,0 kg

Gross weight 12,6 kg

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
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Anode can also be provided with a coated backside

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Art. No.: 922104000 Weight: +/- 3%
Dwg. No.: S 4329 Gen. Tol.: NACE SP0387
Dim.: A-4

ANODE TYPE T-120-Z-DC

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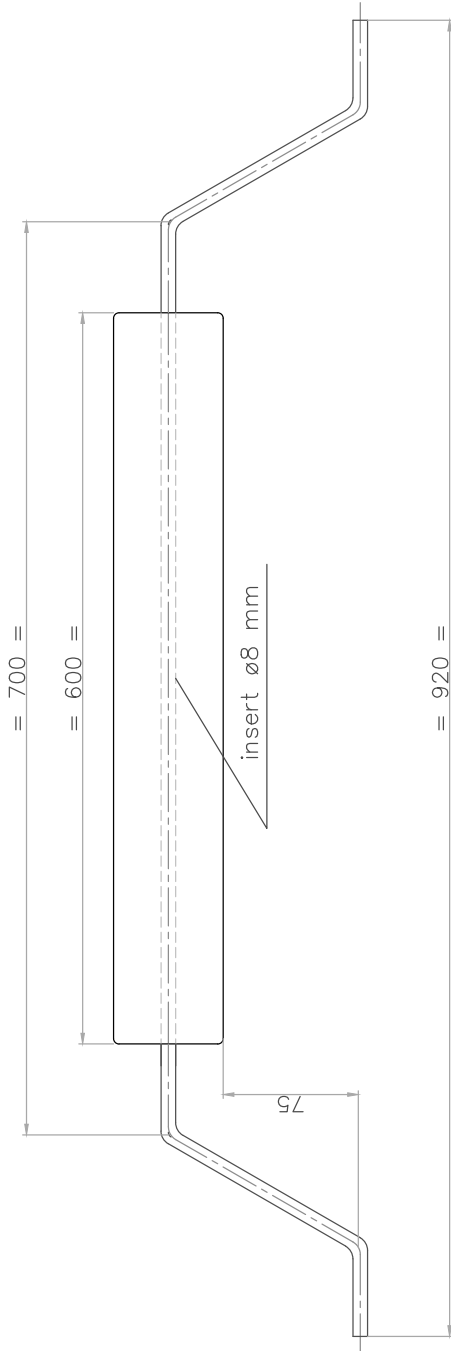
Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		100

Component	Percentage (%)
Copper	0,005 max
Iron	0,005 max
Lead	0,006 max
Others total	0,10 max

Electrochemical capacity: 1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

scale: n. t. s.
drawn: _____
date: _____



ZINC ANODE:
 Nett weight 15,3 kg
 Gross weight 15,8 kg

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
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Art. No.: 322135000	Weight: + / - 3%
Dwg. No.: S 7705	Gen. Tol.: NACE SP0387
Dim.: A-4	

ANODE TYPE T-153-Z-DC

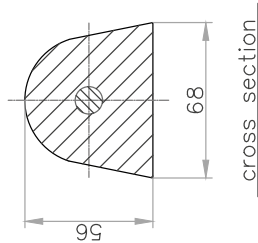
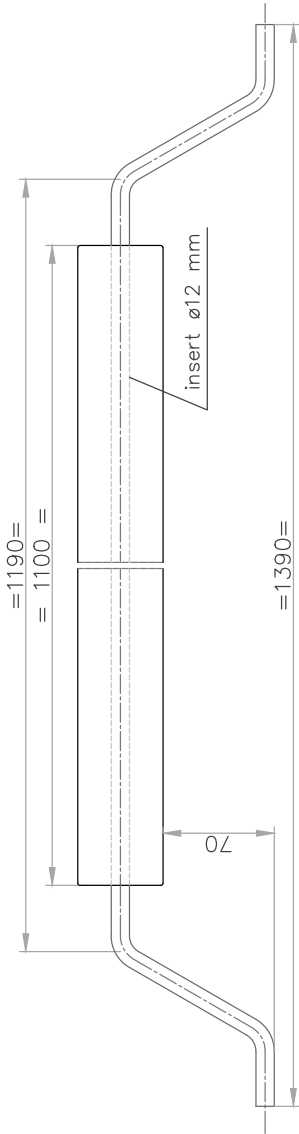
Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,975

Components	Impurities	Percentage (%)
Copper		0,005 max
Iron		0,005 max
Lead		0,006 max
Others total		0,10 max

Electrochemical capacity: nominal
 Solution potential: -1050 vs. Ag/AgCl (reference cell nominal (in seawater))

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ZINC ANODE:
 nett weight 22,0 kg
 gross weight 23,4 kg

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE T-220-Z-DC

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Art. No.: 922096000 Weight: +/- 3%

Dwg. No.: S 5651 Gen. Tol.: NACE SP0387

Dim.: A-4

scale: t.s.

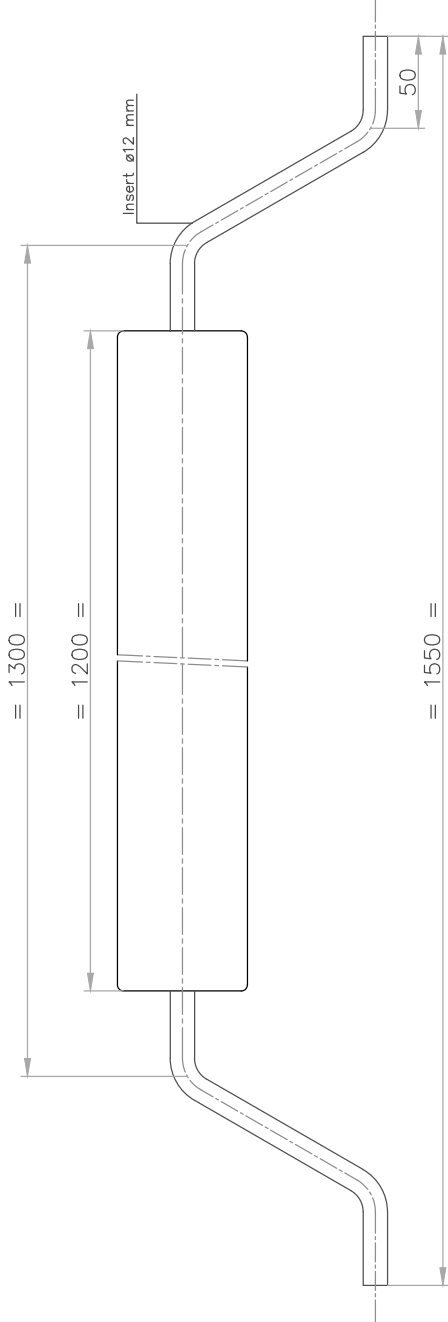
drawn:

date:

Zinc alloy specifications acc. US MIL Spec-A-18001K
 Components Impurities Percentage (%)
 Cadmium 0,025-0,07
 Aluminum 0,10-0,5
 Zinc 99,975-99,999

Copper 0,005 max
 Iron 0,005 max
 Lead 0,006 max
 Others total 0,10 max
 Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)
 Standard potential:

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ZINC ANODE:
 nett weight 32,0 kg
 gross weight 33,5 kg

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Other specifications are available on request

Note- All dimensions and weights are nominal. Dimension in mm
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Art. No.: 922100000	Weight: + / - 3%
Dwg. No.: S 5657	Gen. Tol.: NACE SP0387
Dim.: A-4	

ANODE TYPE T-320-Z-DC

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0,025-0,07
Aluminum		0,10-0,5
Zinc		99,975

Impurities	Percentage (%)
Copper	0,005 max
Iron	0,005 max
Lead	0,006 max
Others total	0,10 max

Electrochemical capacity: nominal
 Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

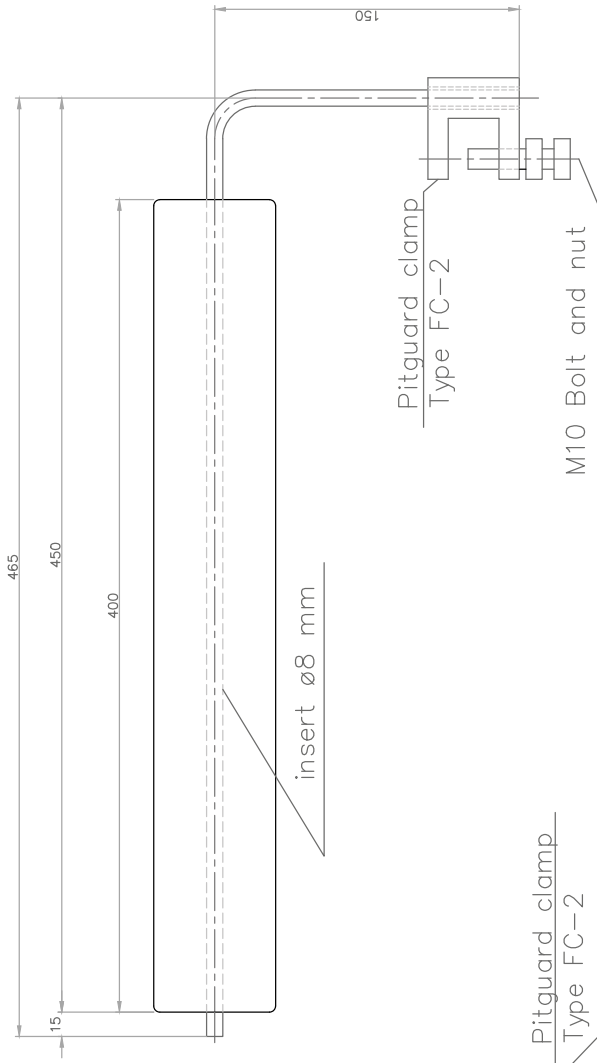
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ALUMINIUM PITGUARD ANODES

The next pages gives only a selection of types
we have available.

For contact scan QR-code





ALUMINIUM ANODE:

Nett weight 0,93 kg

Gross weight 1,4 kg (incl. clamp)

Aluminium alloy specification	Percentage (%)
Silicon	0,10 - 0,35
Iron	2,0 - 6,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Indium	0,02 Max
Aluminium	99,85% Purity
Copper	0,10 - 0,15
Iron	0,02 Max
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV (vs. Ag/AgCl) reference cell nominal (in seawater)

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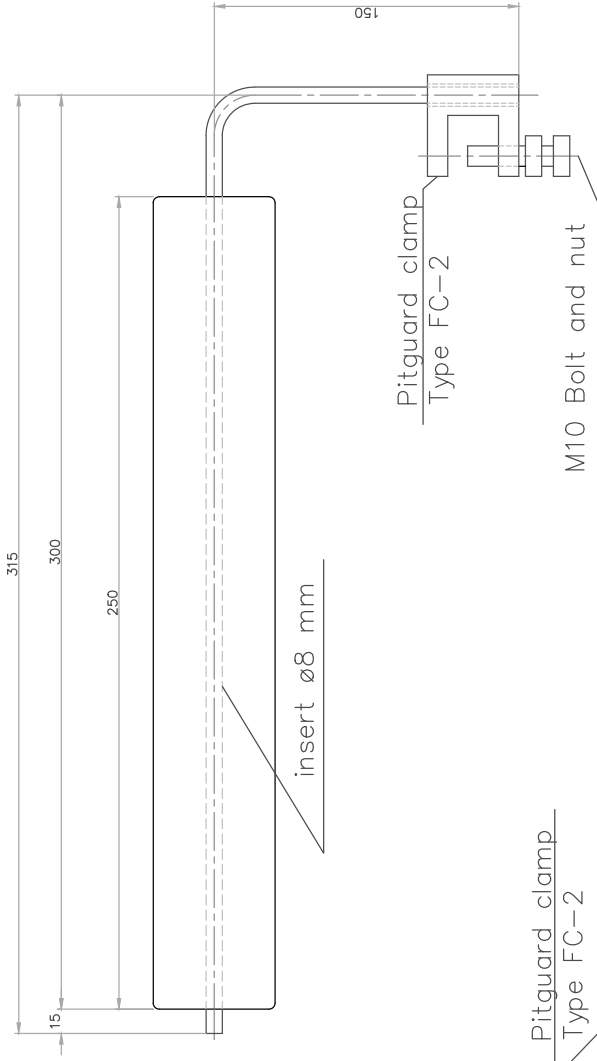
Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 922446000	Weight: +/− 3%
drawn:	Dwg. No.: S 7714	Ben.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE T-9.3-AL PITGUARD

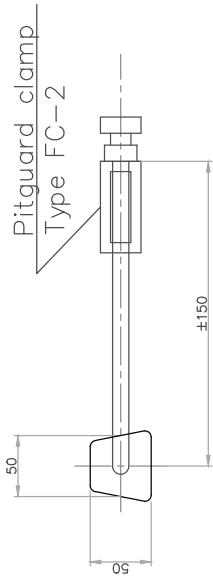
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Pitguard clamp
Type FC-2

M10 Bolt and nut

ALUMINIUM ANODE:
 Nett weight 1,70 kg
 Gross weight 2,20 kg (incl. clamp)



Pitguard clamp
Type FC-2

Aluminium alloy specification	Percentages (%)
Silicon	0,10 - 0,15
Iron	2,0 - 5,0
Zinc	0,01 - 0,05
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	Balance (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

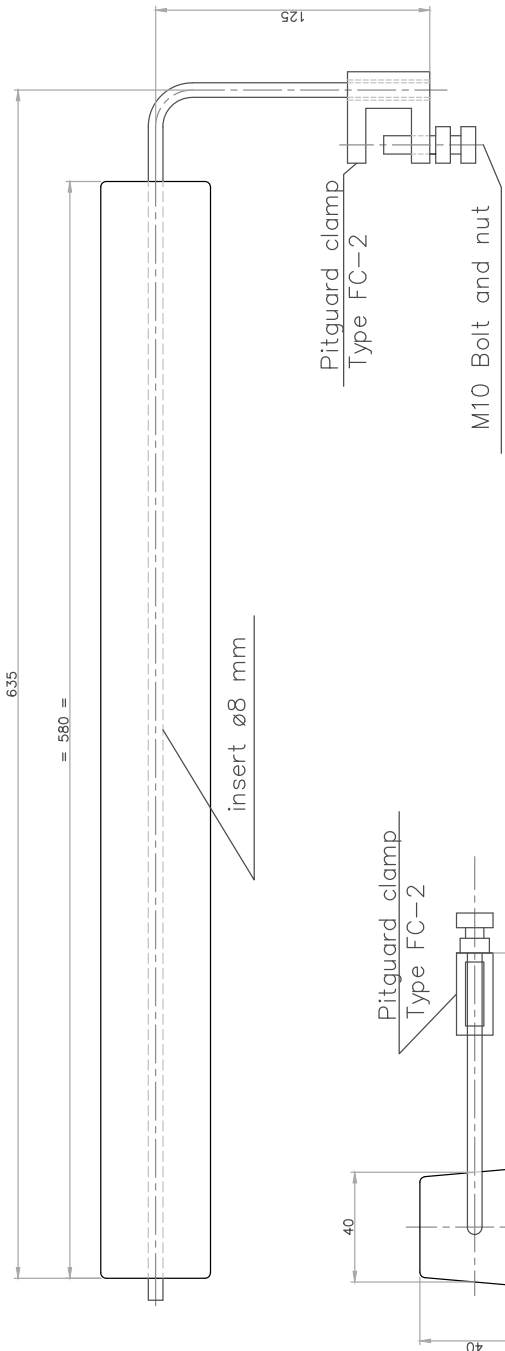
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scale:n.t.s.	Art. No.:926265000	Weight: +/− 3%
drawn:	Dwg. No.:S 10578	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	ANODE TYPE T-17-AL PITGUARD

Other specifications are available on request
 Note- All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

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Pitguard clamp
Type FC-2

M10 Bolt and nut

ALUMINIUM ANODE:

Nett weight 2,6 kg

Gross weight 3,1 kg (incl. clamp)

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	Alloy grade (99,95% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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info@ampak.de

Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 923652000	Weight: + / - 3%
drawn:	Dwg. No.: S 7715	Ben. Tol.: NACE SP0387
date:	Dim.: A - 4	

ANODE TYPE T-26-AL PITGUARD

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635

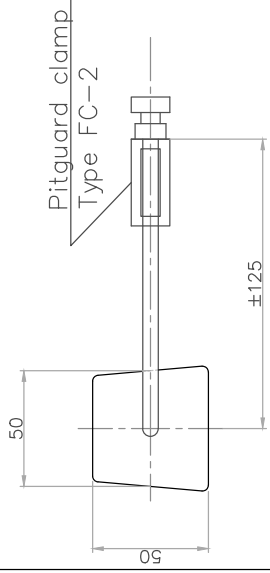
= 575 =

insert $\varnothing 8$ mm

125

Pitguard clamp
Type FC-2

M10 Bolt and nut



ALUMINIUM ANODE:

Nett weight 4,0 kg

Gross weight 4,5 kg (incl. clamp)

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Others each	0,02 Max
Copper	0,10 - 0,15
Iron	0,02 Max
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

Percentages (%)
0,10 - 0,15
2,0 - 5,0
0,01 - 0,05
0,01 - 0,05
0,02 Max
0,10 - 0,15
0,02 Max
0,02 Max

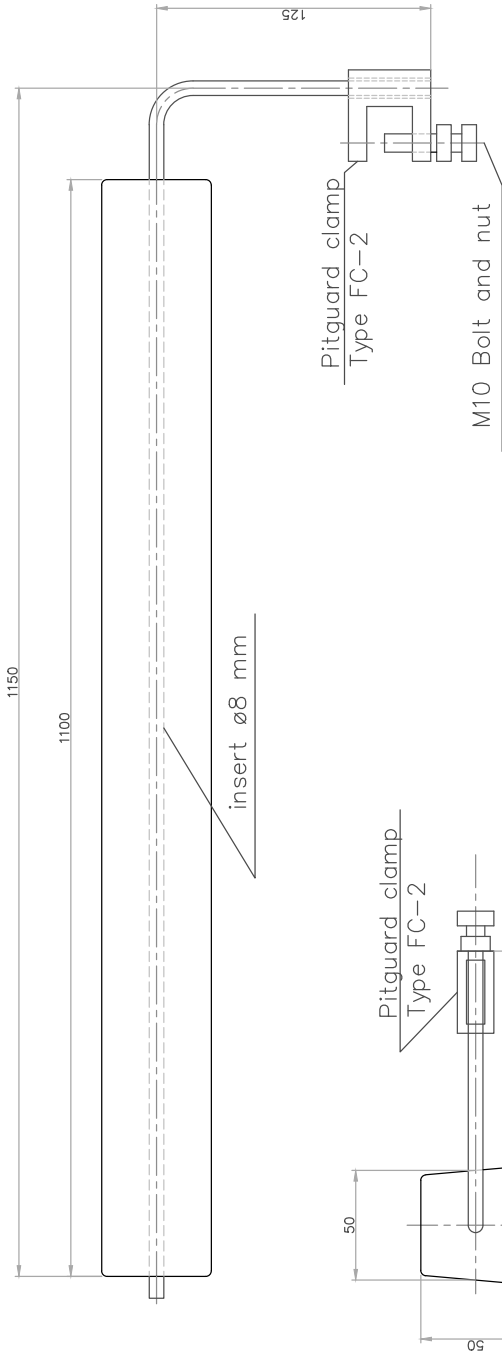
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drawn:	Dwg. No.:S 7860	Ben. Tol.: NACE SP0387
date:	Dim.:A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

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Other specifications are available on request
Note- All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE T-40-AL PITGUARD



ALUMINIUM ANODE:

Nett weight 4,5 kg

Gross weight 5,3 kg (incl. clamp)

Aluminium alloy specification

Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Iridium	0,01 - 0,05
Aluminium	99,85% (99,85% Purity)
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max

Electrochemical capacity:
Solution potential:
-1100 mV vs. Ag/AgCl reference cell (normal in seawater)

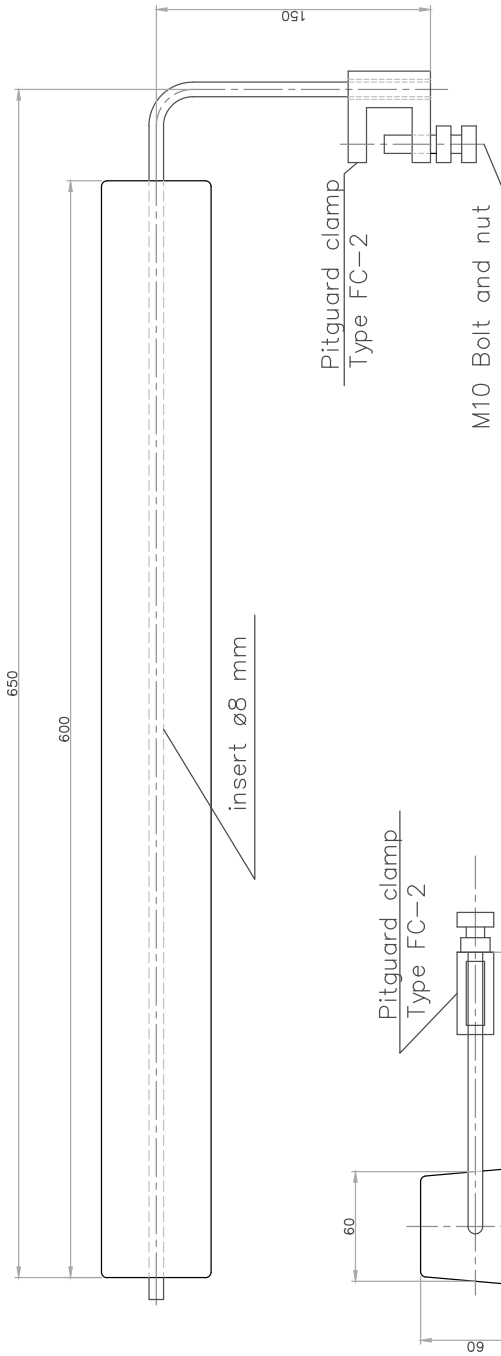
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 922467000	Weight: + / - 3%
drawn:	Dwg. No.: S 7664	Ben. Tol.: NACE SP0387
date:	Dim.: A - 4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

ANODE TYPE T-45-AL PITGUARD



ALUMINIUM ANODE:

Nett weight 6,0 kg

Gross weight 6,5 kg (incl. clamp)

Aluminium alloy specification
 Components Impurities
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Iridium 0,01 - 0,05
 Antimony 0,02 Max
 Aluminium 99,85% Purity
 Copper 0,10 - 0,15
 Others each 0,02 Max
 Electrochemical capacity:
 Solution potential:
 2700 Ah/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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 info@ampak.de

Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922480000	Weight: +/− 3%
drawn:	Dwg. No.:S 8193	Ben. Tol.: NACE SP0387
date:	Drm.:A-4	

ANODE TYPE T-60-AL PITGUARD

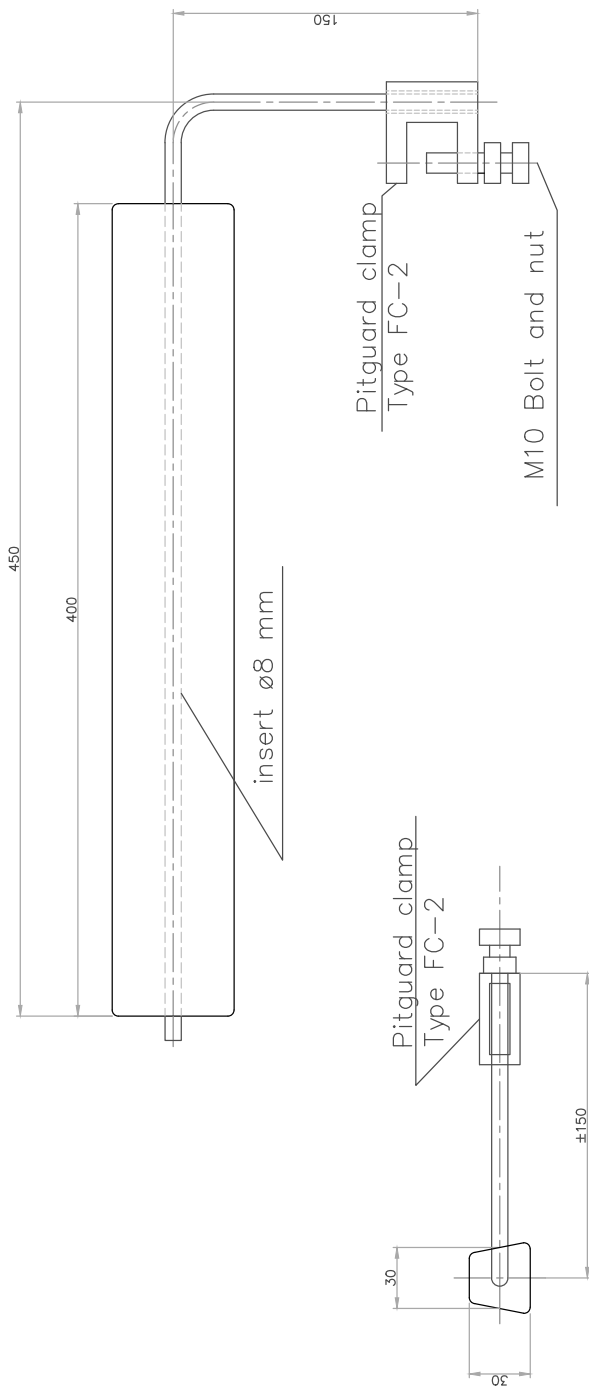
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ZINC PITGUARD ANODES

The next pages gives only a selection of types
we have available.

For contact scan QR-code



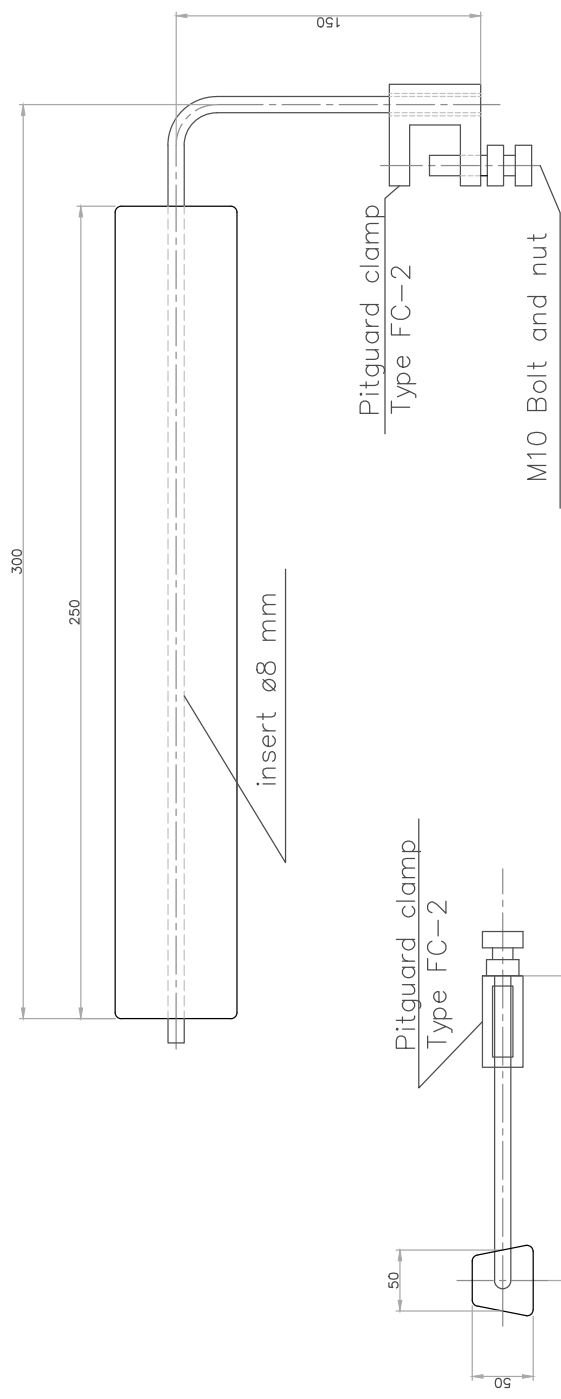


ZINC ANODE:

Nett weight 2,4 kg

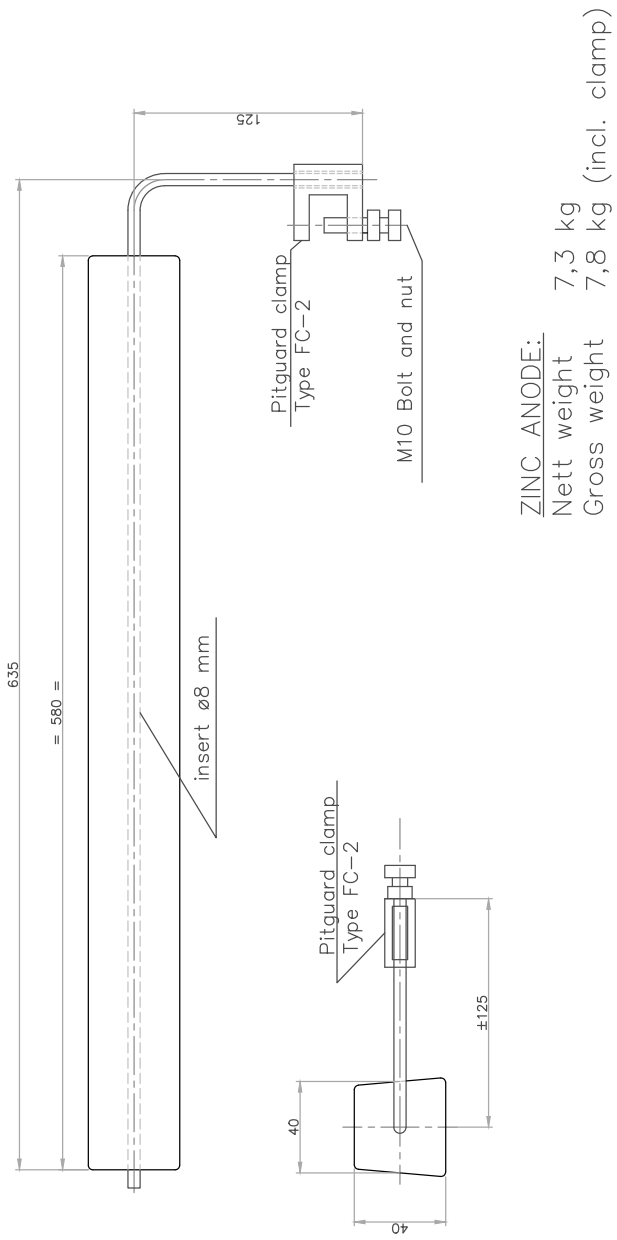
Gross weight 2,8 kg (incl. clamp)

<p>AMPAK® CATHODIC PROTECTION</p>		<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel: +31 (0) 345-633355 Fax: +31 (0) 345-633344 info@ampak.nl inf@ampak.nl</p>		<p>Other specifications are available on request</p>																							
		<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: 10000 mAh nominal Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		0,005 max	Copper		0,005 max	Iron		0,005 max	Lead		0,005 max	Others total		0,10 max
Components	Impurities	Percentage (%)																									
Cadmium		0,025-0,07																									
Aluminum		0,10-0,5																									
Zinc		0,005 max																									
Copper		0,005 max																									
Iron		0,005 max																									
Lead		0,005 max																									
Others total		0,10 max																									
<p>scale: t.s.</p>		<p>drawn: _____</p>		<p>ANODE TYPE T-24-Z PITGUARD</p>																							
<p>date: _____</p>		<p>Dim.: A-4</p>		<p>Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside</p>																							
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ZINC ANODE:
 Nett weight 4,3 kg
 Gross weight 4,8 kg (incl. clamp)

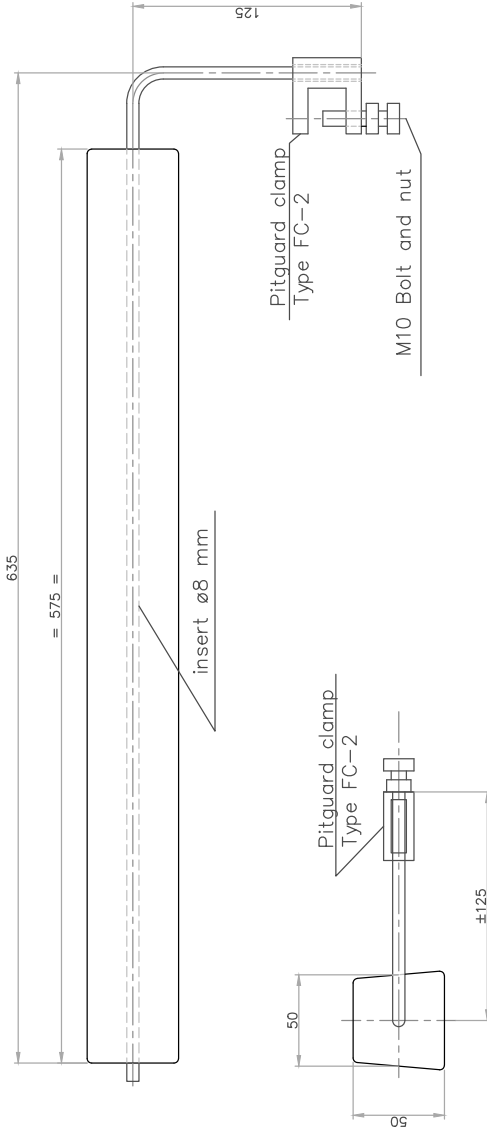
<p>AMPAK® CATHODIC PROTECTION</p>		Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de	
		Art. No.: 926144000 Dwg. No.: S 11077 Dim.: A-4	Weight: + / - 3% Gen. Tol.: NACE SP0387
Zinc alloy specifications acc. US MIL Spec-A-18001K Components Impurities Percentage (%) Cadmium 0,025-0,07 Aluminum 0,10-0,5 Zinc 0,005 max Copper 0,005 max Iron 0,006 max Lead 0,006 max Others total 0,10 max Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater) Solution potential:		Other specifications are available on request Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside ANODE TYPE T-43-Z PITGUARD	



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Zinc alloy specifications acc. US MIL Spec-A-18001K	Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de	Art. No.: 922109000	Weight: +/- 3%
Components Impurities		Dwg. No.: S 7704	Gen. Tol.: NACE SP0387
Cadmium 0.025-0.07		Dim.: A-4	
Aluminum 0.10-0.5			
Zinc 0.005 max			
Copper 0.005 max			
Iron 0.006 max			
Lead 0.006 max			
Others total 0.10 max			
Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater)			
Solution potential:			
		ANODE TYPE T-73-Z PITGUARD	



ZINC ANODE:

Nett weight 10,0 kg

Gross weight 10,5 kg (incl. clamp)

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

Art. No.: 923508000	Weight: + / - 3%
Dwg. No.: S 7788	Gen. Tol.: NACE SP0387
Dim.: A-4	

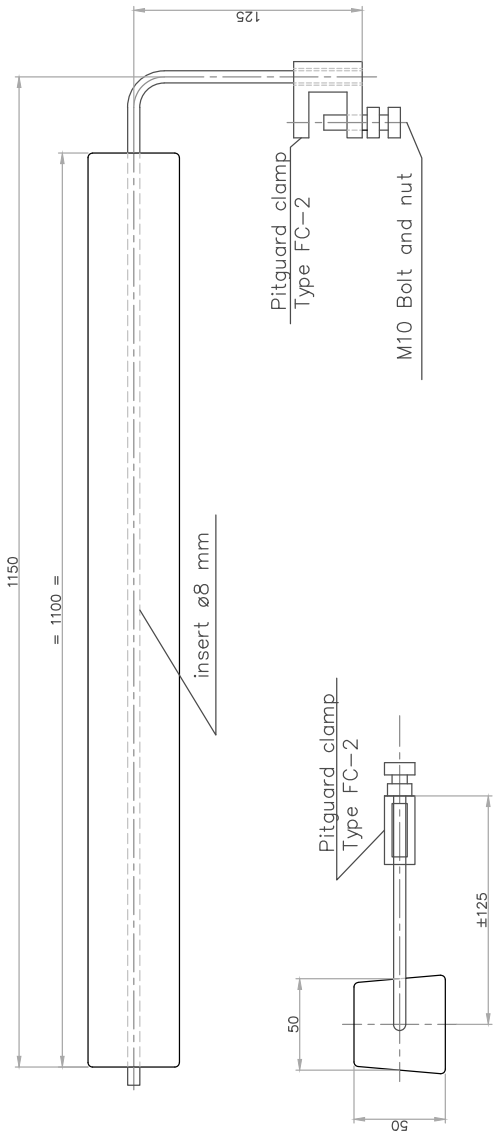
ANODE TYPE T-100-Z PITGUARD

Zinc alloy specifications acc. US MIL Spec-A-18001K

Components	Impurities	Percentage (%)
Cadmium		0.025-0.07
Aluminum		0.10-0.5
Zinc		0.005 max
Copper		0.005 max
Iron		0.005 max
Lead		0.006 max
Others total		0.10 max

Electrochemical capacity: 1000 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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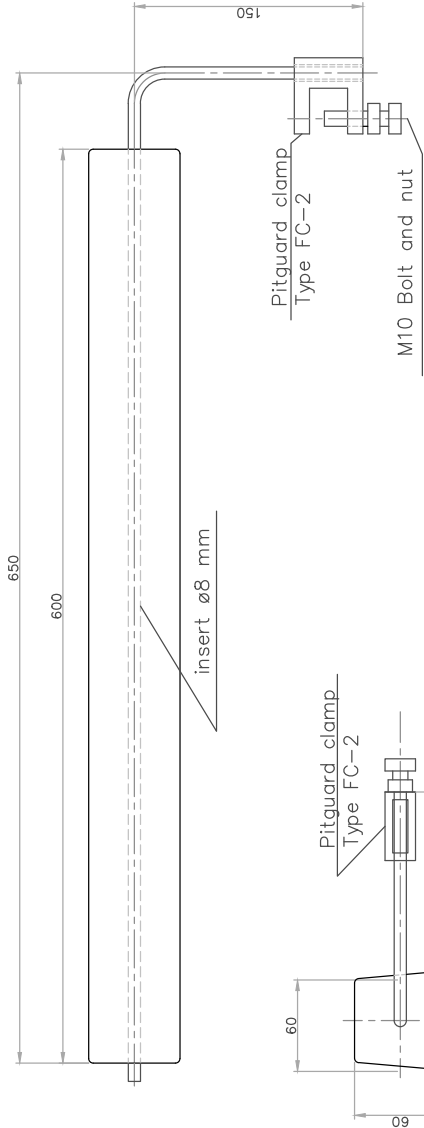
ZINC ANODE:

Nett weight 12,0 kg

Gross weight 12,8 kg (incl. clamp)

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		Art. No.: 922127000 Dwg. No.: S 8379 Dim.: A-4	Weight: +/− 3% Gen. Tol.: NACE SP0387
Zinc alloy specifications acc. US MIL Spec-A-18001K Components Impurities Cadmium 0,025-0,07 Aluminum 0,10-0,5 Zinc 0,005 max Copper 0,005 max Iron 0,006 max Lead 0,006 max Others total 0,10 max Electrochemical capacity: -1050 vs. Ag/AgCl reference cell nominal (in seawater) Solution potential:	Other specifications are available on request Note- All dimensions and weights are nominal. Dimension in mm All data is subject to change without prior notice Anode can also be provided with a coated backside ANODE TYPE T-120-Z PITGUARD		

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ZINC ANODE:

Nett weight 12,0 kg
Gross weight 12,8 kg (incl. clamp)

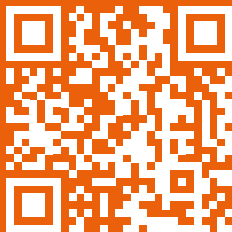
<p>Zinc alloy specifications acc. US MIL Spec-A-18001K</p> <table border="1"> <thead> <tr> <th>Components</th> <th>Impurities</th> <th>Percentage (%)</th> </tr> </thead> <tbody> <tr> <td>Cadmium</td> <td></td> <td>0,025-0,07</td> </tr> <tr> <td>Aluminum</td> <td></td> <td>0,10-0,5</td> </tr> <tr> <td>Zinc</td> <td></td> <td>99,975-99,995</td> </tr> <tr> <td>Copper</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Iron</td> <td></td> <td>0,005 max</td> </tr> <tr> <td>Lead</td> <td></td> <td>0,006 max</td> </tr> <tr> <td>Others total</td> <td></td> <td>0,10 max</td> </tr> </tbody> </table> <p>Electrochemical capacity: -1050 vs. Ag/AgCl (reference cell nominal (in seawater))</p> <p>Solution potential:</p>		Components	Impurities	Percentage (%)	Cadmium		0,025-0,07	Aluminum		0,10-0,5	Zinc		99,975-99,995	Copper		0,005 max	Iron		0,005 max	Lead		0,006 max	Others total		0,10 max	<p>Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl inf@ampak.nl</p>	
Components	Impurities	Percentage (%)																									
Cadmium		0,025-0,07																									
Aluminum		0,10-0,5																									
Zinc		99,975-99,995																									
Copper		0,005 max																									
Iron		0,005 max																									
Lead		0,006 max																									
Others total		0,10 max																									
<p>AMPAK® CATHODIC PROTECTION</p>		<p>Other specifications are available on request</p>																									
<p>scale: n.t.s.</p>		<p>Art. No. 327118000 Weight: + / - 3%</p>																									
<p>drawn:</p>		<p>Gen. Tol.: NACE SP0387</p>																									
<p>date:</p>		<p>ANODE TYPE T-153-Z PITGUARD</p>																									
<p>Dim.: A-4</p>		<p>Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.</p>																									

DIVERSE ANODES AND APPLICATIONS

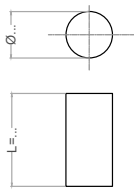
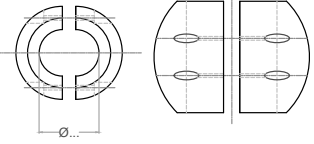
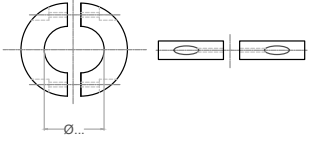
- ZINC AND ALUMINIUM ROD ANODES
- ZINC AND ALUMINIUM SHAFT ANODES
- ZINC PENCIL AND BRASS PLUGS
 - BACKING SHEETS
 - MOUNTINGS MATERIAL
 - ANTIFOULING ANODES
 - MAGNESIUM ANODES

The next pages gives only a selection of types we have available.

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ZINC AND ALUMINIUM SPECIAL ANODES

ROD ANODES																					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Type</th> <th style="text-align: left; padding: 2px;">Dimensions in mm.</th> </tr> </thead> <tbody> <tr><td style="padding: 2px;">20</td><td style="padding: 2px;">Ø20 L=600</td></tr> <tr><td style="padding: 2px;">30</td><td style="padding: 2px;">Ø30 L=600</td></tr> <tr><td style="padding: 2px;">40</td><td style="padding: 2px;">Ø40 L=600</td></tr> <tr><td style="padding: 2px;">50</td><td style="padding: 2px;">Ø50 L=600</td></tr> <tr><td style="padding: 2px;">60</td><td style="padding: 2px;">Ø60 L=600</td></tr> <tr><td style="padding: 2px;">70</td><td style="padding: 2px;">Ø70 L=600</td></tr> <tr><td style="padding: 2px;">80</td><td style="padding: 2px;">Ø80 L=600</td></tr> <tr><td style="padding: 2px;">100</td><td style="padding: 2px;">Ø100 L=600</td></tr> </tbody> </table>	Type	Dimensions in mm.	20	Ø20 L=600	30	Ø30 L=600	40	Ø40 L=600	50	Ø50 L=600	60	Ø60 L=600	70	Ø70 L=600	80	Ø80 L=600	100	Ø100 L=600		
Type	Dimensions in mm.																				
20	Ø20 L=600																				
30	Ø30 L=600																				
40	Ø40 L=600																				
50	Ø50 L=600																				
60	Ø60 L=600																				
70	Ø70 L=600																				
80	Ø80 L=600																				
100	Ø100 L=600																				
SHAFT ANODES																					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Type</th> <th style="text-align: left; padding: 2px;">Dimensions in mm.</th> </tr> </thead> <tbody> <tr><td style="padding: 2px;">CSB 19</td><td style="padding: 2px;">Ø 19</td></tr> <tr><td style="padding: 2px;">CSB 22</td><td style="padding: 2px;">Ø 22</td></tr> <tr><td style="padding: 2px;">CSB 25</td><td style="padding: 2px;">Ø 25</td></tr> <tr><td style="padding: 2px;">CSB 1"</td><td style="padding: 2px;">Ø 1"</td></tr> <tr><td style="padding: 2px;">CSB 30</td><td style="padding: 2px;">Ø 30</td></tr> <tr><td style="padding: 2px;">CSB 35</td><td style="padding: 2px;">Ø 35</td></tr> <tr><td style="padding: 2px;">CSB 40</td><td style="padding: 2px;">Ø 40</td></tr> <tr><td style="padding: 2px;">CSB 45</td><td style="padding: 2px;">Ø 45</td></tr> <tr><td style="padding: 2px;">CSB 50</td><td style="padding: 2px;">Ø 50</td></tr> </tbody> </table>	Type	Dimensions in mm.	CSB 19	Ø 19	CSB 22	Ø 22	CSB 25	Ø 25	CSB 1"	Ø 1"	CSB 30	Ø 30	CSB 35	Ø 35	CSB 40	Ø 40	CSB 45	Ø 45	CSB 50	Ø 50
Type	Dimensions in mm.																				
CSB 19	Ø 19																				
CSB 22	Ø 22																				
CSB 25	Ø 25																				
CSB 1"	Ø 1"																				
CSB 30	Ø 30																				
CSB 35	Ø 35																				
CSB 40	Ø 40																				
CSB 45	Ø 45																				
CSB 50	Ø 50																				
SHAFT COLLARS ANODES																					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Type</th> <th style="text-align: left; padding: 2px;">Dimensions in mm.</th> </tr> </thead> <tbody> <tr><td style="padding: 2px;">CSR 19</td><td style="padding: 2px;">Ø 19</td></tr> <tr><td style="padding: 2px;">CSR 22</td><td style="padding: 2px;">Ø 22</td></tr> <tr><td style="padding: 2px;">CSR 25</td><td style="padding: 2px;">Ø 25</td></tr> <tr><td style="padding: 2px;">CSR 1"</td><td style="padding: 2px;">Ø 1"</td></tr> <tr><td style="padding: 2px;">CSR 30</td><td style="padding: 2px;">Ø 30</td></tr> <tr><td style="padding: 2px;">CSR 35</td><td style="padding: 2px;">Ø 35</td></tr> <tr><td style="padding: 2px;">CSR 40</td><td style="padding: 2px;">Ø 40</td></tr> <tr><td style="padding: 2px;">CSR 45</td><td style="padding: 2px;">Ø 45</td></tr> <tr><td style="padding: 2px;">CSR 50</td><td style="padding: 2px;">Ø 50</td></tr> </tbody> </table>	Type	Dimensions in mm.	CSR 19	Ø 19	CSR 22	Ø 22	CSR 25	Ø 25	CSR 1"	Ø 1"	CSR 30	Ø 30	CSR 35	Ø 35	CSR 40	Ø 40	CSR 45	Ø 45	CSR 50	Ø 50
Type	Dimensions in mm.																				
CSR 19	Ø 19																				
CSR 22	Ø 22																				
CSR 25	Ø 25																				
CSR 1"	Ø 1"																				
CSR 30	Ø 30																				
CSR 35	Ø 35																				
CSR 40	Ø 40																				
CSR 45	Ø 45																				
CSR 50	Ø 50																				
ZINC PENCIL ANODES AND BRASS PLUGS																					
	<p style="text-align: center;"><i>Different types of Zinc Pencil Anodes and Brass plugs are available on request</i></p>																				
BACKING SHEETS																					
	<p style="text-align: center;"><i>For some types of Bolt-on Anodes, there are Neoprene backing pads available</i></p>																				

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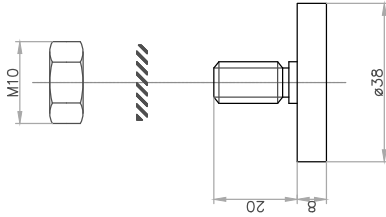
Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:	Art. No.:	ZINC AND ALUMINIUM SPECIAL ANODES
drawn:	Dwg. No.:	
date:	Dim.:	

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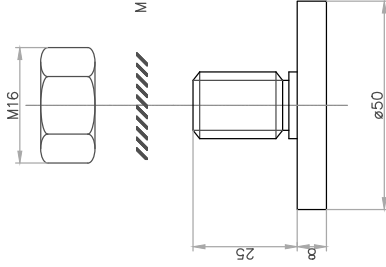
type M10C



M10 disc washer

Art.N°: 922703000 (mild steel)
922707000 (Stainless Steel)

type M16C



M16 disc washer

Art.N°: 922704000 (mild steel)
922708000 (Stainless Steel)

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info@ampak.de

Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n.t.s.

drawn:

date:

Art. No.:

Dwg. No.: s 7570

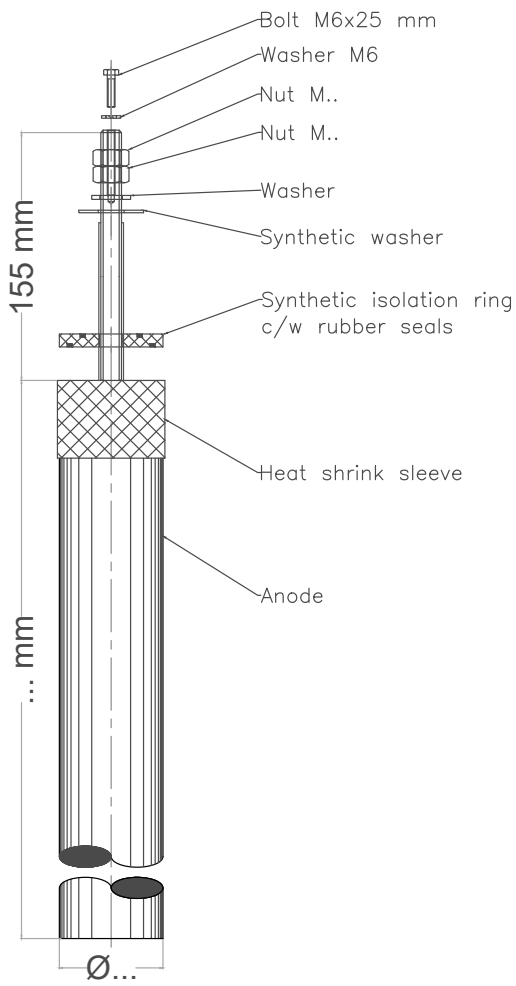
Dim.: A-4

Weight: +/- 3%

Gen. Tol.: NACE SP0387

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PLATE HEADED STUD ASSEMBLIES



... pcs Cu anode : diameter \varnothing ... mm x length ... mm
 ... pcs Fe anode : diameter \varnothing ... mm x length ... mm

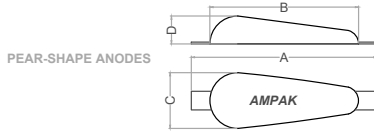
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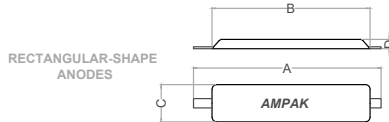
Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:	Art. No.:	REPLACEMENT ANTIFOULING CU/FE ANODE
drawn:	Dwg. No.:S 10945	
date:	Dim.:	
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AMPAK MAGNESIUM HULL ANODES



TYPE	A	B	C	D	WELDING STRIP	WEIGHT	
						NET	GROSS
3-MG	180	120	80	23	25X3	0,3 KG	0,4 KG
7-MG	245	170	100	40	25X3	0,7 KG	0,9 KG
24-MG	435	300	160	45	30X4	2,4 KG	2,8 KG



TYPE	A	B	C	D	WELDING STRIP	WEIGHT	
						NET	GROSS
13-MG	430	300	90	40	30X4	1,3 KG	1,7 KG
30-MG	575	465	110	40	40X5	3,0 KG	4,0 KG
40-MG	630	520	120	40	40X5	4,0 KG	5,0 KG
65-MG	910	800	120	40	40X5	6,5 KG	7,2 KG

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Other specifications are available on request

Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: _____ Art. No.: _____
drawn: _____ Dwg. No.: S 11079
date: _____ Dim.: _____

AMPAK MAGNESIUM HULL ANODES

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Discover the AMPAK® difference as we proudly manufacture our products within the European Union. Nestled in our state-of-the-art foundry in the Netherlands, every AMPAK® item is meticulously crafted to perfection.

Commitment to Superior Quality and Speedy Delivery

At AMPAK®, our commitment is clear: delivering unrivaled quality and unparalleled efficiency. By producing in Europe, we uphold the highest international standards, ensuring that each product meets rigorous regulations.

AMPAK® Precision: Where Quality Meets Innovation

Equipped with our cutting-edge laboratory featuring Optical Emission Spectrography for in-depth material analysis and advanced duration tests, we maintain rigorous quality control. Constantly innovating and enhancing our products, we strive to offer you nothing but the best, making AMPAK® synonymous with superior quality in the market.

