



PROTECT YOUR INVESTMENT



SACRIFICIAL ANODES

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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

Alumunium anodes

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

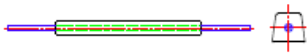
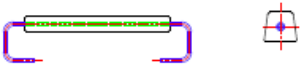
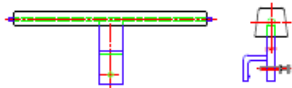
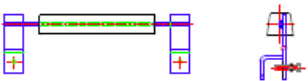
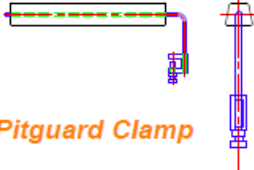
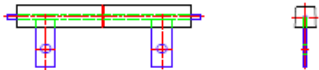
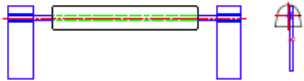
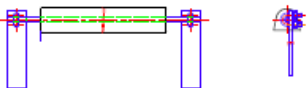
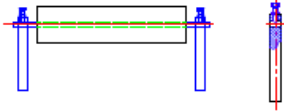
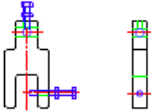
Zinc anodes

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.

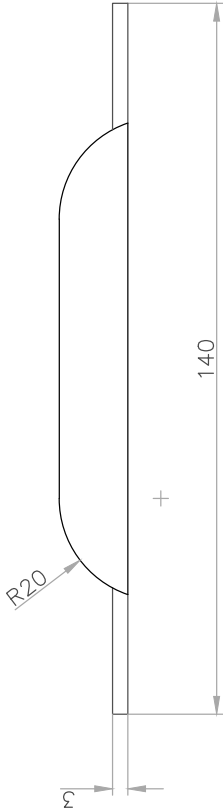
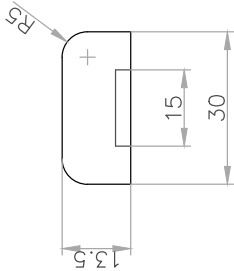
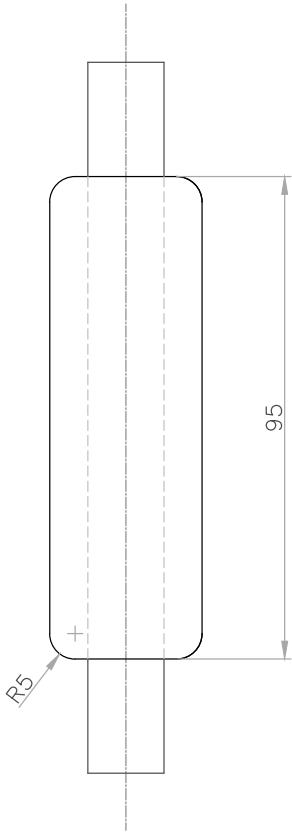
 <i>Straight Core</i>	 <i>Inside Double Cranked</i>
 <i>"C" Clamp</i>	 <i>"E" Clamp</i>
 <i>Pitguard Clamp</i>	 <i>"S" Clamp</i>
 <i>Stand-off Brackets, Welded Fixing</i>	 <i>Stand-off Brackets, U-bolt Fixing</i>
 <i>Bar Clamp</i>	 <i>"M" Type Clamp</i>

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
Components
Silicon
Zinc
Titanium
Indium
Aluminium
Copper
Iron
Others each
Electrochemical capacity:
Solution potential:

Percentage (%)
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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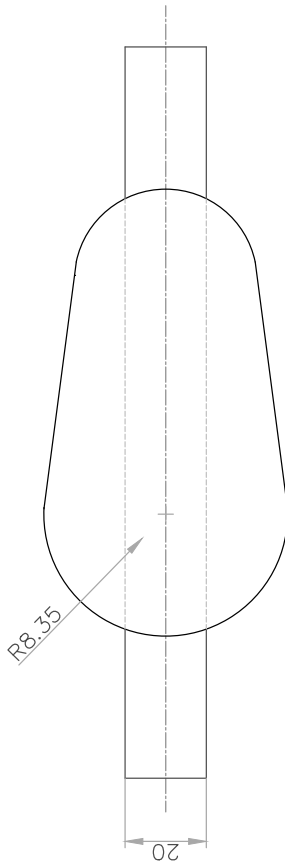
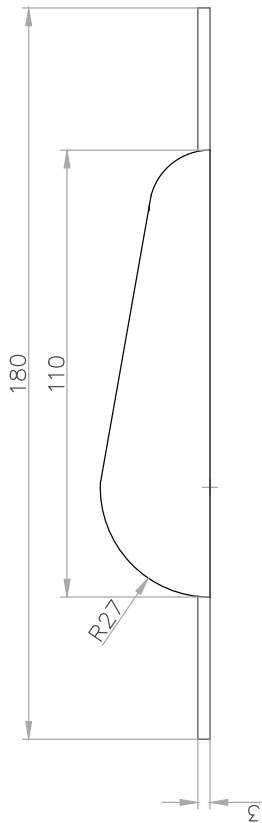
Other specifications are available on request

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.: 922501000	Weight: + / - 3%
drawn:	Dwg. No.: S 9448	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	

ANODETYPE 1.67-AL

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ALUMINIUM ANODE:

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

Aluminium alloy specification	
Components	Impurities
Silicon	
Zinc	
Titanium	
Indium	
Aluminium	
Copper	
Iron	
Others each	
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	
0.01 - 0.05	
0.02 Max	
0.10 - 0.15	
0.02 Max	

scale:n.t.s.	Art. No.:922520000	Weight: +/− 3%
drawn:	Dwg. No.:S 5682	Ben. Tol.: NACE SP0387
date:	Dim.:A-4	

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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

ANODE TYPE 2,5-AL

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250

160

5

5

26

66

25

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

Aluminium alloy specification
Components
Copper
Zinc
Titanium
Indium
Aluminium
Copper
Iron
Others each
Electrochemical capacity:
Solution potential:

Percentage (%)
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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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:

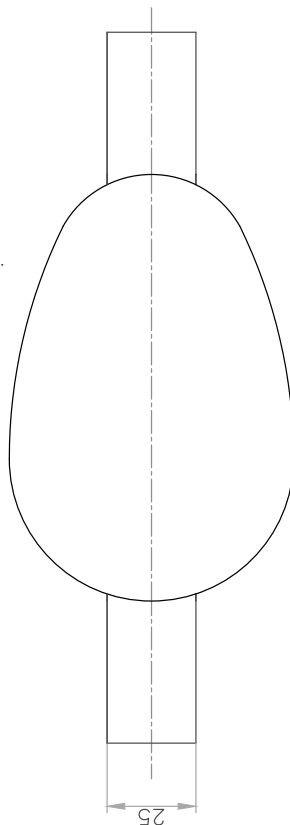
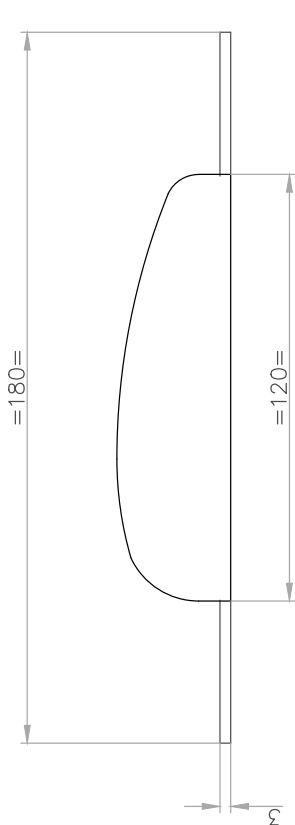
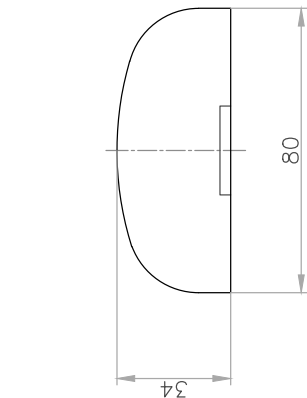
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Dwg. No.: S 10281 Gen. Tol.: NACE SP0387

Dim.: A - 4

ANODE TYPE 5-AL-H

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ALUMINIUM ANODE:

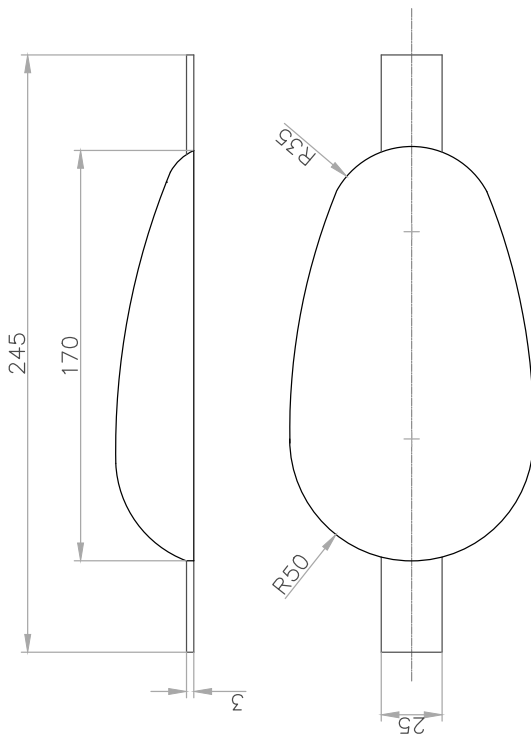
nett weight 0,6 kg
gross weight 0,7 kg

Aluminium alloy specification	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
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.: 922541000	Weight: + / - 3%
drawn:	Dwg. No.: S 7750	Gen. Tol.: NACE SP0387
date:	Dim.: 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
Zinc
Zinc
Titanium
Indium
Aluminium
Copper
Iron
Others each
Electrochemical capacity:
Solution potential:

Percentage (%)
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.:922517000 Weight: + / - 3%

drawn:

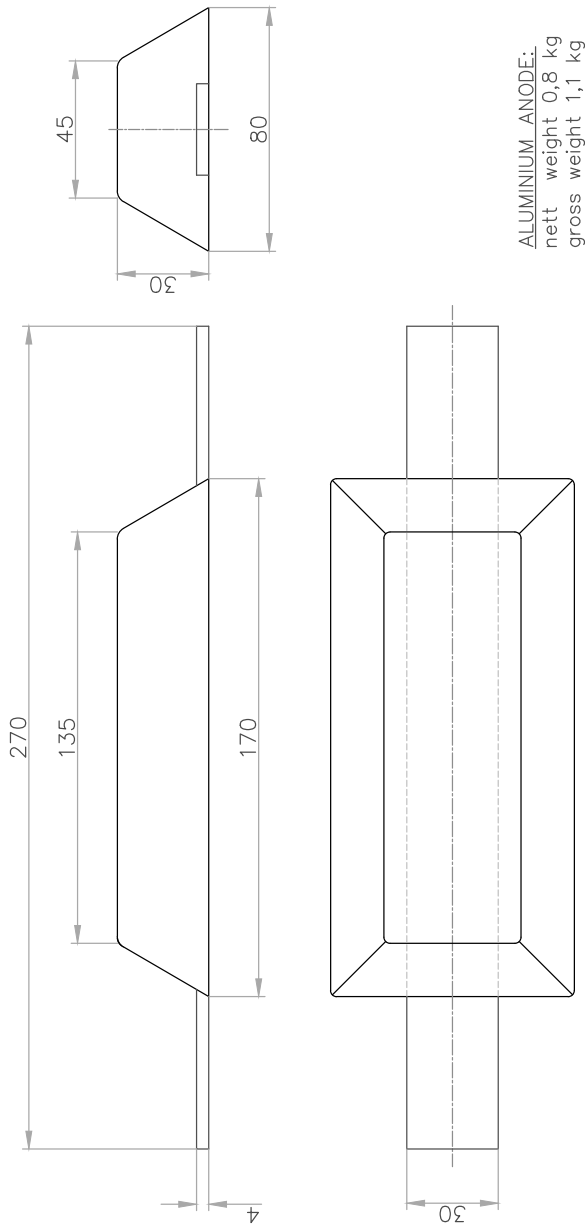
Dwg. No.:S 7691 Gen. Tol.: NACE SP0387

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	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
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

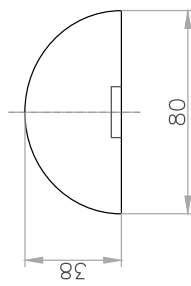
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drawn:	Dwg. No.: S 7579	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE 8-AL-H

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300

240



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
Indium	0,01 - 0,05
Aluminium	Balance (99,85% Purify)
Copper	
Others each	
2700 Ahr/Kg nominal	
Electrochemical capacity:	
Solution potential:	
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)	

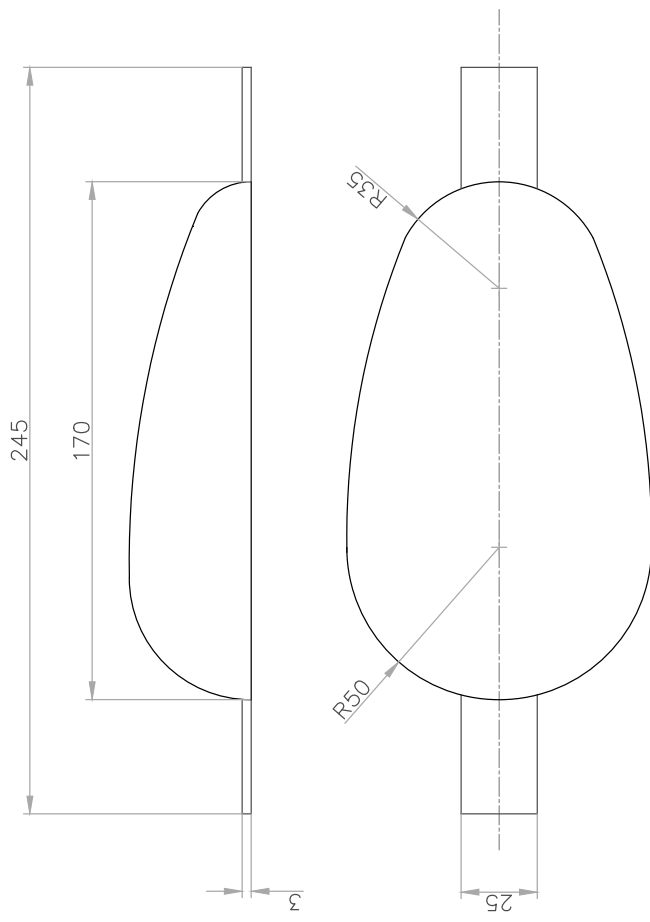
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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

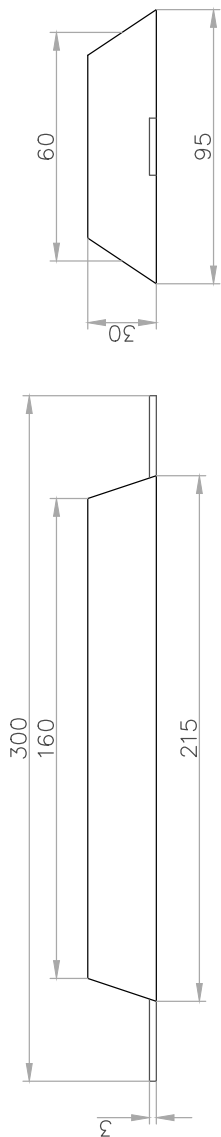
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ALUMINIUM ANODE:

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

Aluminium alloy specification		AMPAK®		Leerdam, The Netherlands		Other specifications are available on request	
Components	Impurities	CATHODIC PROTECTION		P.O. 71, 4140 AB Leerdam		Note: All dimensions and weights are nominal. Dimension in mm	
Silicon	0.10 - 0.15			Tel. +31 (0) 345-633355		All data is subject to change without prior notice	
Zinc	2.0 - 5.0			Fax +31 (0) 345-633344		Anode can also be provided with a coated backside	
Titanium	0.01 - 0.05			info@ampak.nl			
Indium	0.01 - 0.05			info@ampak.de			
Aluminium	99.95% Purify						
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)						
		Art. No. 322484000		Weight: +/- 3%		ANODE TYPE 11-AL	
		Dwg. No.: S 4451		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 1,2 kg
gross weight 1,5 kg

Aluminium alloy specification
Components
Impurities

Si 0,10 - 0,15
Fe 2,0 - 5,0
Zn 0,01 - 0,05
Ti 0,01 - 0,05
In 0,01 - 0,05
Al 99,85% (Purity)

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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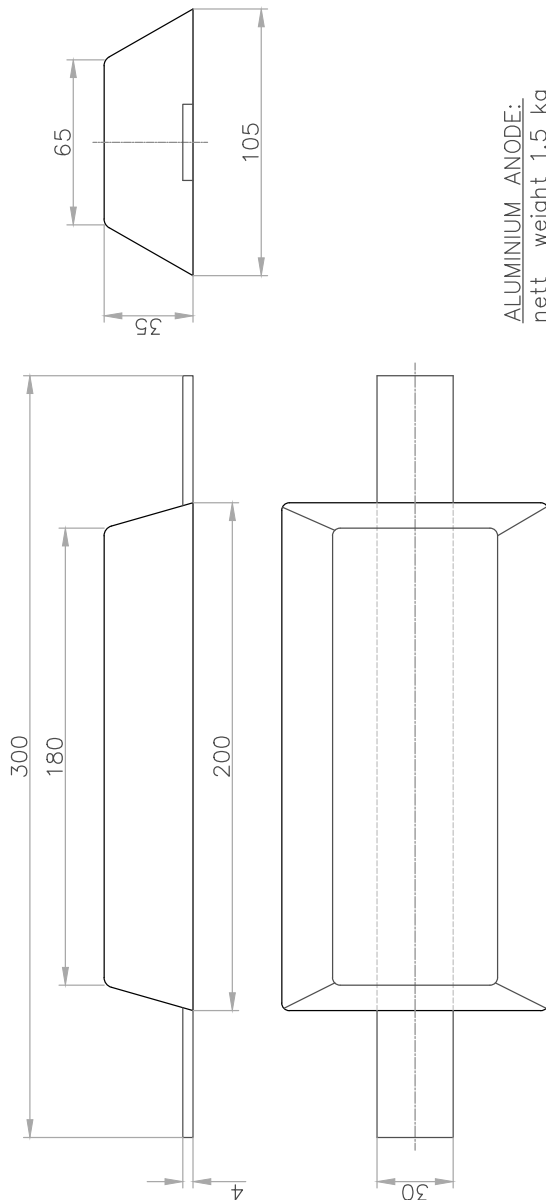
Other specifications are available on request

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

ANODE TYPE 12-AL-H

scale: n.t.s. Art. No.: 926955000 Weight: + / - 3%
drawn: F.J. te Beest Dwg. No.: S 11030 Gen. Tol.: NACE SP0387
date: 25-09-2018 Dim.: A-4

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ALUMINIUM ANODE:
 nett weight 1,5 kg
 gross weight 1,8 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 99,85% Purify
 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)

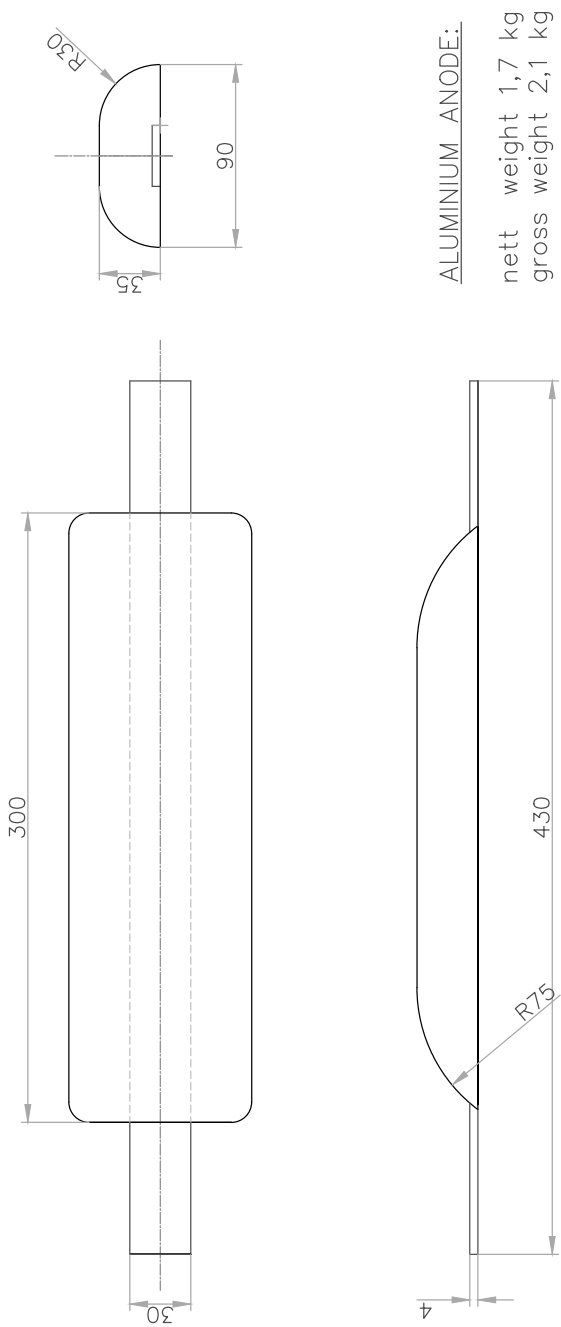
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n. t. s.	Art. No. 322504000	Weight: + / - 3%
drawn:	Dwg. No. S 7581	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	ANODE TYPE 15-AL-H

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ALUMINIUM ANODE:

nett weight 1,7 kg

gross weight 2,1 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	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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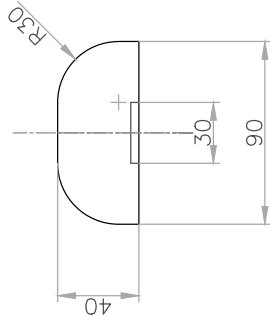
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Other specifications are available on request

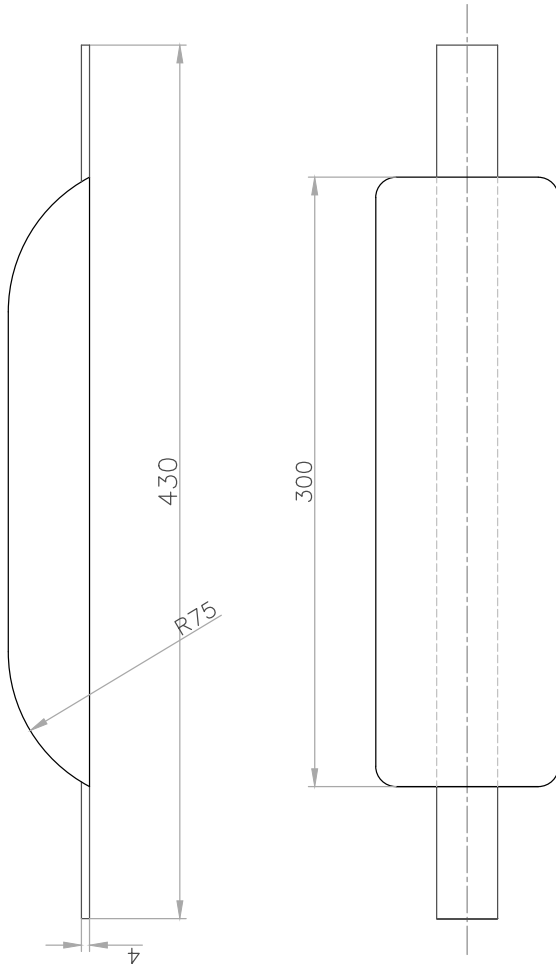
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922523000	Weight: +/- 3%
drawn:	Dwg. No.: S 7748	Gen. To.: NACE SP0387
date:	Dim.: A - 4	ANODE TYPE 17-AL

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ALUMINIUM ANODE:
 nett weight 2,0 kg
 gross weight 2,4 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:	
2700 Ah/Kg nominal	
>1100 mV vs Ag/AgCl reference cell nominal (in seawater)	

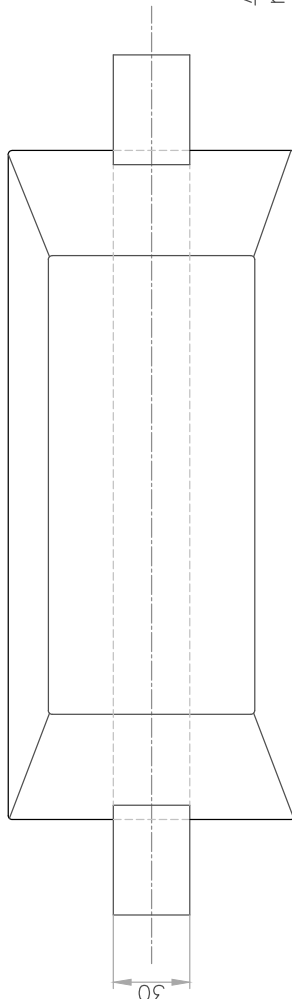
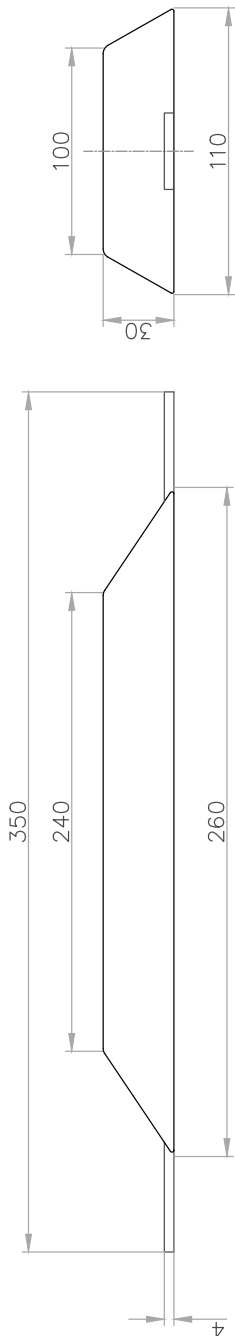
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922485000	Weight: +/- 3%
drawn:	Dwg. No.: S 4452	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 20-AL



ALUMINIUM ANODE:

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

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Indium
 Aluminium
 Copper
 Iron
 Others each
 Electrochemical capacity:
 Solution potential:

Percentage (%)
 0.10 - 0.15
 2.0 - 5.0
 0.01 - 0.05
 0.01 - 0.05
 0.01 - 0.05
 99.85% Purify
 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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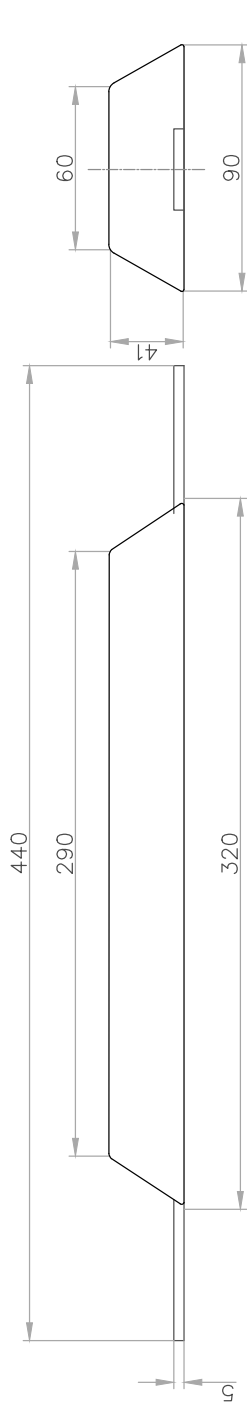
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Other specifications are available on request

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

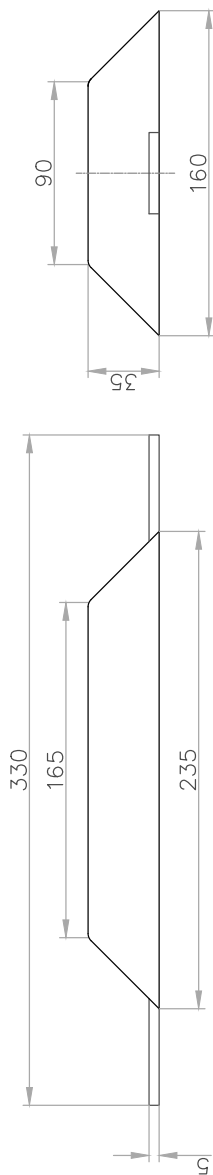
scale:n.t.s.	Art. No.:	Weight: +/− 3%
drawn:F.J. te Beest	Dwg. No.:S 11231	Gen. Tol.: NACE SP0387
date:19-11-2020	Dim.:A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

ANODE TYPE 21-AL



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

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Aluminum alloy specification	Percentages (%)	Art. No.:926241001	Weight: +/- 3%	ANODE TYPE 22-AL	
Components	Impurities	Dwg. No.:S 11066	Gen. Tol: NACE SP0387		
Silicon	0.10 - 0.15	drawn:	date:	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.	
Zinc	2.0 - 5.0				
Titanium	0.01 - 0.05				
Indium	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)				



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

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Indium
 Aluminium
 Copper
 Iron
 Others each
 Electrochemical capacity:
 Solution potential:

Percentage (%)
 0.10 - 0.15
 2.0 - 5.0
 0.01 - 0.05
 0.01 - 0.05
 0.01 - 0.05
 99.85% Purify
 0.02 Max
 0.10 - 0.15
 0.02 Max

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

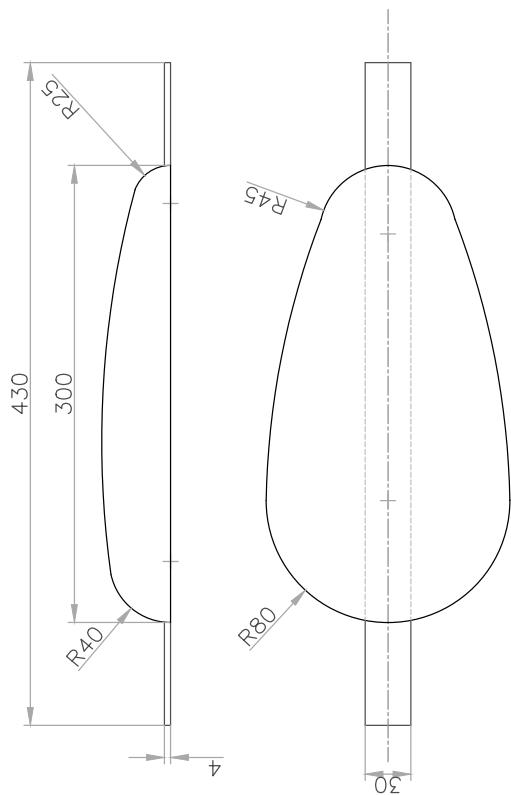
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922525000	Weight: +/− 3%
drawn:	Dwg. No.: S 7583	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 23-AL-H



ALUMINIUM ANODE:

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

Aluminium alloy specification
Components
Impurities
Si
Zn
Titanium
Indium
Aluminium
Copper
Iron
Others each
Electrochemical capacity:
Solution potential:

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

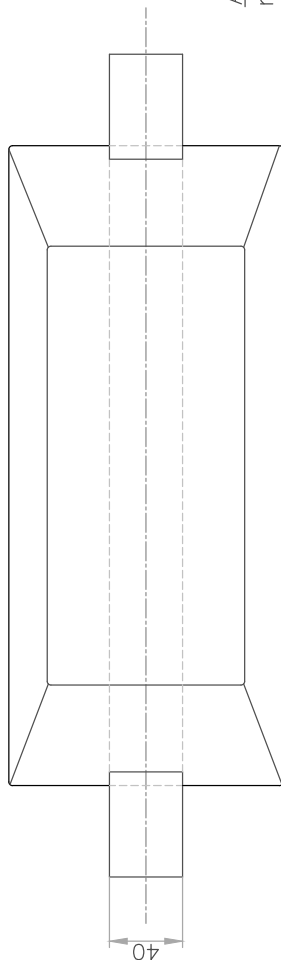
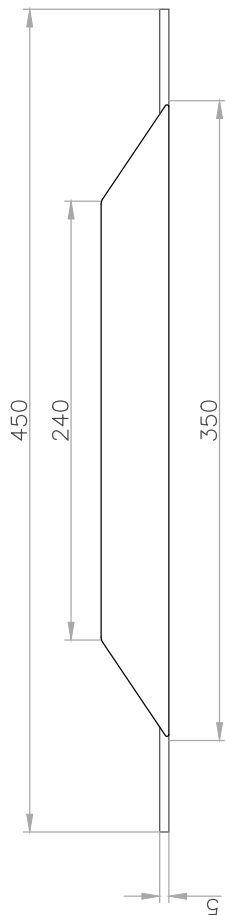
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Note: All dimensions and weights are nominal. Dimension in mm
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Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 3922503000	Weight: + / - 3%
drawn:	Dwg. No.: S 5684	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	ANODE TYPE 28-AL

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

Aluminium alloy specification	Percentage (%)
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% Purify)
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)

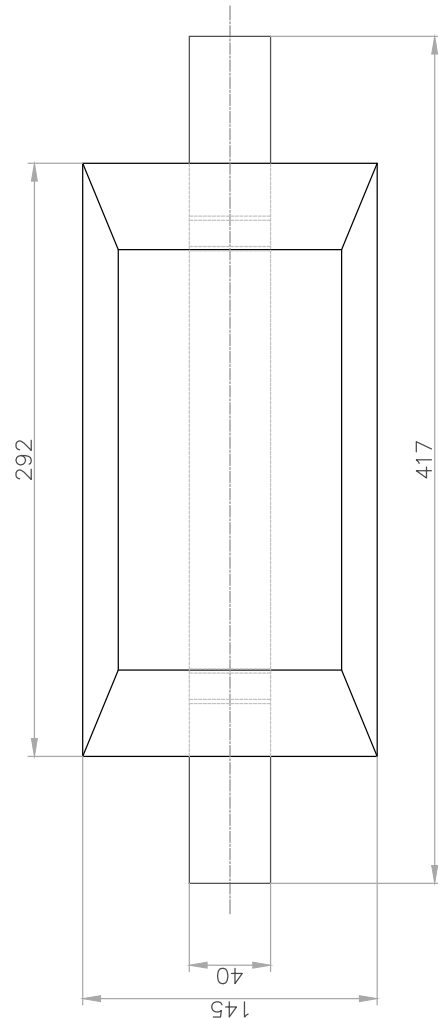
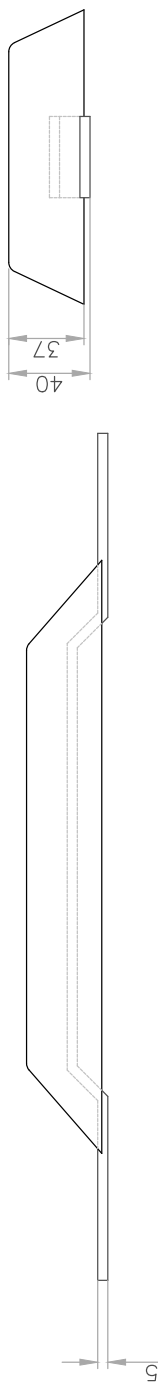
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.:	Weight: +/− 3%
drawn:	Dwg. No.: S11245	Gen. 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

Aluminium alloy specification	
Components	Impurities
Aluminum	
Copper	
Iron	
Others each	
Electrochemical capacity:	
Solution potential:	

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

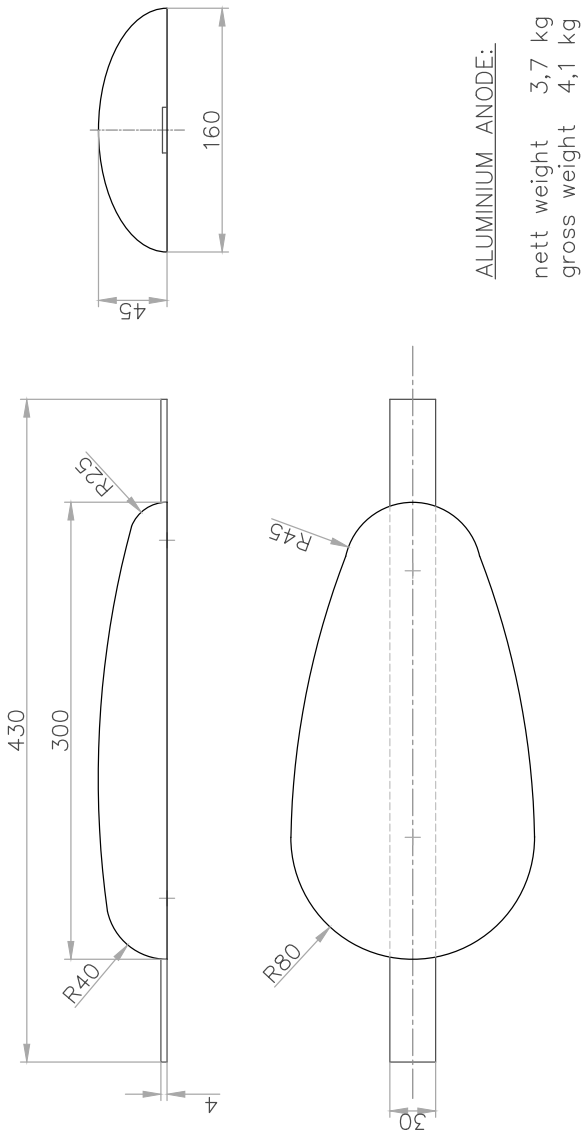
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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



ALUMINIUM ANODE:

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

Aluminium alloy specification
Components
Copper
Iron
Others each
Electrochemical capacity:
Solution potential:

Percentage (%)
Copper 2.0 - 5.0
Iron 0.01 - 0.05
Others each 0.02 Max
Electrochemical capacity:
Solution potential:

2500 Ah/Kg nominal
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

Art. No.:922486000
Dwg. No.:S 4453
Dim.:A-4

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

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

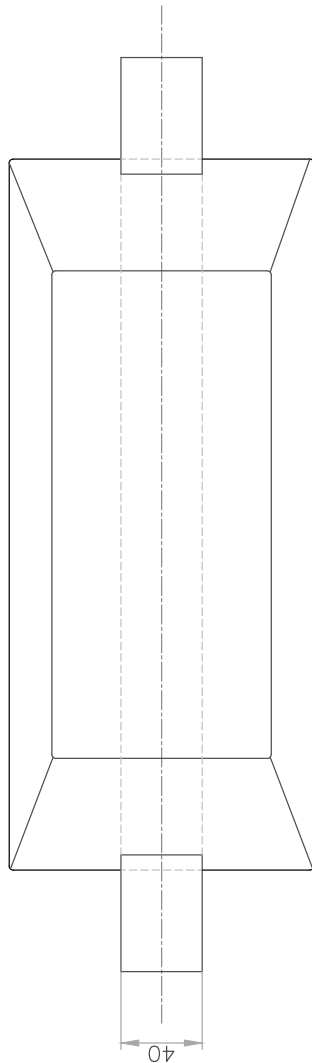
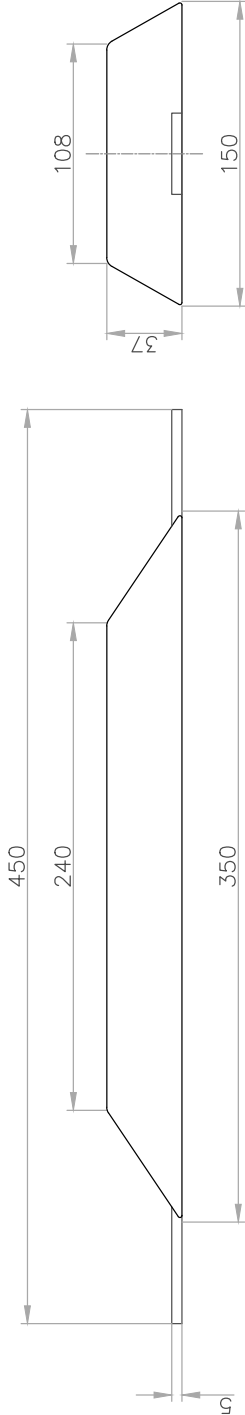
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

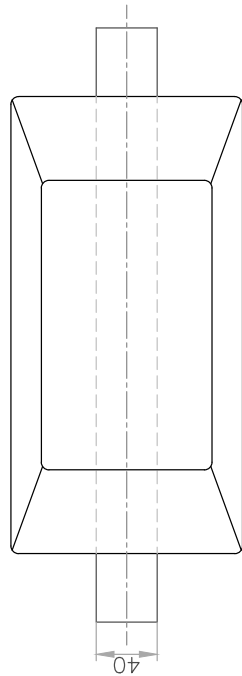
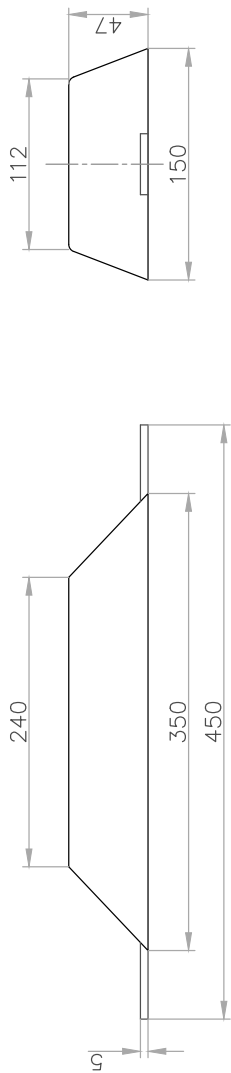
ANODE TYPE 37-AL

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

Aluminium alloy specification Components: Magnesium Zinc Titanium Indium 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		Impurities Copper Iron Others each		Electrochemical capacity: Solution potential: 2700 Ah/Kg nominal -1050 mV vs. Ag/AgCl reference cell nominal (in seawater)		AMPAK® CATHODIC PROTECTION		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		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-H					
scale: n.t.s.		Art. No.: 92524000		Weight: + / - 3%		Gen. Tol.: NACE SP0387		drawn:		Dwg. No.: S 7577		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.		2700 Ah/Kg nominal -1050 mV vs. Ag/AgCl reference cell nominal (in seawater)		Electrochemical capacity: Solution potential:		Impurities 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		Components Magnesium Zinc Titanium Indium Aluminium		AMPAK® CATHODIC PROTECTION		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		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-H	



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

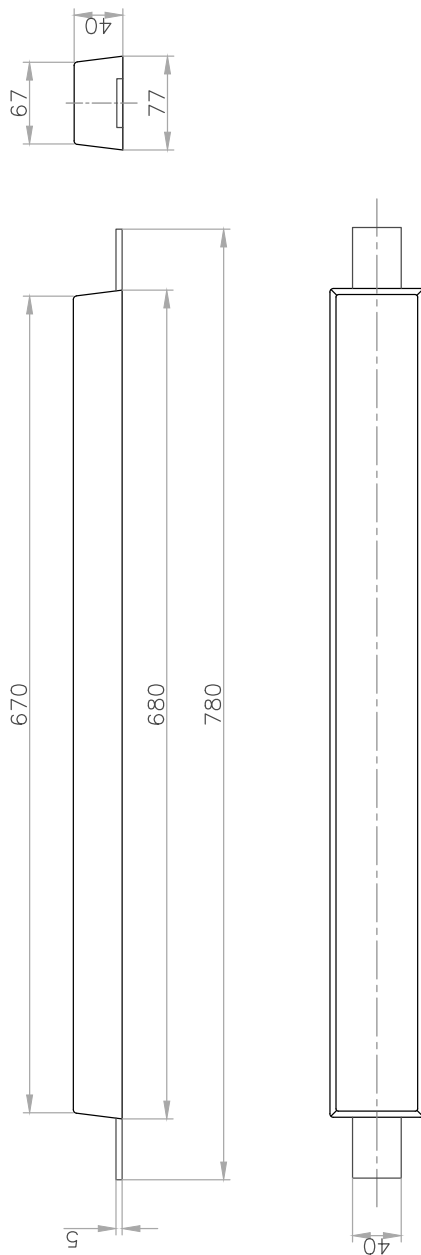
Aluminium alloy specification	
Components	Impurities
Silicon	0,10 - 0,15
Zinc	2,0 - 5,0
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	99,85% Purify
Copper	0,02 Max
Iron	0,10 - 0,15
Others each	0,02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 mV vs. Ag/AgCl reference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

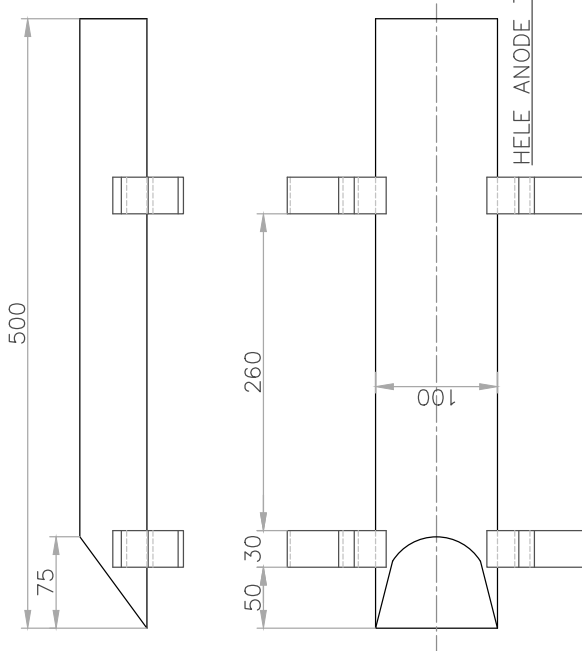
scale: n.t.s.	Art. No.:	Weight: + / - 3%	Anode Type 46-AL-H
drawn:	Dwg. No.: S11242	Gen. Tol.: NACE SP0387	
date:	Dim.: A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.	



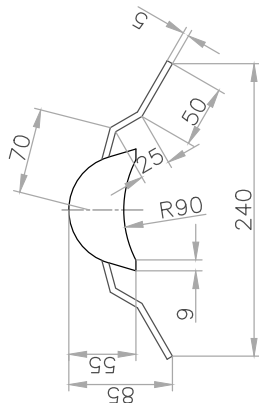
ALUMINUM ANODE:
 net weight: 5,1 kg
 gross weight: 5,7 kg

Aluminum alloy specification Components Impurities		Percentage (%) Fe 0 - 0,15 Si 0 - 0,15 Zn 0 - 0,05 Ti 0,01 - 0,05 Mn 0,01 - 0,05 Remainder (99,85% Purty) Aluminum		AMPAK® CATHODIC PROTECTION		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		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	
Electrochemical capacity: solution potential:		2700 A-h/Kg nominal -1100 mV vs. Ag/AgCl reference cell (in seawater)		scale: n.t.s. drawn: date:	Art. No.: Dwg. No.: S11244 Dim.: A-4	Weight: + / - 3% Gen. Tol.: NACE SP0387	Anode Type 51-AL		
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Aluminum alloy specification Components Impurities		Percentage (%) 0.10 - 0.15 2.0 - 5.0 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 Ahr/Kg nominal -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)
Electrochemical capacity: Solution potential:		



HELE 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
Copper
Iron
Others each
Solution potential:
Electrochemical capacity:
Solution potential:

Percentages (%)
Copper
Iron
Others each
Solution potential:
Electrochemical capacity:
Solution potential:

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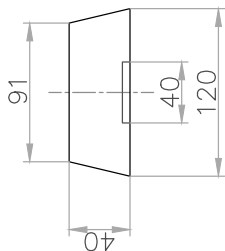
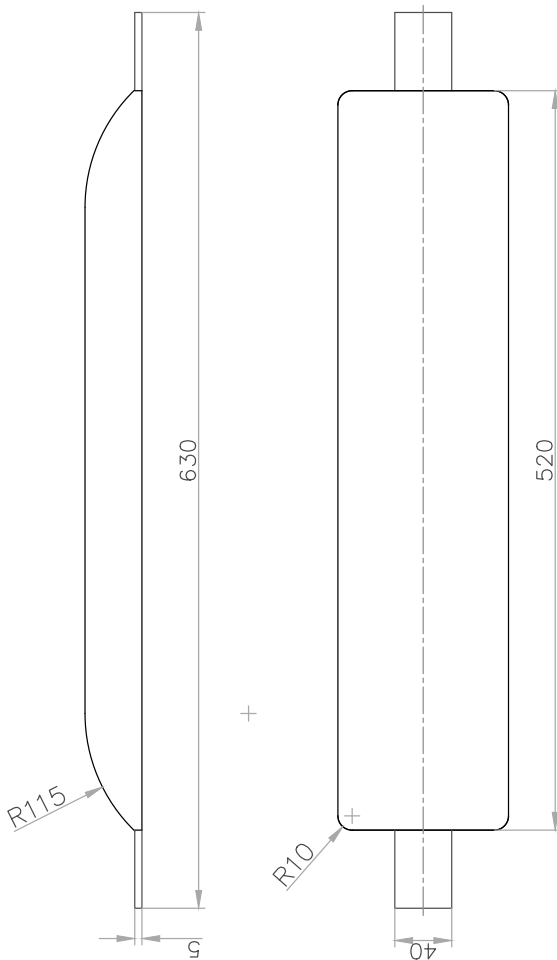
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Other specifications are available on request

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 53-AI/105-AI-1

scale: n.t.s.
drawn:
date:
Art. No.: 922488000
Dwg. No.: S 9444
Dim.: A - 4
Weight: +/- 3%
Gen. Tol.: NACE SP0387
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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	99,99 - 99,995 (99,95% Pure)	
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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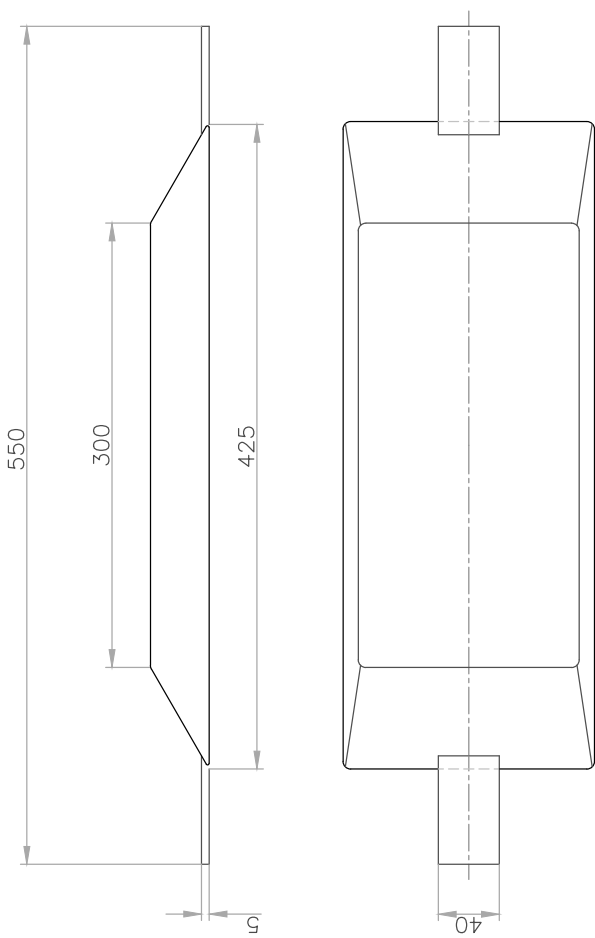
Other specifications are available on request

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 4455	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
Silicon
Zinc
Titanium
Indium
Aluminium
Copper
Iron
Others each
Electrochemical capacity:
Solution potential:

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

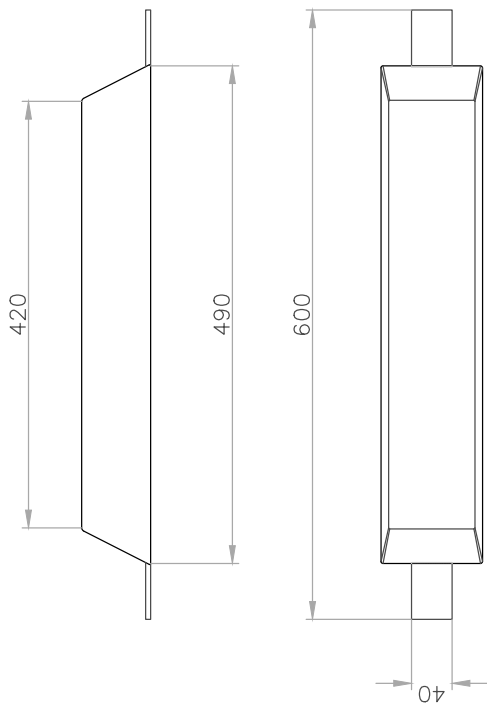
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 923445000	Weight: + / - 3%
drawn:	Dwg. No.: S 8947	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 64-AL-H



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
 Indium 0.01 - 0.05
 Aluminium 99.85% Purify
 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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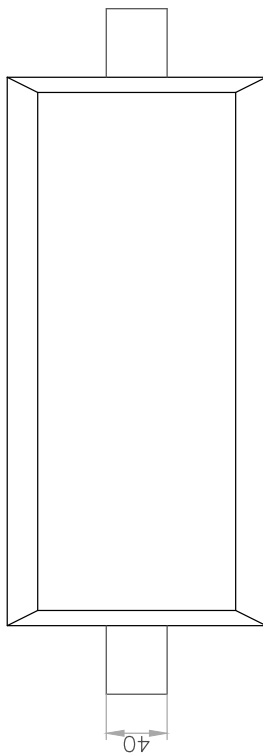
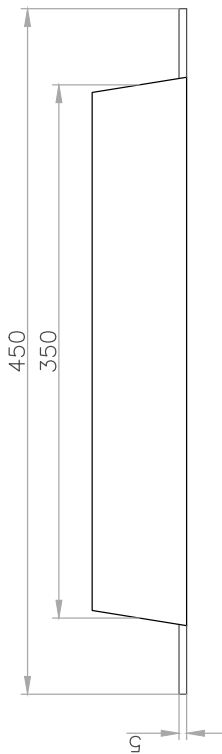
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Other specifications are available on request

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

ANODE TYPE 65-AL-H

scale:n.t.s.	Art. No.:	Weight: +/− 3%
drawn:	Dwg. No.:S11243	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.



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
Titanium	0.01 - 0.05
Indium	0.01 - 0.05
Aluminium	99.95% (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)

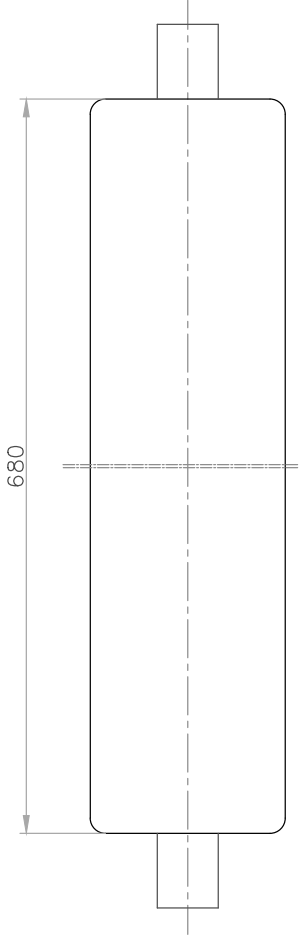
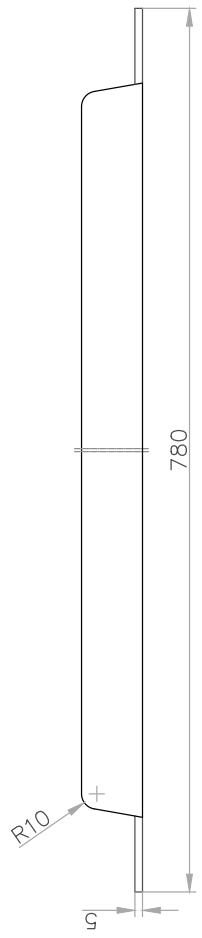
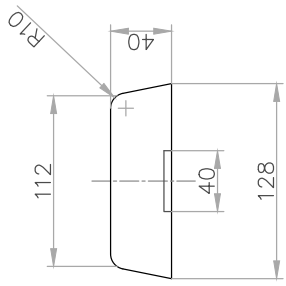
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info@ampak.de

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.: 923942000	Weight: + / - 3%
drawn:	Dwg. No.: S 10213	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 75-AL



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	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)

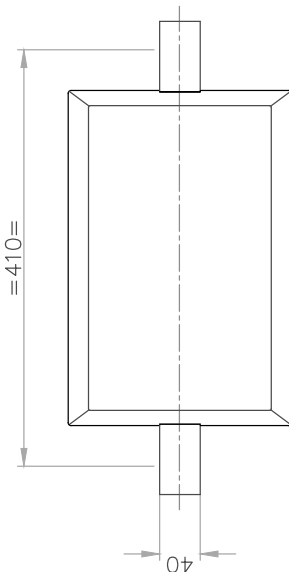
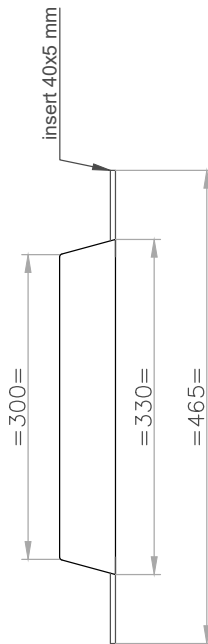
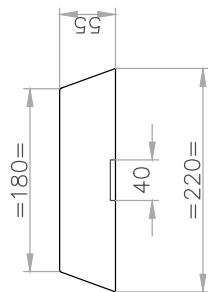
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Anode can also be provided with a coated backside

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
 net 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
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)

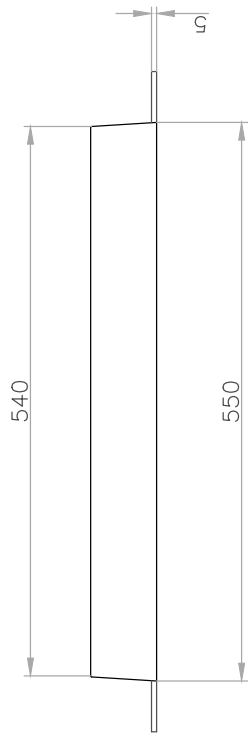
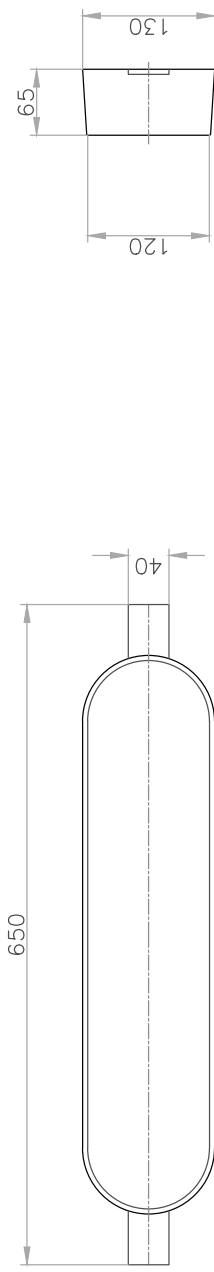
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scale: n.t.s.	Art. No.: 923426000
drawn:	Dwg. No.: S 9096
date:	Dim.: A - 4

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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

ANODE TYPE 95-AL	
Weight: +/- 3%	Gen. Tol.: NACE SP0387

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ALUMINIUM ANODE
 net weight: 10,1 kg
 gross weight: 11,6 kg

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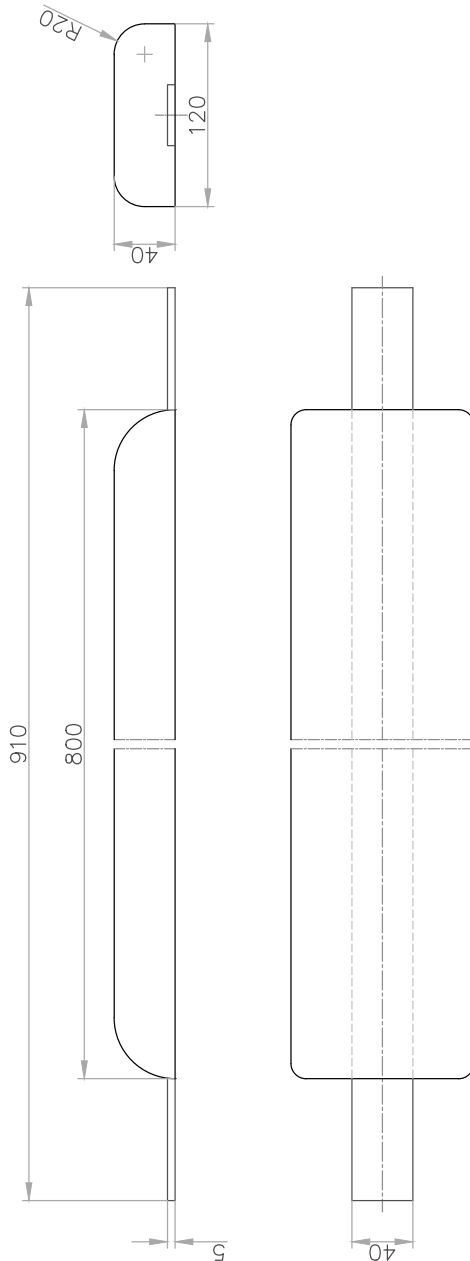
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 Note: All dimensions and weights are nominal. Dimension in mm
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 Anode can also be provided with a coated backside

scalen. i.s.	Art. No.:929038000	Weight: + / - 3%
drawn:	Dwg. No.:S 11069	Gen. Tol.: 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

Aluminium alloy specification	Percentage (%)
Components	Impurities
Silicon	0.10 - 0.15
Zinc	2.0 - 5.0
Titanium	0.01 - 0.05
Indium	0.01 - 0.05
Aluminium	99.85% (99.85% Pure)
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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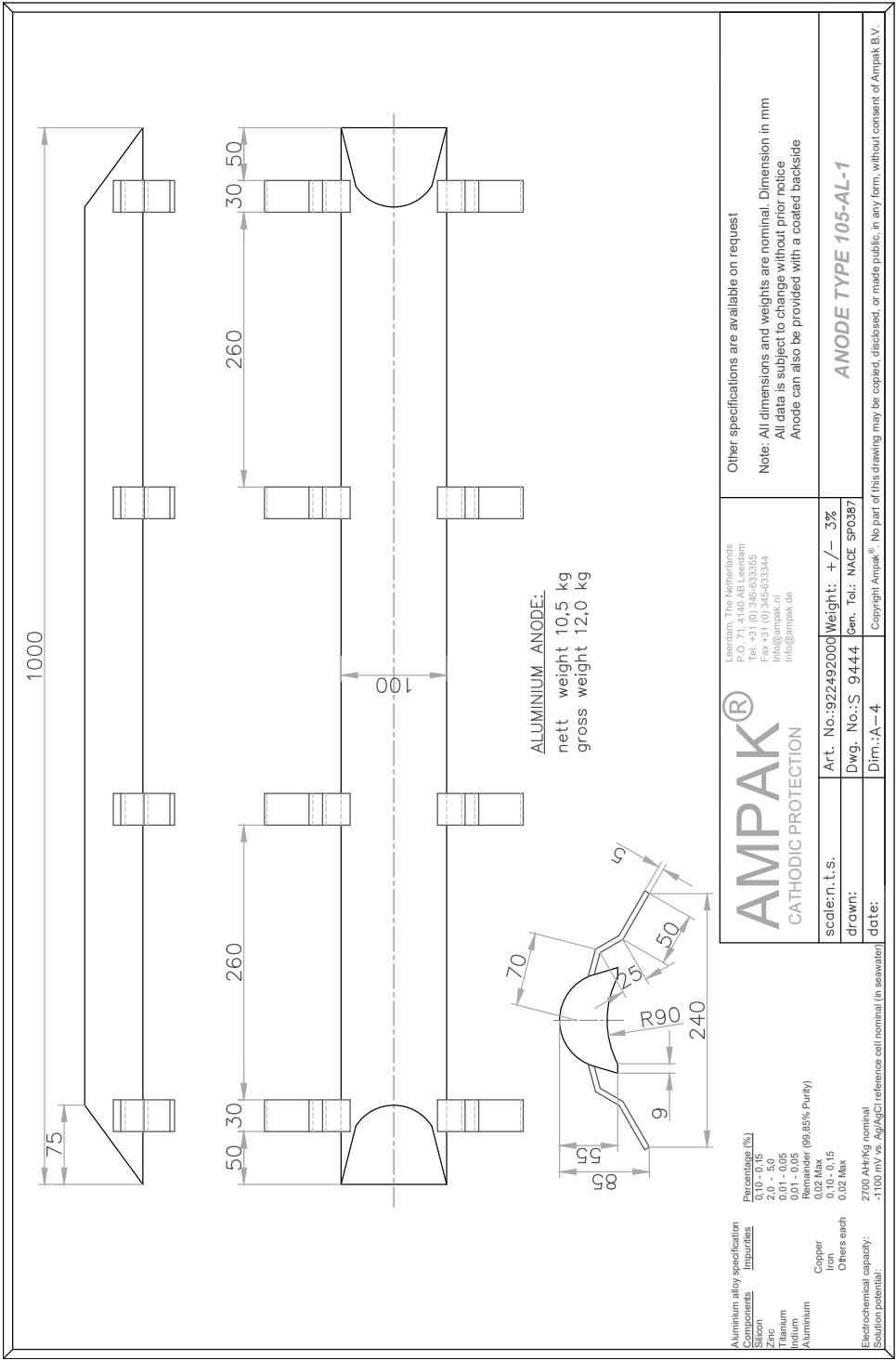
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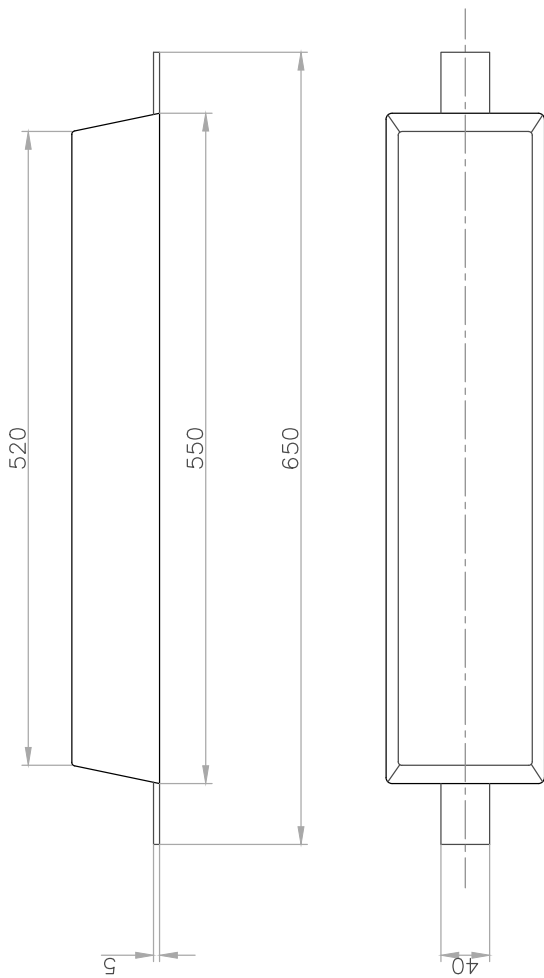
Other specifications are available on request

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.: 922490000	Weight: + / - 3%
drawn:	Dwg. No.: S 4459	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	ANODE TYPE 105-AL

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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
Indium	0.01 - 0.05
Aluminium	Balance (99.85% Purify)
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)

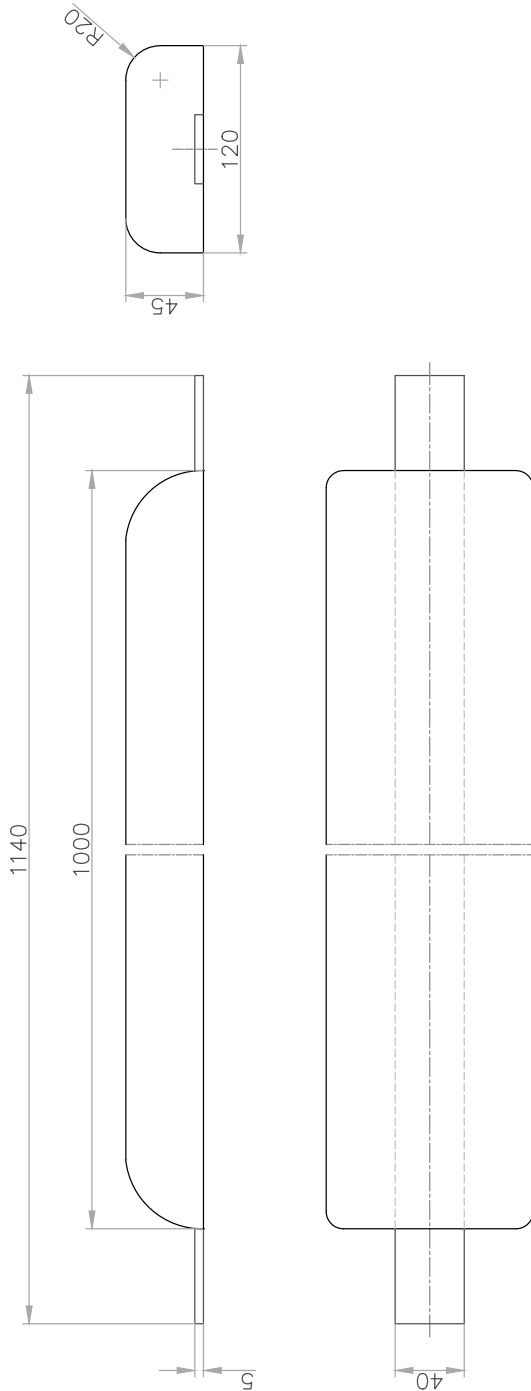
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Anode can also be provided with a coated backside

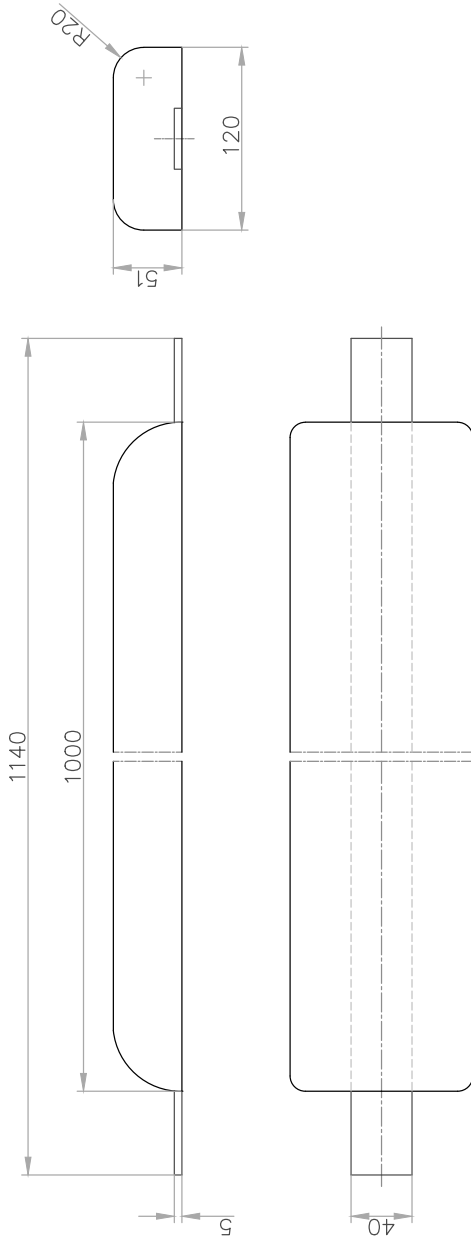
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drawn:	Art. No.:923481000	Weight: + / - 3%	
date:	Dwg. No.:S 9278	Gen. Tol.: NACE SP0387	
	Dim.:A - 4		Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.



ALUMINIUM ANODE:

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

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Components		CATHODIC PROTECTION				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	
Impurities							
Silicon							
Zinc							
2.0 - 5.0							
Titanium							
0.01 - 0.05							
Indium							
0.01 - 0.05							
Aluminum							
Remainder (99.85% Purity)							
Copper							
0.10 - 0.15							
Others each							
0.02 Max							
		scale: n.t.s.		Art. No.: 922499000		Weight: +/- 3%	
		drawn:		Dwg. No.: S 5615		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.	
Electrochemical capacity:						ANODE TYPE 130-AL	
Solution potential:							



ALUMINIUM ANODE:

nett weight 15,0 kg
gross weight 16,0 kg

Aluminum alloy specification
Components
Aluminum
Zinc
Titanium
Indium
Aluminum
Copper
Iron
Others each
Electrochemical capacity:
Solution potential:

Percentage (%)
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 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

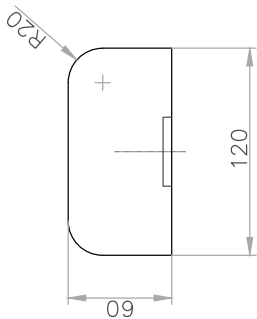
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drawn:	Dwg. No.: S 9070	Gen. Tol.: NACE SP0387	
date:	Dim.: A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.	

1140

1000

5

40



ALUMINIUM ANODE:

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

Aluminium alloy specification
Components
Copper
Zinc
Titanium
Indium
Aluminium
Others each

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

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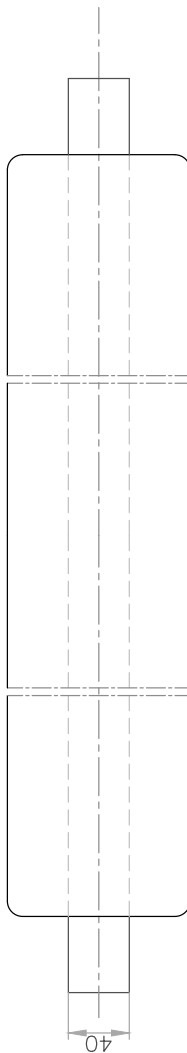
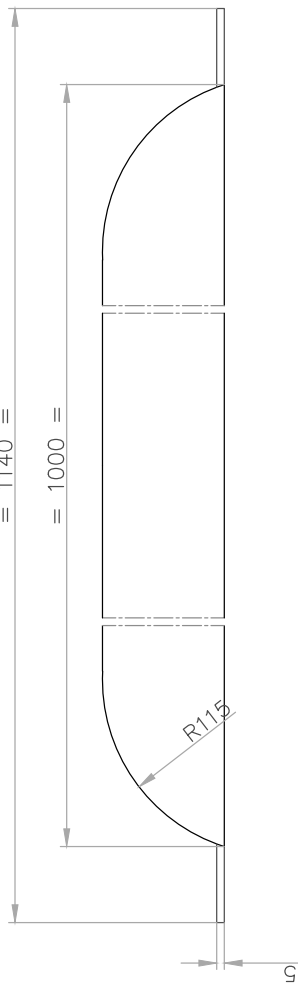
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922500000	Weight: ± / - 3%	ANODE TYPE 190-AL
drawn:	Dwg. No.: S 5568 A	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.	

$$= 1140 =$$

$$= 1000 =$$



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

Aluminium alloy specification	Impurities	Percentages (%)
Components		
Silicon		0.10 - 0.15
Zinc		2.0 - 5.0
Titanium		0.01 - 0.05
Indium		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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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 250-AL

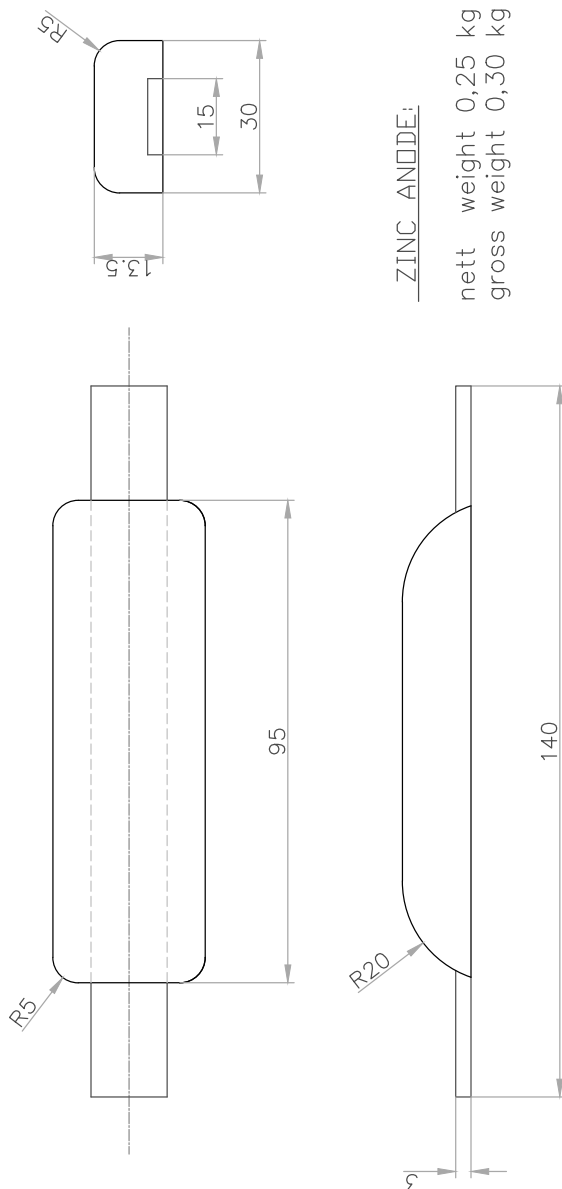
scale:n.t.s.	Art. No.:922494000	Weight: + /- 3%
drawn:	Dwg. No.:S 4648	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

ZINC 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

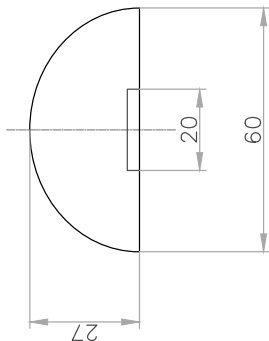
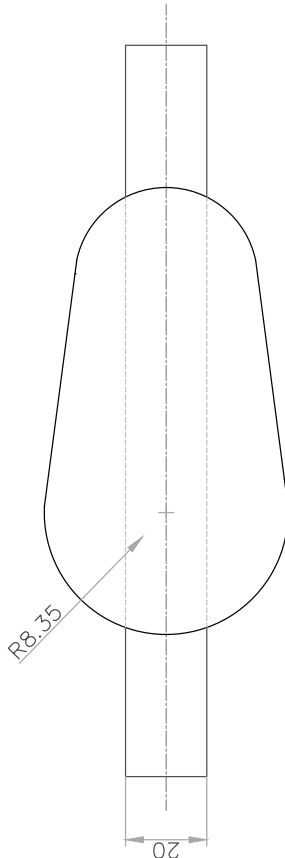
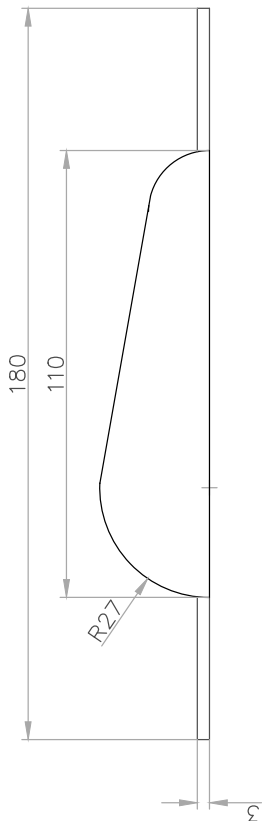




ZINC ANODE:

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

Zinc alloy specifications acc. US MIL Spec-A-18001K		Other specifications are available on request	
Components	Impurities	Note: All dimensions and weights are nominal. Dimension in mm	
Cadmium	0.025-0.07	All data is subject to change without prior notice	
Aluminum	0.10-0.5	Anode can also be provided with a coated backside	
Zinc	Remainder		
Copper	0.005 max		
Iron	0.005 max		
Lead	0.006 max		
Others total	0.10 max		
Electrochemical capacity:	780 Ah/Kg nominal		
Solution potential:	-1050 vs. Ag/AgCl reference cell nominal (in seawater)		
		ANODE TYPE 2.5-Z	



ZINC ANODE

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

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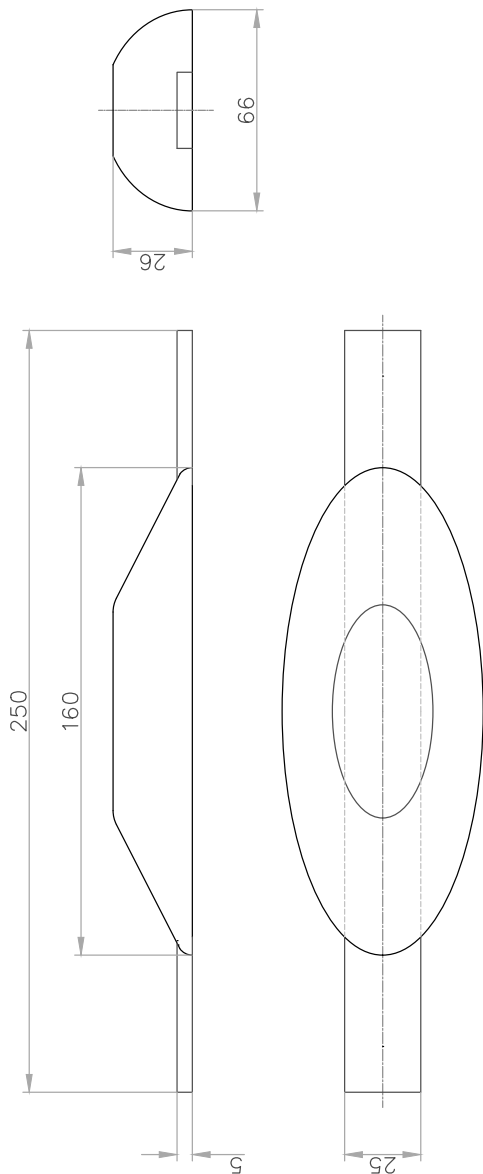
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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drawn:	Dwg. No.: S 4792	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	

ANODE TYPE 6-Z

Zinc alloy specifications acc. US MIL Spec-A-1800-K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.50
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 1,0 kg
 gross weight 1,2 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

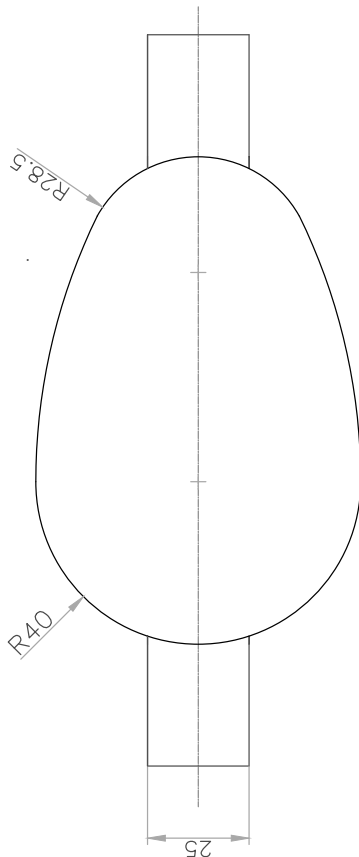
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Zinc alloy specifications acc. US MIL Spec-A-18001K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.5
	0.005 max
Copper	0.005 max
Iron	0.005 max
Lead	0.006 max
Others total	0.10 max
Electrochemical capacity	- 1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential	

scale: n. t. s.	Art. No.: 3922259000	Weight: + / - 3%
drawn:	Dwg. No.: S 8091	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	

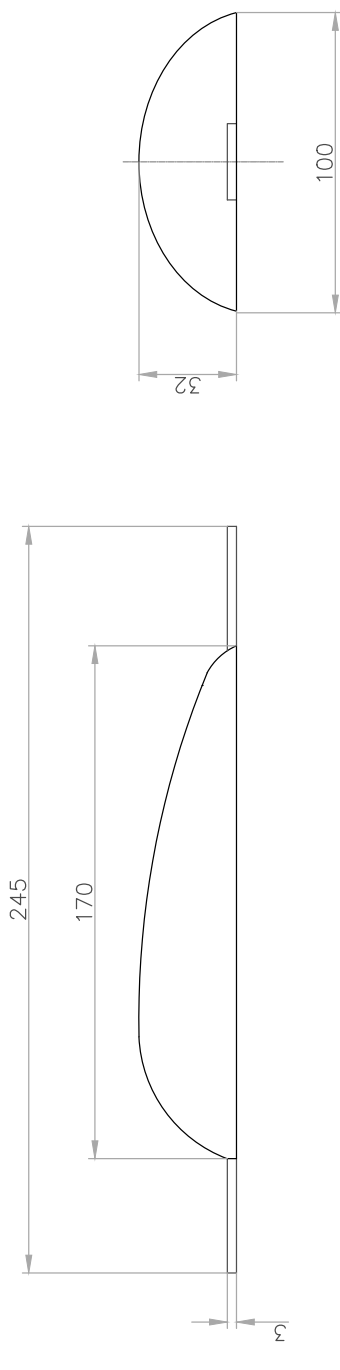
ANODE TYPE 10-Z-H

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nett	weight	1,5 kg
gross	weight	1,6 kg

ANODE TYPE 15-Z



ZINC ANODE:

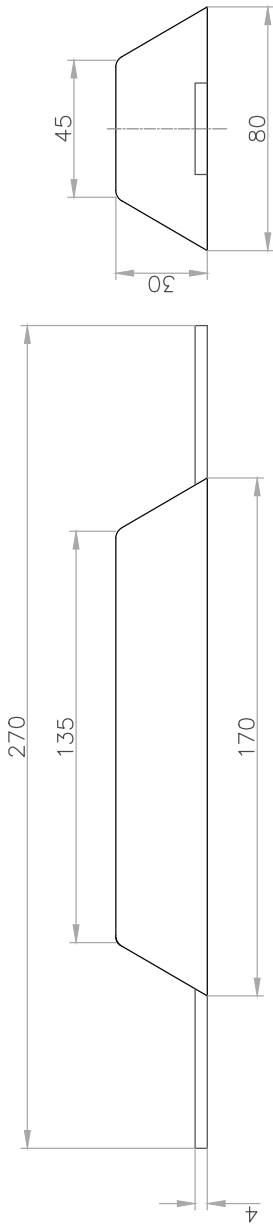
nett weight 2,0 kg
gross weight 2,2 kg

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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

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Zinc alloy specifications acc. to US MIL. Spec-A-8001K Components impurities (%) Aluminum 0.10-0.5 Zinc Remainder		scale: n.t.s.		Note: All dimensions and weights are nominal. Dimensions in mm All data is subject to change without prior notice Anode can also be provided with a coated backside	
Copper 0.005 max Iron 0.005 max Lead 0.006 max Others total 0.10 max Electrochemical potential: -1050 vs. Ag/AgCl reference ion nominal (in seawater) Electrode potential: -1050 vs. Ag/AgCl reference ion nominal (in seawater)		drawn: date:		Art. No.: 922226000 Weight: + / - 3% Gen. Tol.: NACE SP0387 Dwg. No.: S 5711 Dim.: A-4	
				ANODE TYPE 20-Z	

Zinc alloy specifications acc. US MIL Spec-A-18001K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.50
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:
nett weight 2,0 kg
gross weight 2,3 kg

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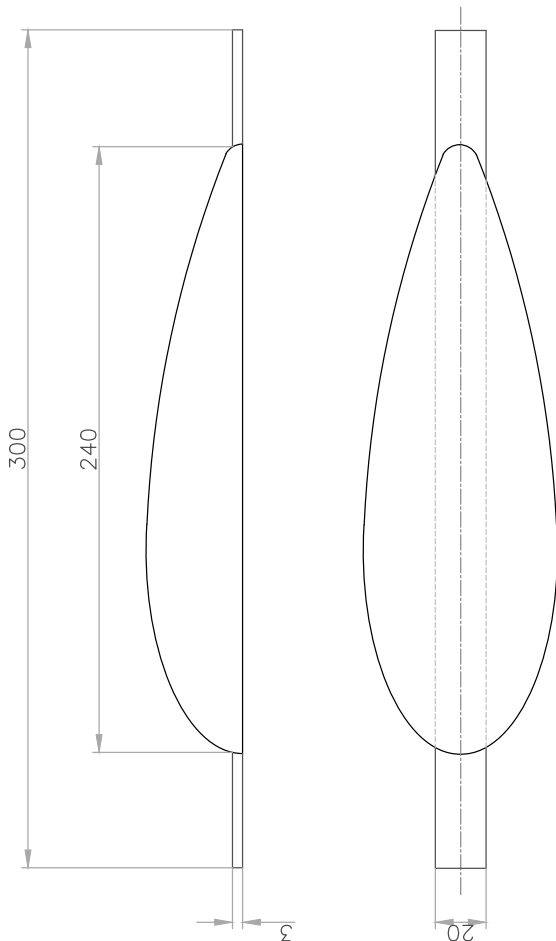
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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drawn:	Dwg. No.: S 7578	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	

ANODE TYPE 20-Z-H

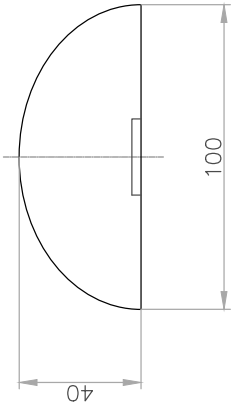
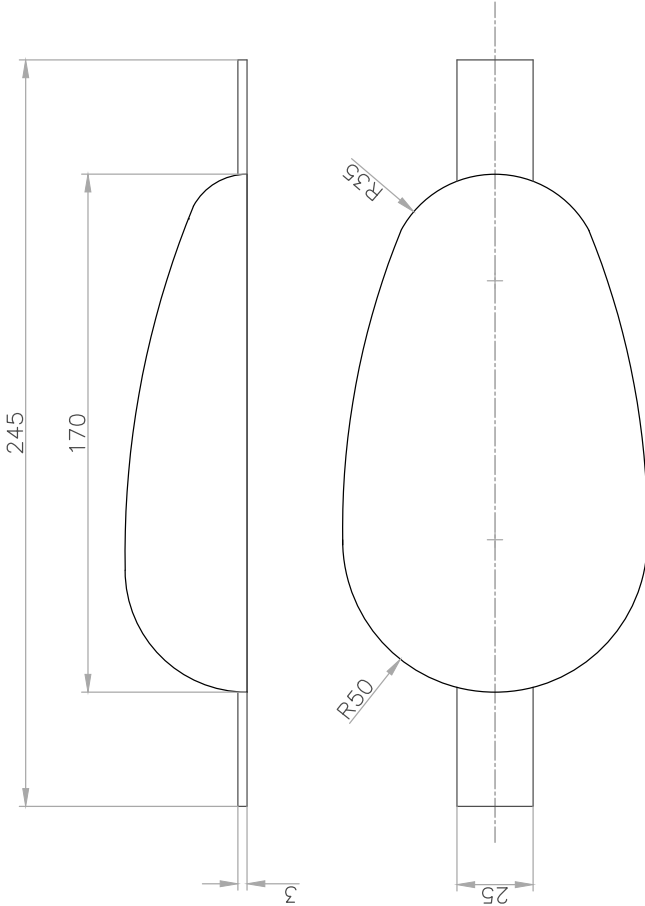
Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentage (%)
Cadmium 0.025-0.07
Aluminum 0.10-0.50
Zinc 0.005 max
Copper 0.005 max
Iron 0.006 max
Lead 0.010 max
Others total 0.10 max
Electrochemical capacity nominal
Solution potential -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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ZINC ANODE:
nett weight 2,6 kg
gross weight 2,8 kg

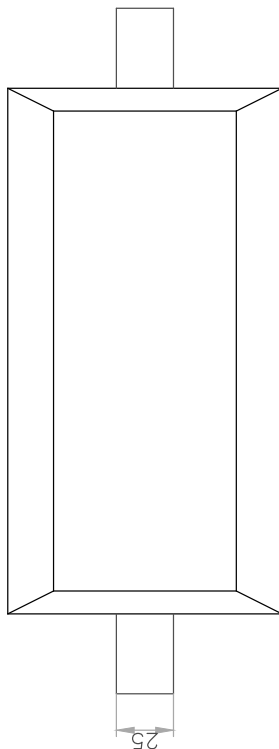
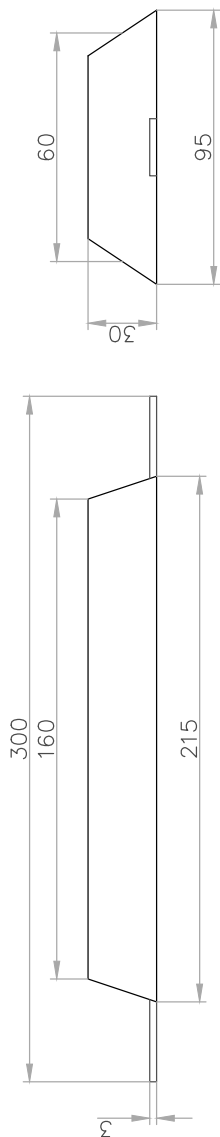
Zinc alloy specifications acc. US MIL Spec-A-1800-K		Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de		Other specifications are available on request	
Components Cadmium Aluminum Zinc		Impurities Percentage (%) 0.025-0.07 0.10-0.5 Remainder Copper Nickel Iron Lead Others total 0.005 max 0.006 max 0.10 max 700 mV/Kg nominal -1050 vs. Ag/AgCl reference cell nominal (in seawater)		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	
Electrochemical capacity Solution potential		Art. No.: 922185000 Dwg. No.: S 5376 Dim.: A-4		Weight: + / - 3% Gen. Tol.: NACE SP0387 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:		ANODE TYPE 26-Z	



ZINC ANODE:

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

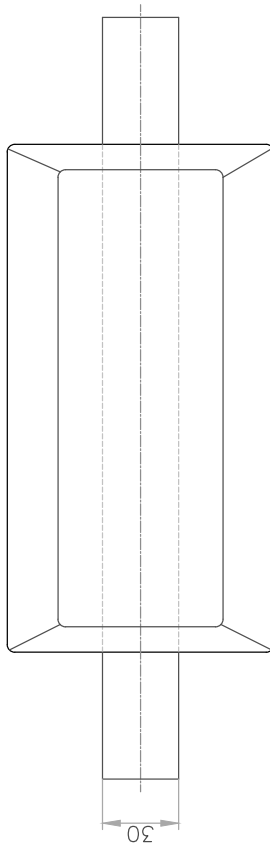
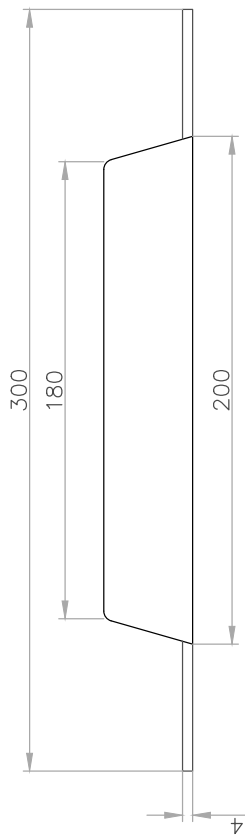
Zinc alloy specifications acc. US MIL Spec-A-18001K		Leerdam, The Netherlands		Other specifications are available on request	
Components	Impurities	P.O. 71, 4140 AB Leerdam		Note: All dimensions and weights are nominal. Dimension in mm	
Cadmium	Percentage (%)	Tel. +31 (0) 345-633355		All data is subject to change without prior notice	
Aluminum	0.025-0.07	Fax +31 (0) 345-633344		Anode can also be provided with a coated backside	
Zinc	0.10-0.5	info@ampak.nl			
	0.005 max	info@ampak.de			
Copper	0.005 max	Art. No.:922180000		ANODE TYPE 28-Z	
Iron	0.005 max	Weight: + / - 3%			
Lead	0.006 max	Gen. Tol.: NACE SP0387			
Others total	0.10 max	Dwg. No.:S 4429			
Electrochemical capacity	- 1050 vs. Ag/AgCl reference cell nominal (in seawater)	Dim.:A-4			
Solution potential		drawn:			
		date:			
		AMPAK®			
		CATHODIC PROTECTION			
		scale:n.t.s.			



ZINC ANODE:

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

Zinc alloy specifications acc. US MIL Spec-A-18001K		LEIDAM, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de		Other specifications are available on request	
Impurities		AMPAK® CATHODIC PROTECTION		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	
Cadmium	0.025-0.07				
Aluminum	0.10-0.5				
Zinc	0.00-0.5				
Copper	Remainder				
Iron	0.005 max				
Lead	0.005 max				
Others total	0.10 max				
Electrochemical capacity, solution potential	780 A/Hr/kg nominal -1050 vs. Ag/AgCl reference cell nominal (in seawater)				
		Art. No.: 926955002		Weight: +/- 3%	
		Dwg. No.: S 11221		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.	



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

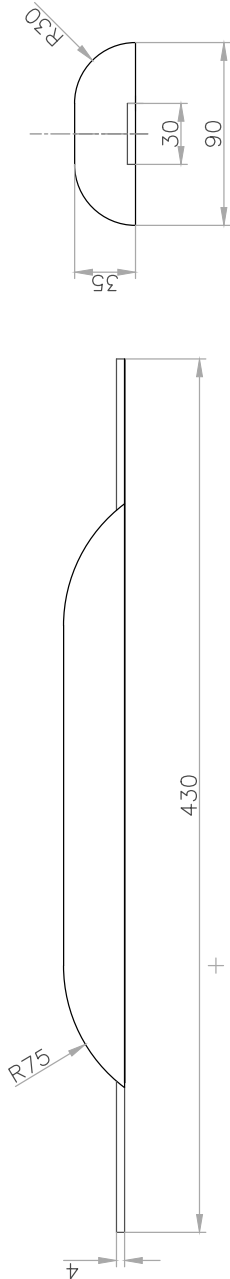
Zinc alloy specifications acc. US MIL Spec-A-18001K
 Components Impurities Percentage (%)
 Cadmium 0.025-0.07
 Aluminum 0.10-0.15
 Zinc 0.005 max
 Copper 0.005 max
 Iron 0.006 max
 Lead 0.006 max
 Others total 0.10 max
 Electrochemical capacity nominal
 Solution potential -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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 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: t.s.	Art. No.: 922234000	Weight: + / - 3%	ANODE TYPE 40-Z-H
drawn:	Dwg. No.: S 7580	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 ANODE:

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

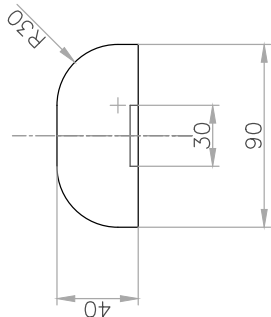
Zinc alloy specifications acc. to US MIL Spec-A-18001K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.50
Copper	0.005 max
Iron	0.005 max
Lead	0.006 max
Others total	0.10 max
Electrochemical capacity	- 1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential	

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Other specifications are available on request

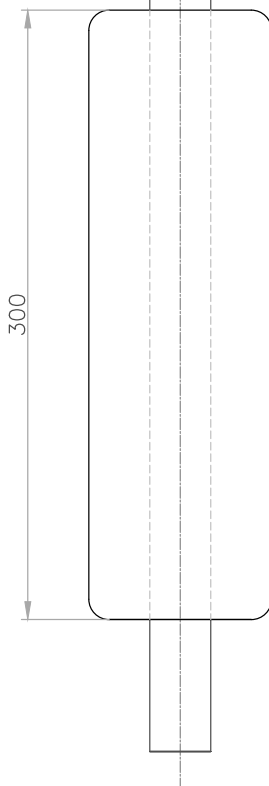
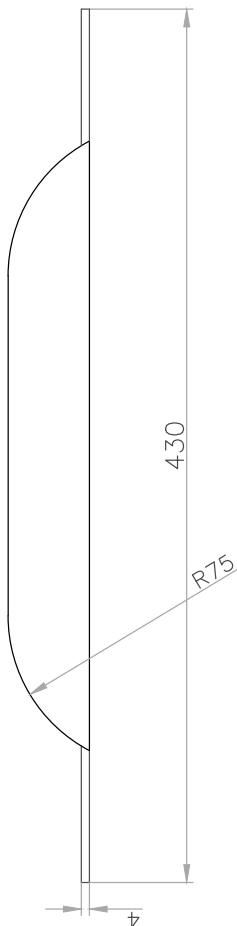
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922188000	Weight: + / - 3%	ANODE TYPE 45-Z
drawn:	Dwg. No.:S 4430A	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 ANODE:

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



Zinc alloy specifications acc. US MIL Spec-A-18001K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.15
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

ANODE TYPE 50-Z

scale: n. t. s.	Art. No.: 3922186000	Weight: + / - 3%
drawn:	Dwg. No.: S 4430	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

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350

240

260

4

100

110

30

30

ZINC ANODE:

nett weight 5,2 kg

gross weight 5,6 kg

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		0,006 max
Lead		0,10 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.:923920000

Weight: + / - 3%

Gen. Tol.: NACE SP0387

Dwg. No.:S 11230

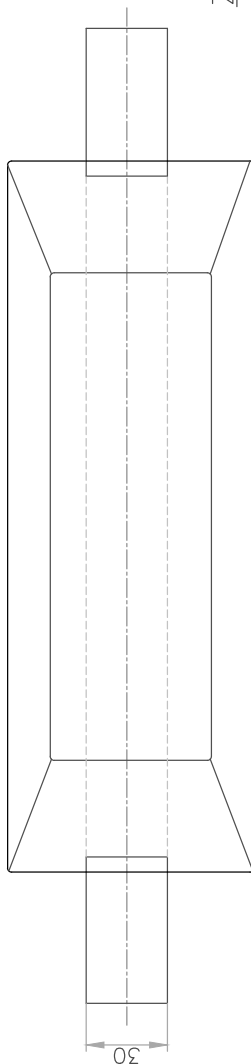
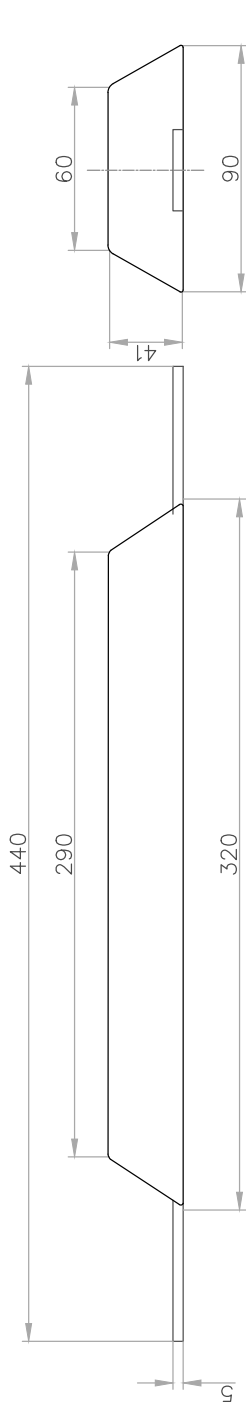
Dim.:A-4

drawn:

date:

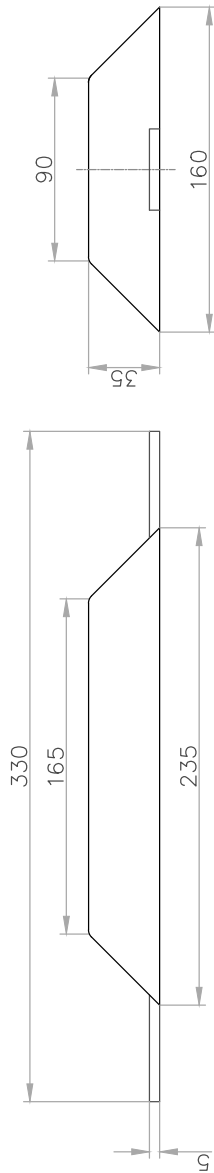
ANODE TYPE 52-Z

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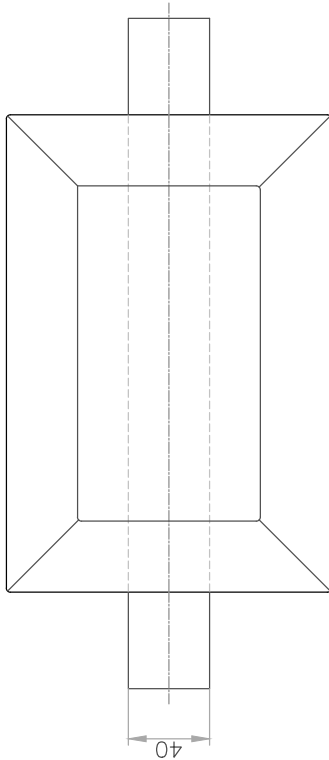


ZINC ANODE:
 nett weight 5,5 kg
 gross weight 6,0 kg

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		Other specifications are available on request	
Components: Cadmium Aluminum Zinc		Impurities: Percentage (%) 0.025-0.07 0.10-0.5 Remainder		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	
Copper Iron Lead Others total 780 A/hr/kg nominal Electrochemical capacity: Solution potential:		Art. No.: Dwg. No.:S 11065 Dim.:A-4		Weight: +/- 3% Gen. Tol.: NACE SP0387 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:		ANODE TYPE 55-Z			



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



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

Components	Impurities	Percentage (%)
Cadmium		0.025-0.07
Aluminum		0.10-0.5
Zinc		0.005 max
Copper		0.005 max
Iron		0.006 max
Lead		0.10 max
Others total		0.10 max

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

Solution potential:

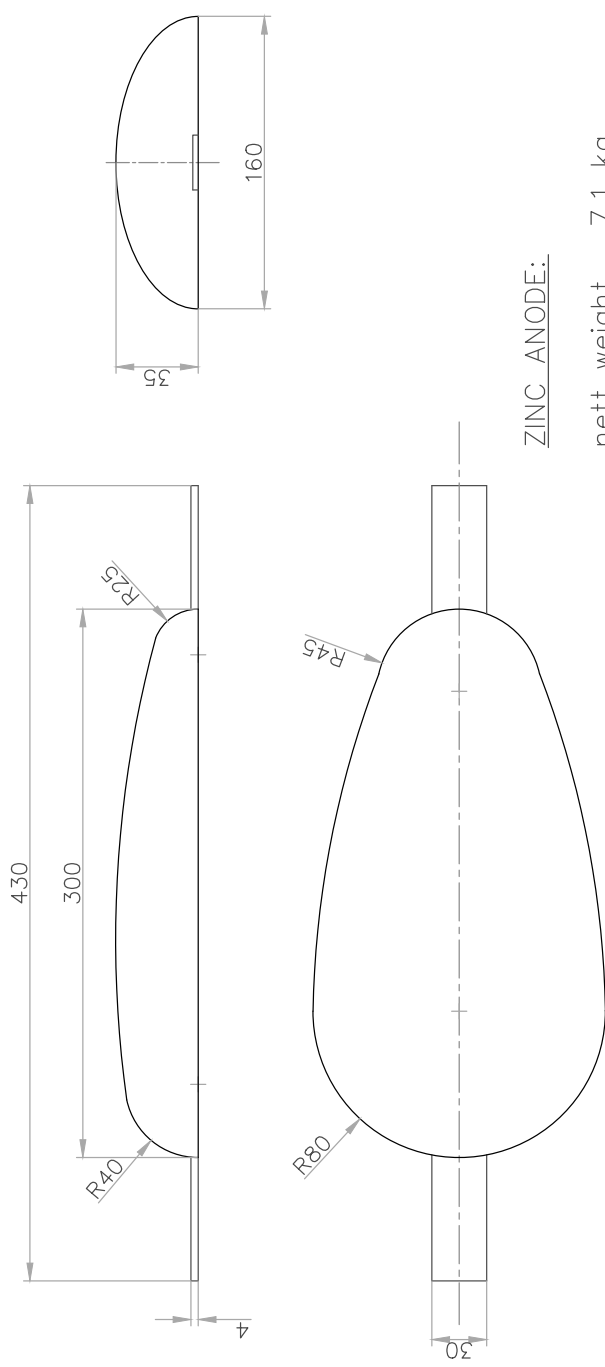
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922235000	Weight: + / - 3%
drawn:	Dwg. No.:S 7582	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	

ANODE TYPE 60-Z-H

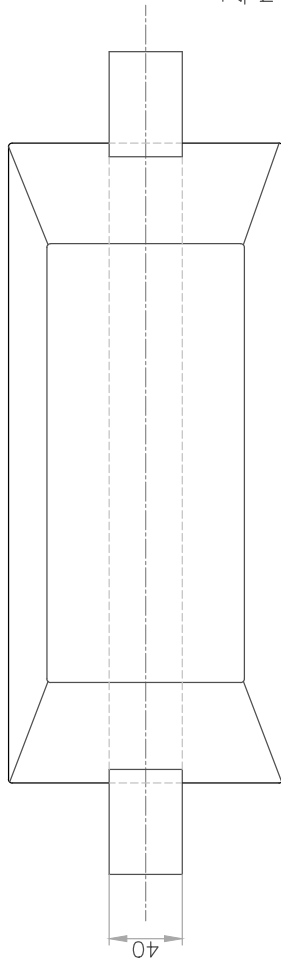
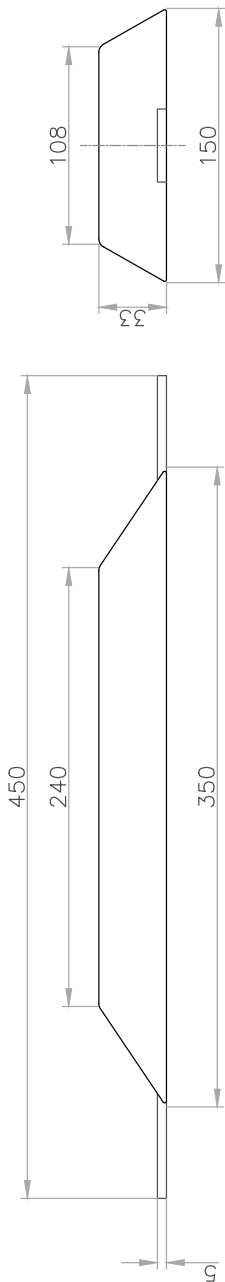
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ZINC ANODE:

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

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		Other specifications are available on request
Components		AMPAK® CATHODIC PROTECTION		
Impurities				
Percentage (%)		Art. No.:922209000		ANODE TYPE 71-Z
Cadmium		Dwg. No.:S 5614		
Aluminum		Gen. Tol.: NACE SP0387		
Zinc		Dim.:A-4		
Copper		scale:n. t.s.		
Iron		drawn:		
Lead		date:		
Others total		Weight: +/- 3%		
Electrochemical capacity:		Art. No.:S 5614		
Solution potential:		Gen. Tol.: NACE SP0387		
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ZINC ANODE:
 nett weight 8,0 kg
 gross weight 8,5 kg

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

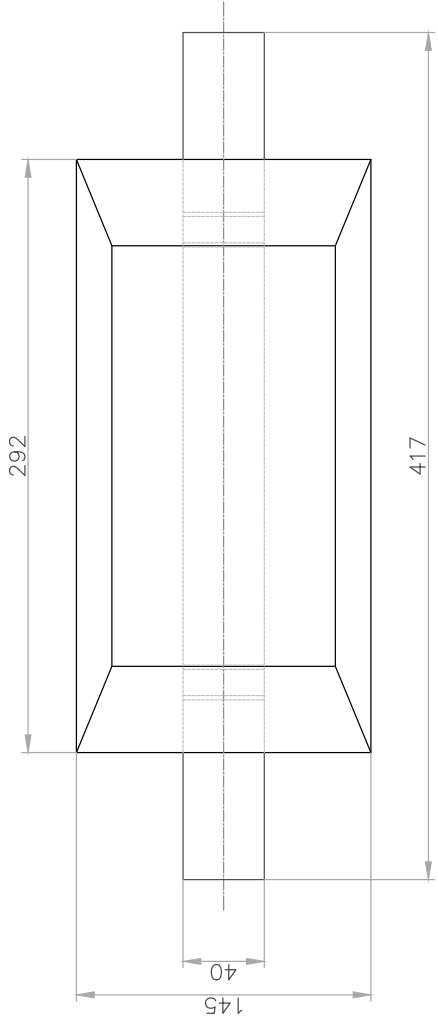
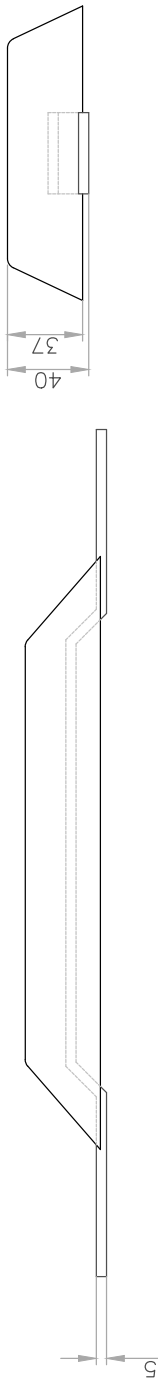
Components	Impurities	Percentage (%)
Cadmium		0.025-0.07
Aluminum		0.10-0.5
Zinc		0.005 max
Copper		0.005 max
Iron		0.005 max
Lead		0.006 max
Others total		0.10 max
Electrochemical capacity		1000 g nominal
Solution potential		-1050 vs. Ag/AgCl reference cell nominal (in seawater)

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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.: 927042000	Weight: + / - 3%	ANODE TYPE 80-Z-H
drawn:	Dwg. No.: S 9600	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 ANODE:
nett weight 9,1 kg
gross weight 9,6 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		0.006 max
Lead		0.10 max
Others total		0.10 max

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

Solution potential:

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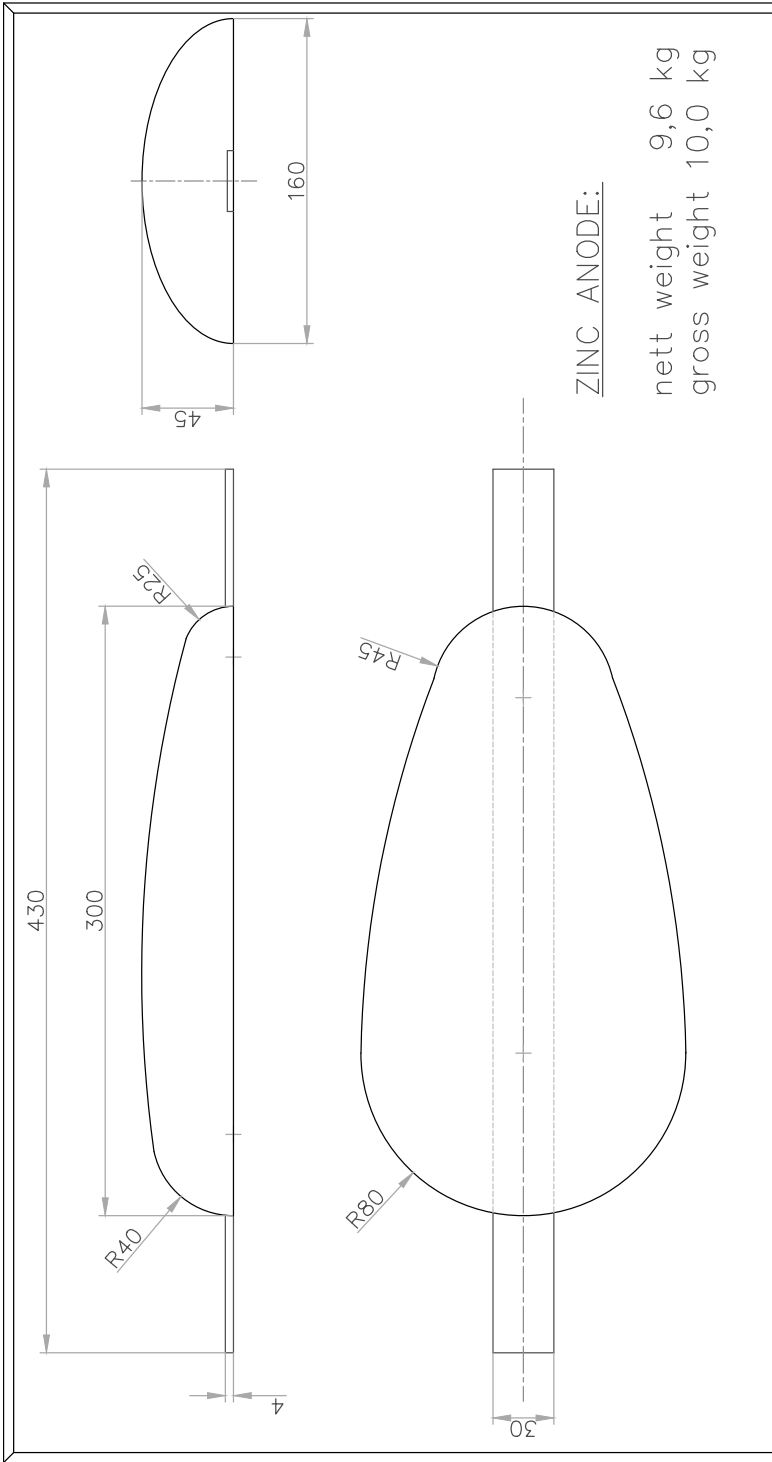
Other specifications are available on request

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.:	Weight: +/− 3%
drawn:	Dwg. No.: S 11068	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODETYPE 91-Z

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ZINC ANODE:

nett weight 9,6 kg
gross weight 10,0 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

ANODE TYPE 96-Z

scale: n.t.s.	Art. No.: 922191000	Weight: + / - 3%
drawn:	Dwg. No.: S 4431	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	

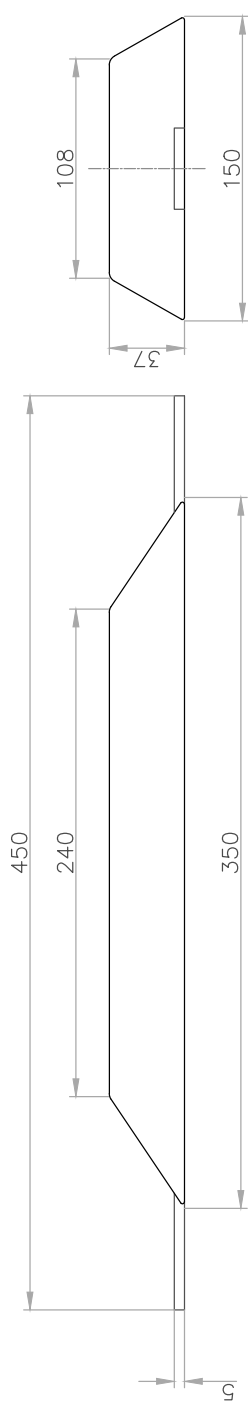
Zinc alloy specifications acc. US MIL Spec-A-18001K

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	0.10 max
Others total	0.10 max

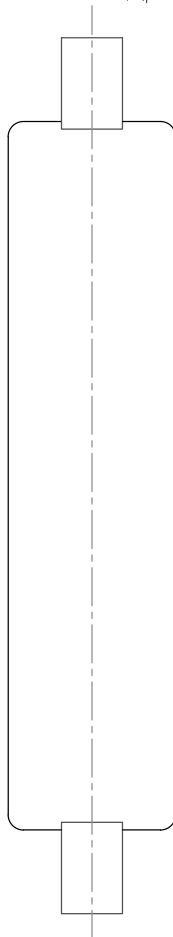
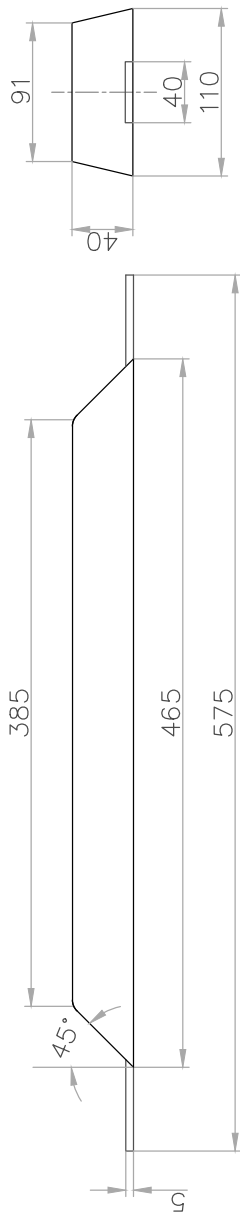
Electrochemical capacity: nominal
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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

Zinc alloy specifications acc. US MIL Spec-A-1800-K		Other specifications are available on request	
Components		Note: All dimensions and weights are nominal. Dimension in mm	
Cadmium	Impurities	All data is subject to change without prior notice	
Gadolinium	Percentage (%)	Anode can also be provided with a coated backside	
Aluminum	0.025-0.07		
Zinc	0.10-0.5		
Copper	Remainder		
Iron	0.005 max		
Lead	0.006 max		
Others total	0.10 max		
Electrochemical capacity: 700 Ah/kg nominal			
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)			
Solder potential:			
		ANODE TYPE 96-Z-H	



ZINC ANODE:

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

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Other specifications are available on request

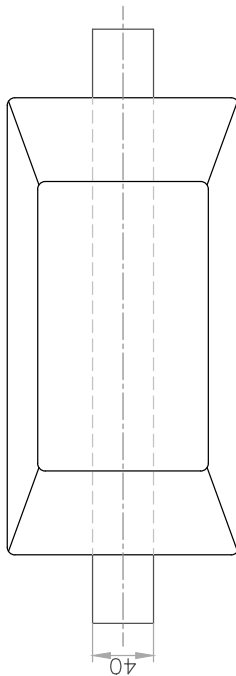
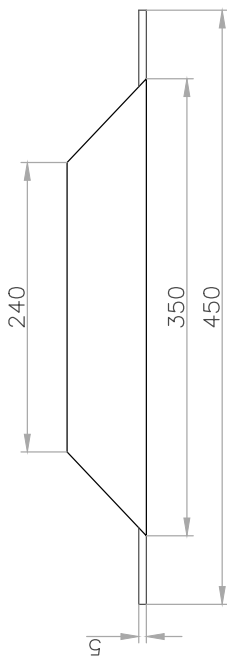
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE 120-Z

scale: n. t. s.	Art. No.: 3922195000	Weight: + / - 3%
drawn:	Dwg. No.: S 5358	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	

Zinc alloy specifications acc. US MIL Spec-A-18001K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.5
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-1800-K
 Components Impurities Percentage (%)
 Cadmium 0.025-0.07
 Aluminum 0.10-0.5
 Zinc 0.005 max
 Copper 0.005 max
 Iron 0.006 max
 Lead 0.10 max
 Others total 0.10 max
 Electrochemical capacity: - 1050 vs. Ag/AgCl reference cell nominal (in seawater)
 Solution potential

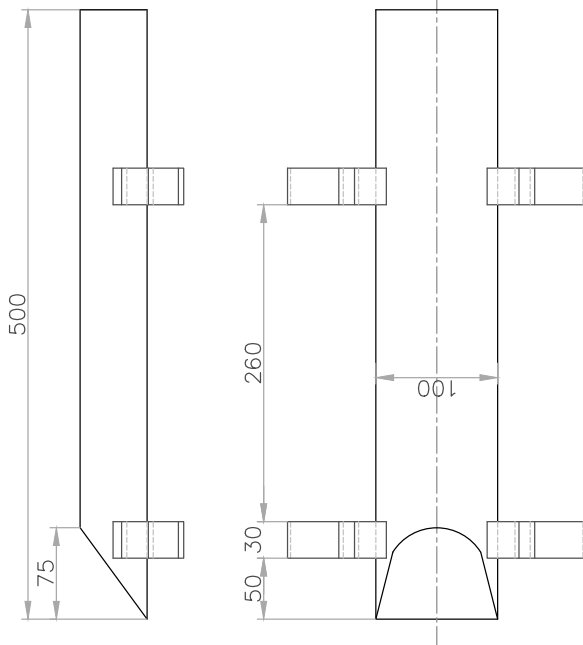
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

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ANODE TYPE 120-Z-H

scale:n.t.s. Art. No.:326959000 Weight: + / - 3%
 drawn:F.J. te Beest Dwg. No:S 10965 Gen. Tol.: NACE SP0387
 date: 6-12-2017 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.



ZINK ANODE:
 nett weight 13,3 kg
 gross weight 14,0 kg
 HELE ANODE TYPE 265-Z / HALVE ANODE TYPE 133-Z

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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

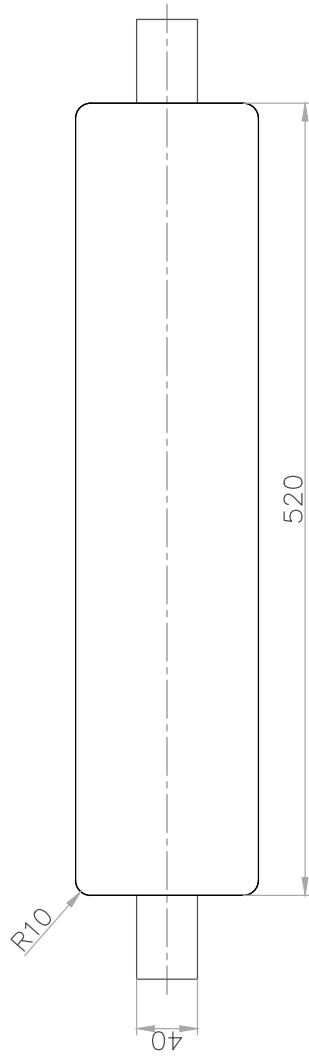
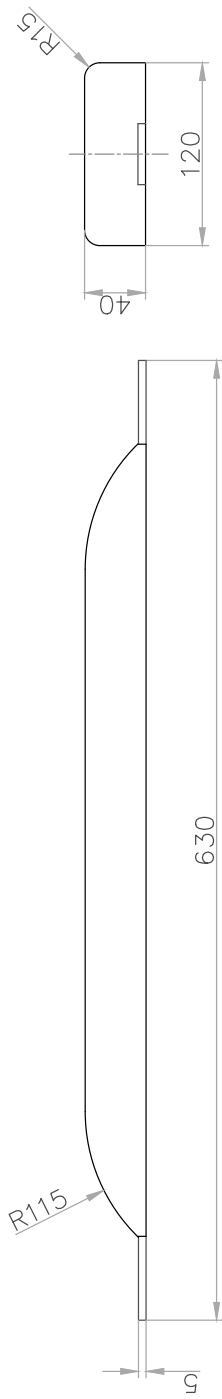
Zinc alloy specifications acc. US MIL Spec-A-1800-K

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		

scale: n. t. s.	Art. No.: 3922197000	Weight: + / - 3%
drawn:	Dwg. No.: S 9538	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	

ANODE TYPE 133-Z

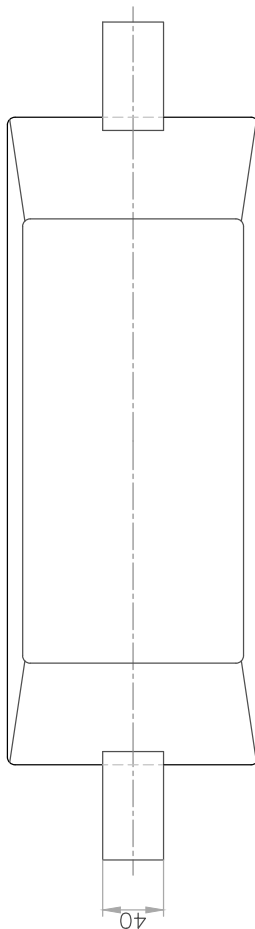
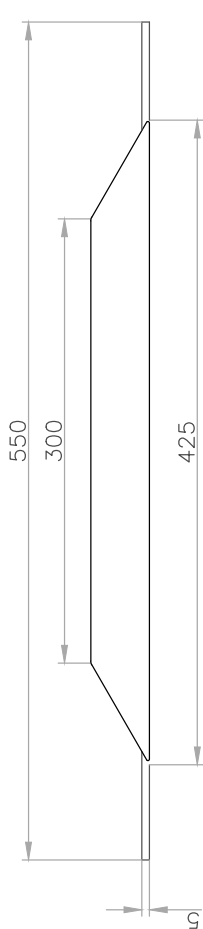
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ZINC ANODE:

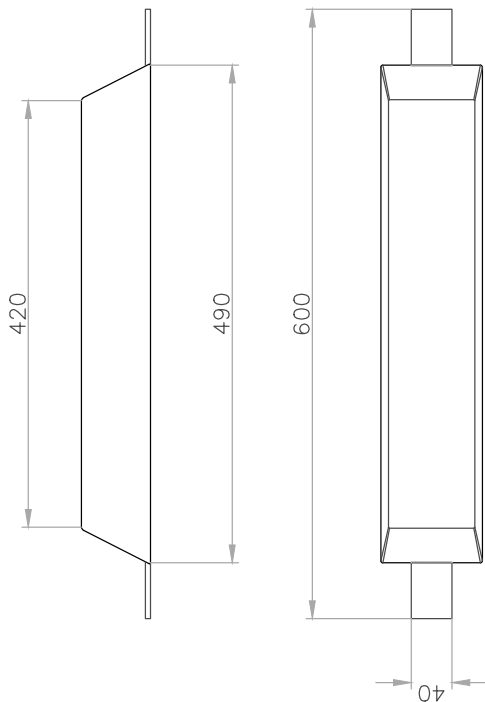
nett weight 15,5 kg
gross weight 16,1 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K		AMPAK®		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		Other specifications are available on request	
Components		CATHODIC PROTECTION					
Impurities							
Percentage (%)							
Cadmium		0.025-0.07					
Aluminum		0.10-0.5					
Zinc		0.10-0.5					
Copper		0.005 max		scale:n. t.s.		Art. No.:922199000	
Iron		0.005 max		drawn:		Dwg. No.:S 4433	
Lead		0.006 max		date:		Dim.:A-4	
Others total		0.10 max				Weight: +/- 3%	
Electrochemical capacity:		780 Ah/Kg nominal				Gen. Tol.: NACE SP0387	
Solution potential:		-1050 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.	



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

Zinc alloy specifications acc. US MIL Spec-A-1800-K		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	
Components Cadmium Aluminum Zinc		AMPAK® CATHODIC PROTECTION	
Impurities Percentage (%) 0.025-0.07 0.10-0.5 Remainder max 			



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

AMPAK®
 CATHODIC PROTECTION

Other specifications are available on request

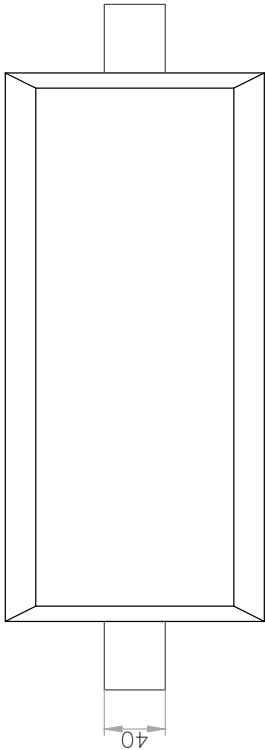
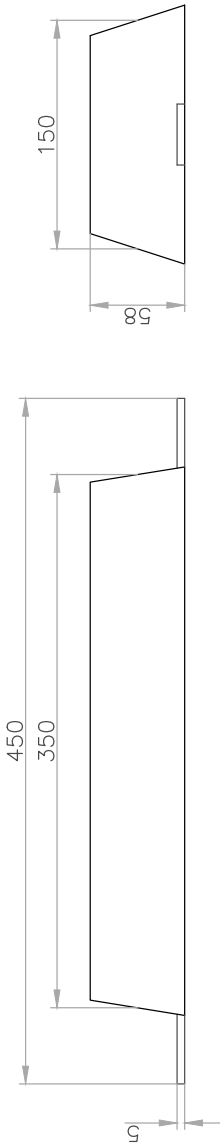
Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE 170-Z-H

scale: n.t.s.	Art. No.:	Weight: +/− 3%
drawn: F.J. te Beest	Dwg. No.: S 11081	Gen. Tol.: NACE SP0387
date: 21-5-2019	Dim.: A-4	

Zinc alloy specifications acc. US MIL Spec-A-18001K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.5 max
	0.005 max
Copper	0.005 max
Iron	0.006 max
Lead	0.10 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 19,0 kg
gross weight 19,5 kg

Zinc alloy specifications acc. US MIL Spec-A-18001K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.5
Electrochemical capacity	
Copper	0.005 max
Iron	0.005 max
Lead	0.006 max
Others total	0.10 max
Solution potential	
-1050 vs. Ag/AgCl reference cell nominal (in seawater)	

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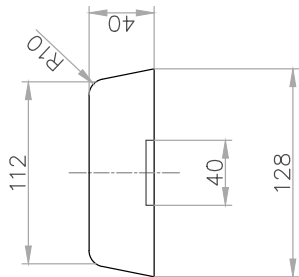
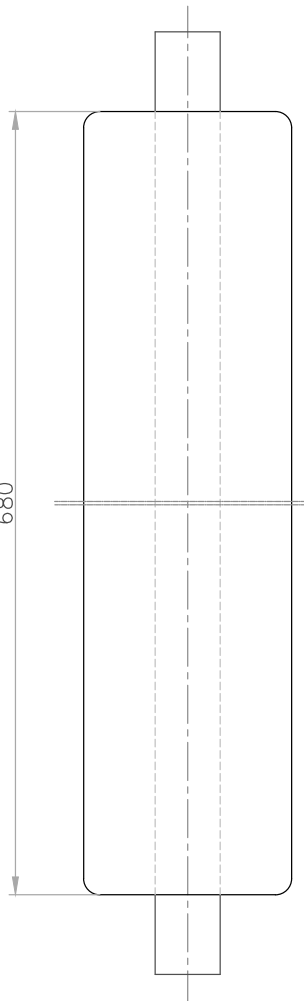
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info@ampak.nl
info@ampak.de

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.: 926918000	Weight: + / - 3%	ANODE TYPE 190-Z
drawn:	Dwg. No.: S 11070	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.	

680



R10

5

780

ZINC ANODE:

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

Zinc alloy specifications acc. US MIL Spec-A-18001K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.15
Copper	0.005 max
Iron	0.005 max
Lead	0.006 max
Others total	0.10 max
Electrochemical capacity	1000 g nominal
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

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CATHODIC PROTECTION

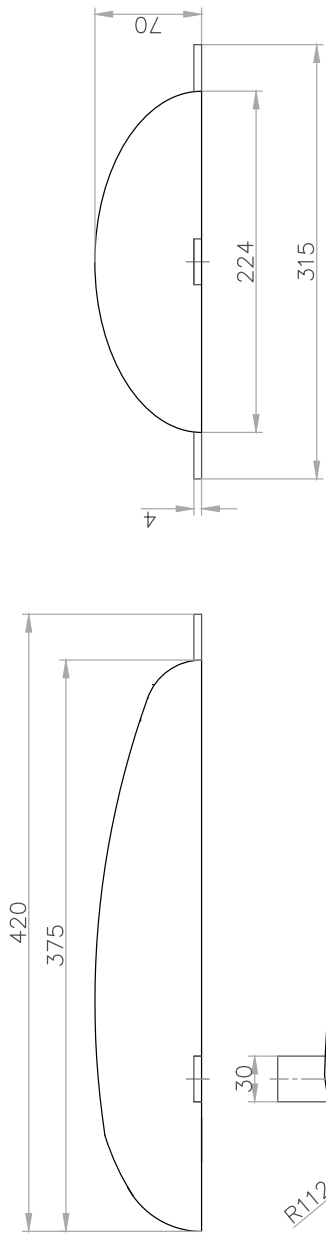
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n. t.s.	Art. No.:922215000	Weight: + / - 3%
drawn:	Dwg. No.:S 5617	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	

ANODE TYPE 217-Z

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ZINC ANODE:

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

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

Components	Impurities	Percentage (%)
Cadmium		0.025-0.07
Aluminum		0.10-0.5
Zinc		99.80-99.90

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:

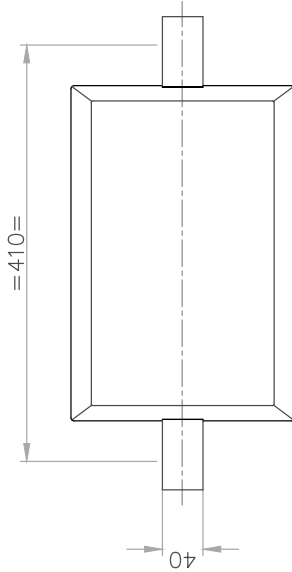
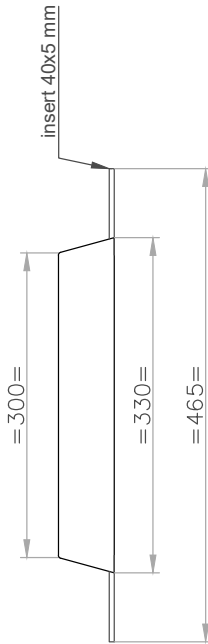
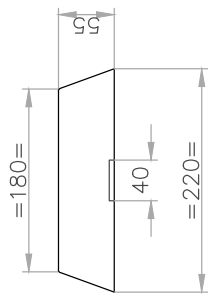
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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

net weight: 24,0 kg
gross weight: 24,5 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 240-Z

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

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

scale: t.s.

Art. No.:

Weight: + / - 3%

drawn:

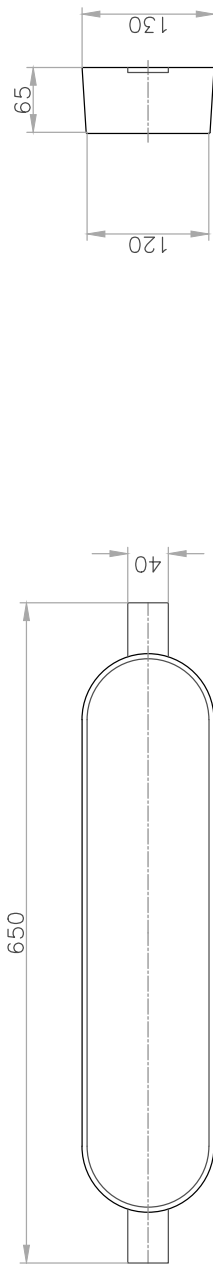
Dwg. No.: S 11071

Gen. Tol.: NACE SP0387

date:

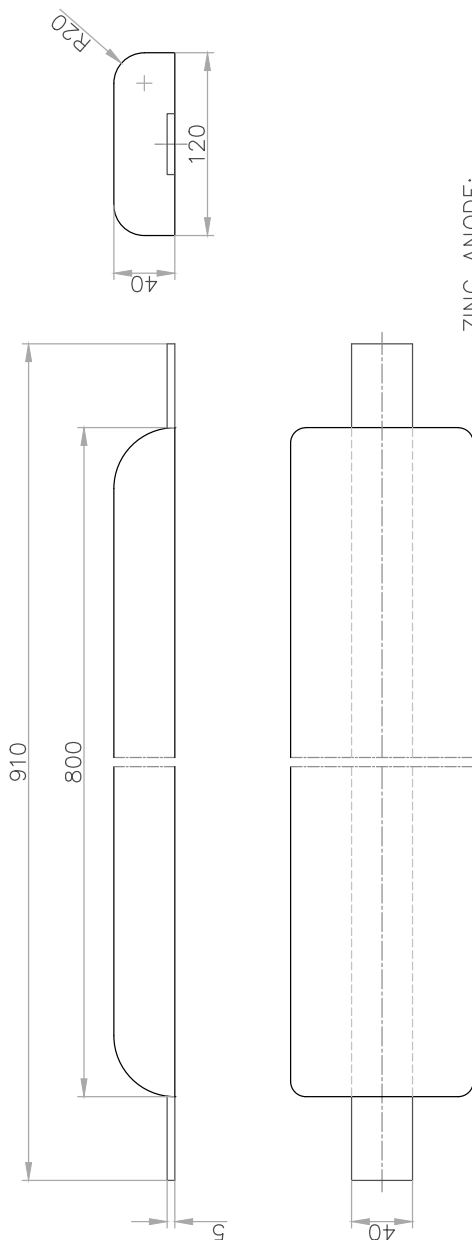
Dim.: A - 4

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ZINC ANODE
 net weight: 25,0 kg
 gross weight: 26,5 kg

Zinc alloy specifications acc. US MIL Spec-A-1800-K Components <u>Impurities</u> Cadmium 0.025-0.07 Aluminum 0.10-0.5 Zinc 0.005-0.07 Remainder max Copper 0.005 max Iron 0.006 max Lead 0.006 max Others total 0.10 max 7000-Mg/Kg nominal Electrochemical capacity - 1050 vs. Ag/AgCl reference cell nominal (in seawater) Solution potential		AMPAK® CATHODIC PROTECTION		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		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.: 926032000		Weight: + / - 3%		ANODETYPE 250-Z	
drawn:		Dwg. No.: S 10921		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 ANODE:

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

Zinc alloy specifications acc. US MIL Spec-A-18001K		AMPAK®		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		Other specifications are available on request	
Components		CATHODIC PROTECTION					
Impurities							
Percentage (%)							
Cadmium		0.025-0.07					
Aluminum		0.10-0.5					
Zinc		Remainder					
Copper		0.005 max		scale: n.t.s.		Art. No.: 922202000	
Iron		0.005 max		drawn:		Dwg. No.: S 4437	
Lead		0.006 max		date:		Dim.: A-4	
Others total		0.10 max				Weight: + / - 3%	
Electrochemical capacity:		780 Ah/Kg nominal				Gen. Tol.: NACE SP0387	
Solution potential:		-1050 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.	
						ANODE TYPE 260-Z	

520

550

650

110

72

130

5

40

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

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Other specifications are available on request

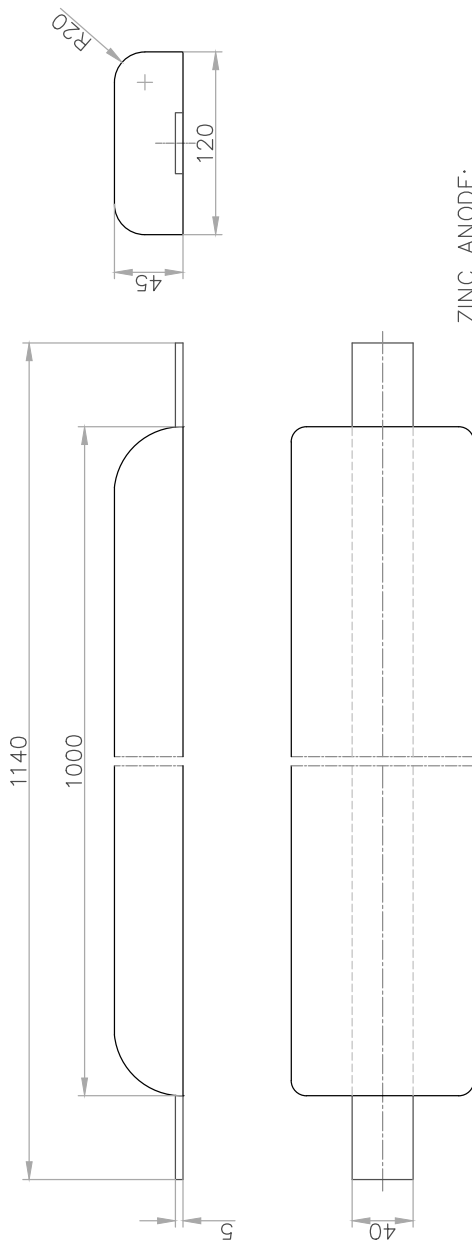
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE 310-Z

scale:n. t.s.	Art. No.:	Weight: + / - 3%
drawn:	Dwg. No.:S 11072	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

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

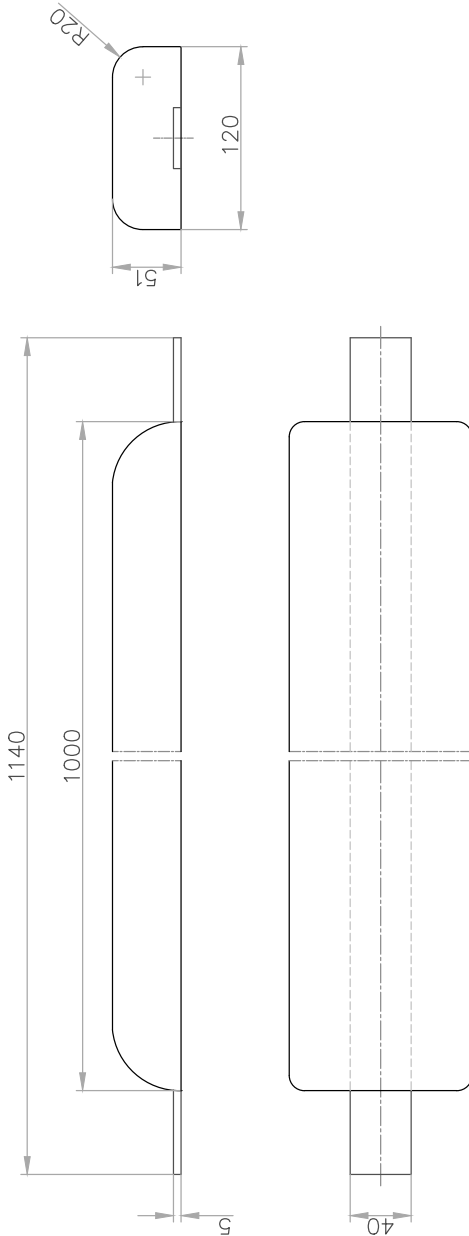
nett weight 32,0 kg
gross weight 33,0 kg

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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

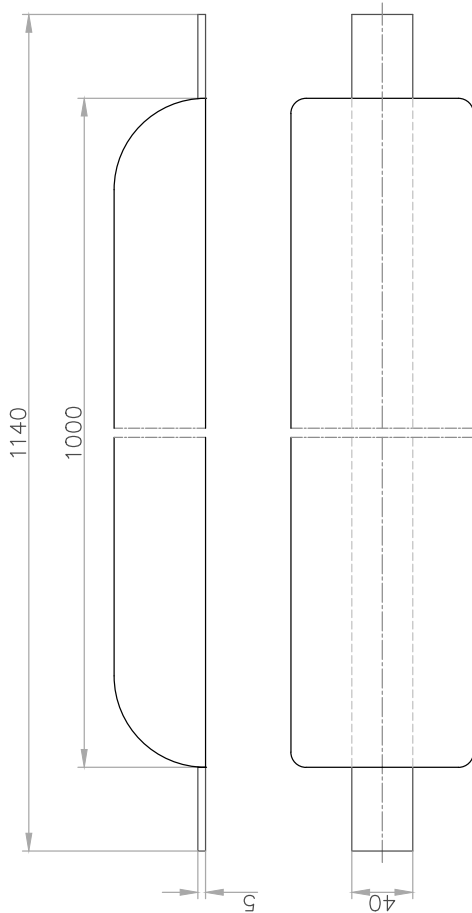
Zinc alloy specifications acc. US MIL Spec-A-18001K		Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de		Other specifications are available on request	
Components		Art. No.: 922210000		ANODETYPE 320-Z	
Impurities		Weight: + / - 3%			
Cadmium		Dwg. No.: S 5620		Gen. Tol.: NACE SP0387	
Aluminum		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		scale: t.s.			
Copper		drawn:			
Iron		date:			
Lead					
Others total					
780 Ahr/ing nominal					
-1050 vs. Ag/AgCl reference cell nominal (in seawater)					
Electrochemical capacity					
Solution potential					



ZINC ANODE:

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

Zinc alloy specifications acc. US MIL Spec-A-1800-K		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	
<u>Components</u> Cadmium Aluminum Zinc		Other specifications are available on request	
<u>Impurities</u> Percentage (%) 0.025-0.07 0.10-0.5 Remainder max			



ZINC ANODE:

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

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Art. No.: 392213000
Dwg. No.: S 5569A
Dim.: A-4

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

Other specifications are available on request

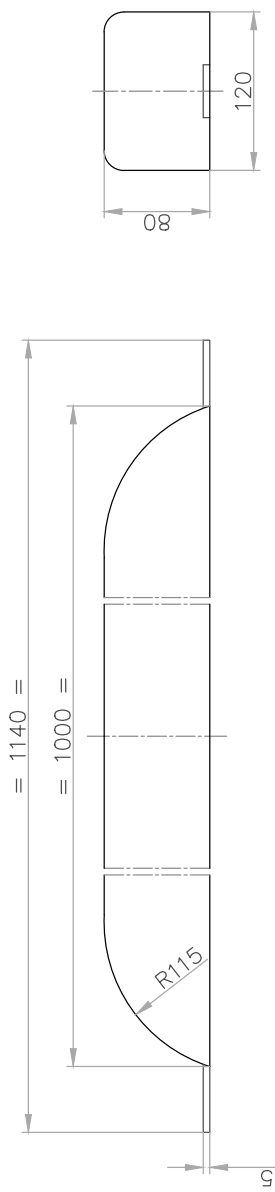
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE 485-Z

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Zinc alloy specifications acc. to US MIL Spec-A-18001K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.15
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	

89



ZINC ANODE:

nett weight 62,0 kg
gross weight 63,3 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

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		ANODE TYPE 620-Z	
Components	Impurities	Percentage (%)	Art. No.: 322214000	Weight: + / - 3%	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.
Cadmium		0.025-0.07	Dwg. No.: S 4892	Gen. Tol.: NACE SP0387	
Aluminum		0.10-0.5	Dim.: A-4		
Zinc		0.005 max			
Copper		0.005 max			
Iron		0.006 max			
Lead		0.10 max			
Others total		0.10 max			
Electrochemical capacity		- 1050 vs. Ag/AgCl reference cell nominal (in seawater)			
Solution potential					

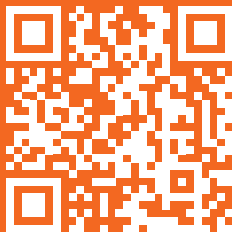
ALUMINIUM BOLT-ON HULL ANODES

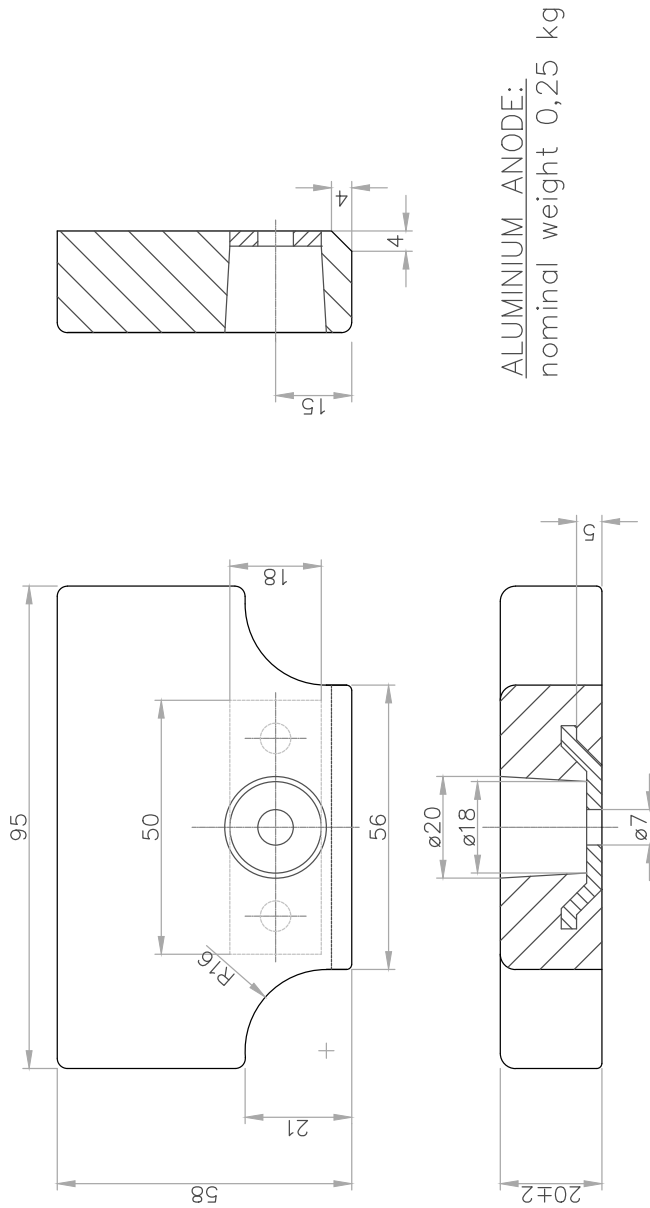
The next pages gives only a selection of types we have available.

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.

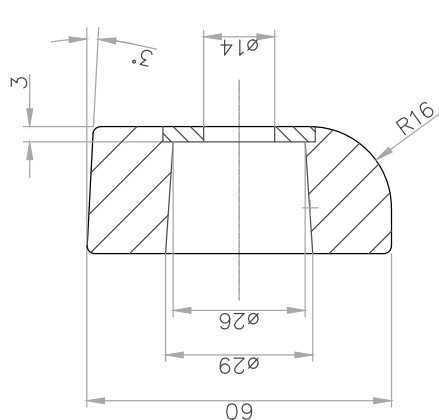
For contact scan QR-code



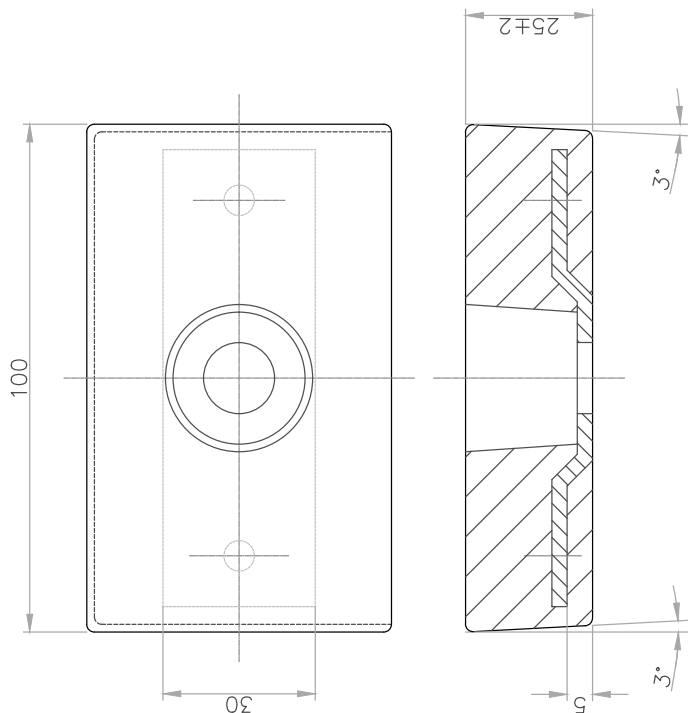


ALUMINIUM ANODE:
nominal weight 0,25 kg

Aluminium alloy specification Components Aluminum Impurities Copper Iron Others each Electrochemical capacity: Solution potential:		Percentages (%) Aluminum 99.85 Impurities Copper 0.10 - 0.15 Iron 0.02 Max Others each 2700 Ah/Kg nominal -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)		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	
AMPAK® CATHODIC PROTECTION		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		ANODE TYPE SP-1 AL	
scale: n.t.s.		Art. No.: Dwg. No.: S 11075 Dim.: A-4		Weight: + / - 3% Gen. Tol.: NACE SP0387	
drawn: date:		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:
nominal weight 0,3 kg



Aluminum 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
Aluminum	99.85% (99.85% Pure)
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

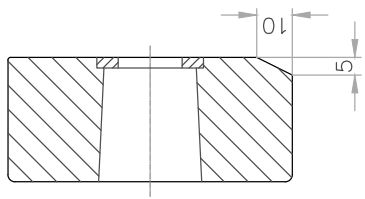
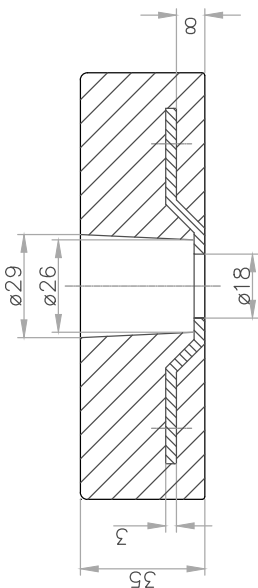
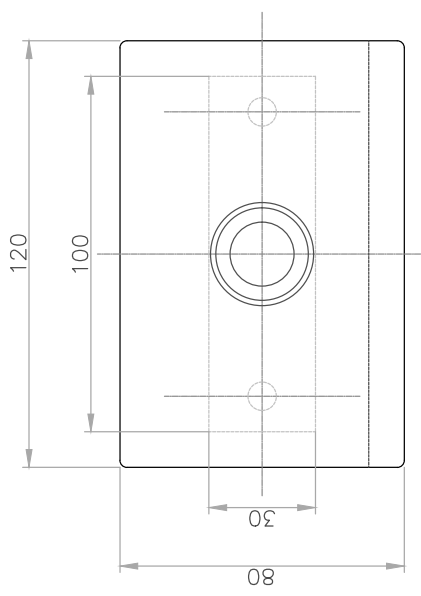
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE 3-AL

Art. No.:
Dwg. No.:S 11073
Weight: +/− 3%
Gen. Tol.: NACE SP0387

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

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ALUMINIUM ANODE:
nominal weight 0,7 kg

Aluminum alloy specification
Components
Silicon
Zinc
Titanium
Indium
Aluminum
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
0.01 - 0.05
Aluminum (99.95% 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)

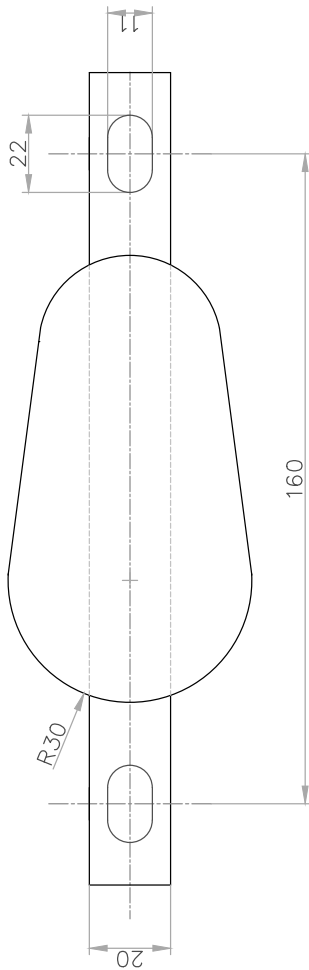
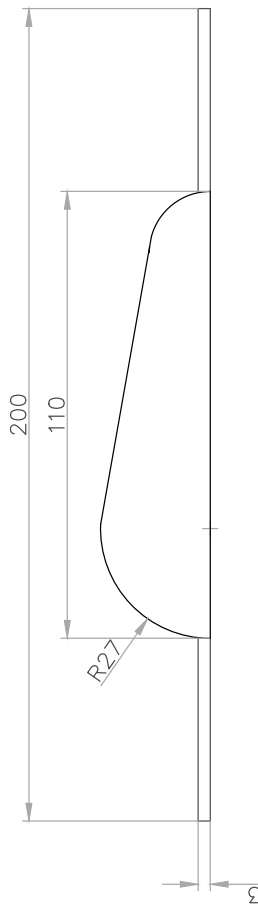
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Art. No.:	Weight: +/− 3%
Dwg. No.:S 11074	Gen. Tol.: NACE SP0387
Dim.:A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

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ANODE TYPE 7-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



ALUMINIUM ANODE

nominal weight 0,30 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	99.85% (99.95% Purify)
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	
99.85% (99.95% Purify)	
0.02 Max	
0.10 - 0.15	
0.02 Max	

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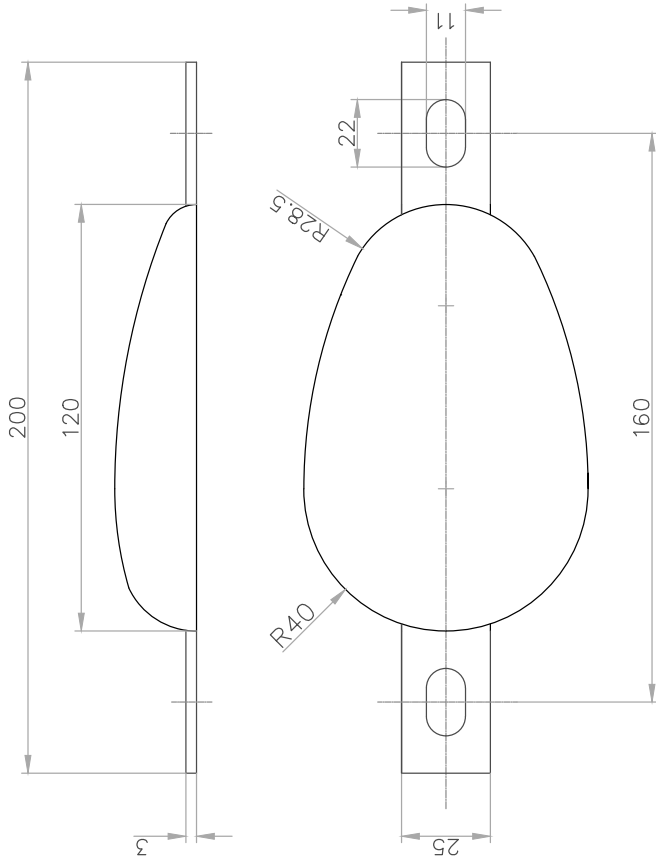
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info@ampak.de

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

ANODE TYPE EA-0.3

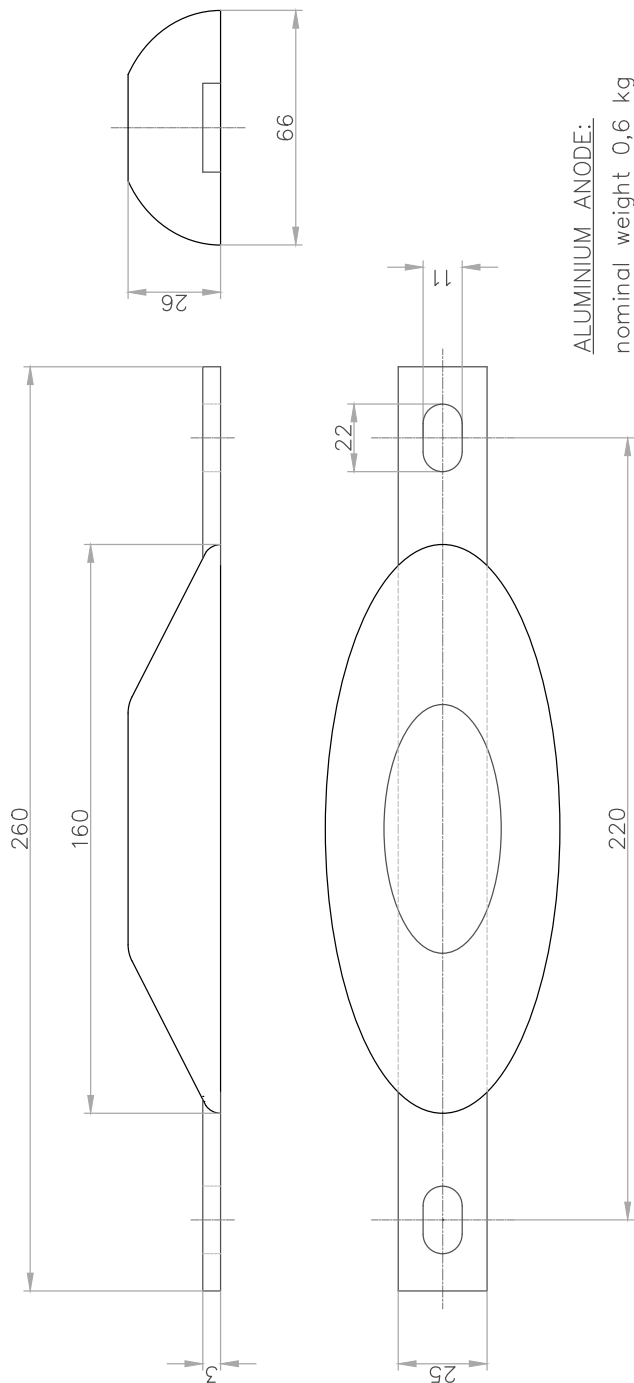
scale: n.t.s.	Art. No.: 922560000	Weight: + / - 3%
drawn:	Dwg. No.: S 801.3	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.



ALUMINIUM ANODE:

nominal anode weight 0,5 kg

Aluminum alloy specification Components Silicon Zinc Titanium Indium Aluminum		Percentage (%) 0.10 - 0.15 2.0 - 5.0 0.01 - 0.05 0.01 - 0.05 0.01 - 0.05 Remainder (99.85% purity)	AMPAK® CATHODIC PROTECTION		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	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
Copper Iron Others each		0.10 - 0.15 0.10 - 0.15 0.02 Max.	scale:n.t.s.	Art. No.:922561000	Weight: +/− 3%	ANODE TYPE EA-0.5
Electrochemical capacity: Solution potential:		2700 Ahr/Kg nominal -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)	drawn:	Dwg. No.: S 8018	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.	



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
 0.01 - 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

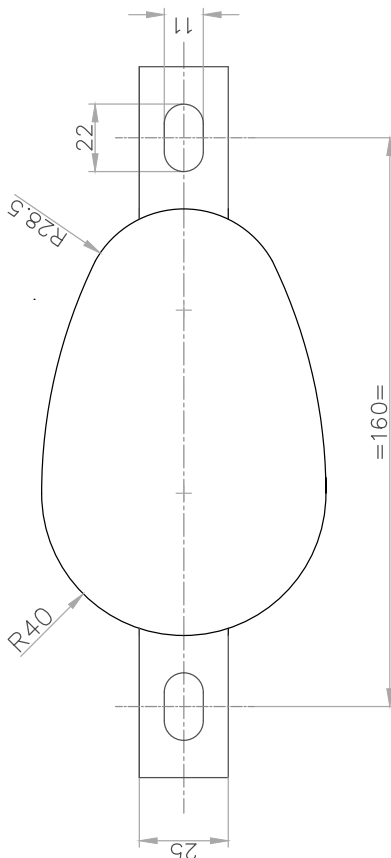
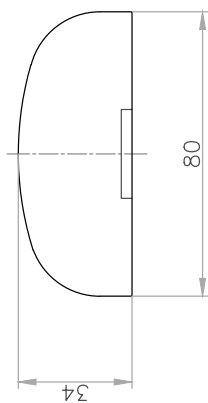
scale: n.t.s.	Art. No.: 922559000	Weight: + / - 3%
drawn:	Dwg. No.: S 8072	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	ANODE TYPE EA-0.6

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=200=

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ALUMINIUM ANODE:

nominal anode weight 0,7 kg

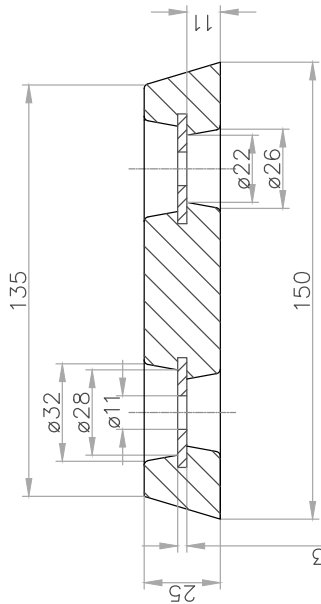
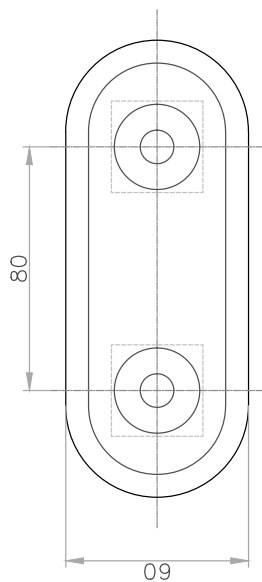
Aluminium alloy specification	Percentages (%)
Components	Impurities
Silicon	0.10 - 0.15
Zinc	2.0 - 5.0
Titanium	0.01 - 0.05
Indium	0.01 - 0.05
Aluminium	Balance (99.85% Purify)
Copper	0.02 Max
Iron	0.10 - 0.15
Others each	0.02 Max
Electrochemical capacity:	2700 Ah/Kg nominal
Solution potential:	-1100 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.:922566000	Weight: +/− 3%	ANODE TYPE EA-0.7
drawn:	Dwg. No.:S 8019	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.	



ALUMINIUM ANODE:

nominal anode weight 0,45 kg

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Indium
 Aluminium
 Copper
 Iron
 Others each
 Electrochemical capacity:
 Solution potential:

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

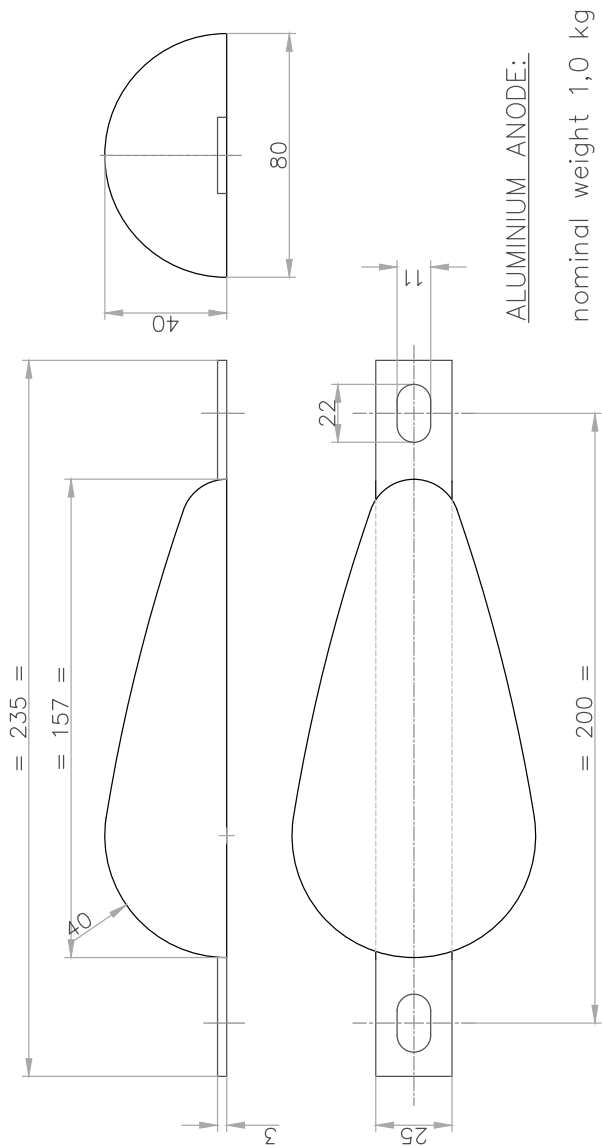
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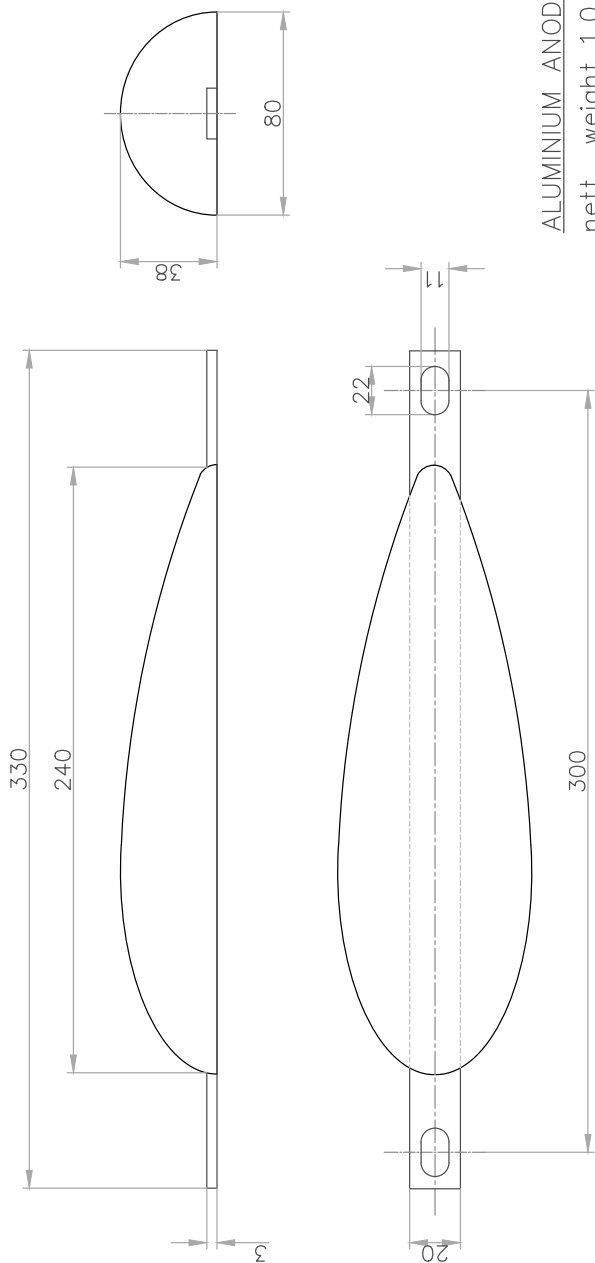
Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scale: n.t.s.	Art. No. 392556000	Weight: + / - 3%
drawn:	Dwg. No.: S 7762	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 EA-0.45-B



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Aluminium alloy specification	Percentages (%)	Art. No.:922563000	Weight: + / - 3%	ANODE TYPE EA-1.0	
Components Sodium Zinc Titanium Indium Aluminium	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	Dwg. No.:S 7765 Dim.:A-4	Gen. Tol.: NACE SP0387		
Electrochemical capacity:	2700 Ah/Kg nominal	drawn:		No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.	
Solution potential:	-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)	date:			



ALUMINIUM ANODE:
nett weight 1,0 kg
gross weight 1,2 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
Solution potential:	-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

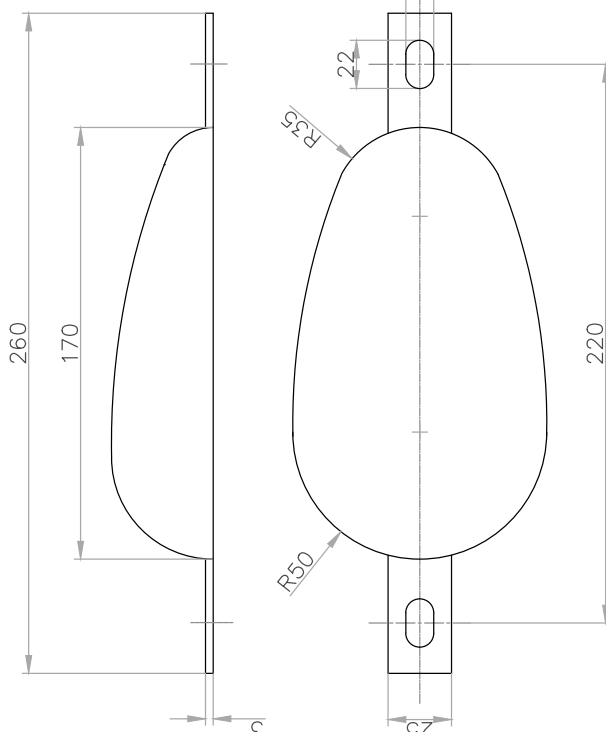
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 923487000	Weight: +/− 3%
drawn:	Dwg. No.: S 8062	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 EA-1.2



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
Indium	0.01 - 0.05
Aluminium	Balance
Copper	
Others each	
Electrochemical capacity:	
Solution potential:	

Percentage (%)	2700 Ah/Kg nominal
0.10 - 0.15	-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)
2.0 - 5.0	
0.01 - 0.05	
0.01 - 0.05	
Balance	
Copper	
Others each	

scale:n.t.s.	Art. No.:922562000	Weight: + /- 3%
drawn:	Dwg. No.:S 8061	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	

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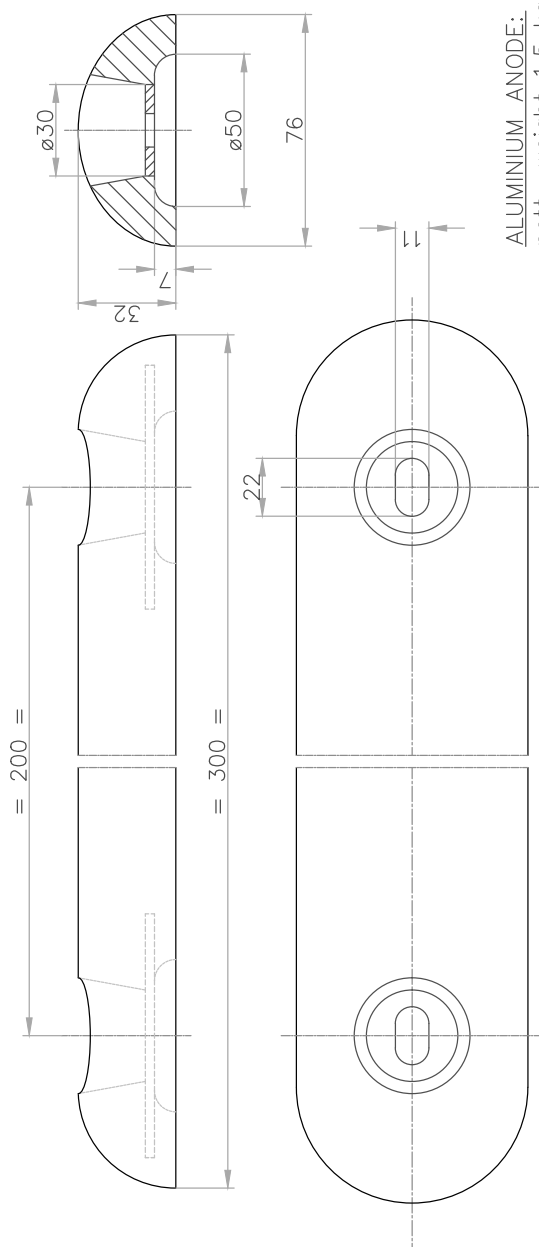
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Other specifications are available on request

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

ANODE TYPE EA-1.3

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

Aluminium alloy specification
Components
Silicon
Zinc
Titanium
Indium
Aluminium
Copper
Iron
Others each
Electrochemical capacity:
Solution potential:

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

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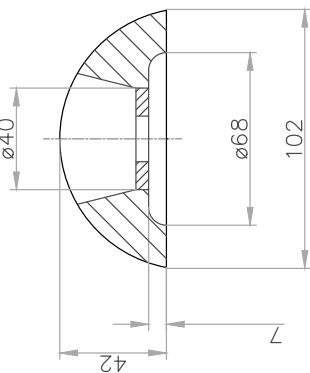
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922550000	Weight: + / - 3%	Gen. Tol.: NACE SP0387
drawn:	Dwg. No.: S 7595		
date:	Dim.: A - 4		

ANODE TYPE EA-1.7-B

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= 229 =



434

27

18

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

Aluminium alloy specification
Components
Aluminum
Zinc
Titanium
Indium
Aluminum
Copper
Iron
Others each
Electrochemical capacity:
Solution potential:

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

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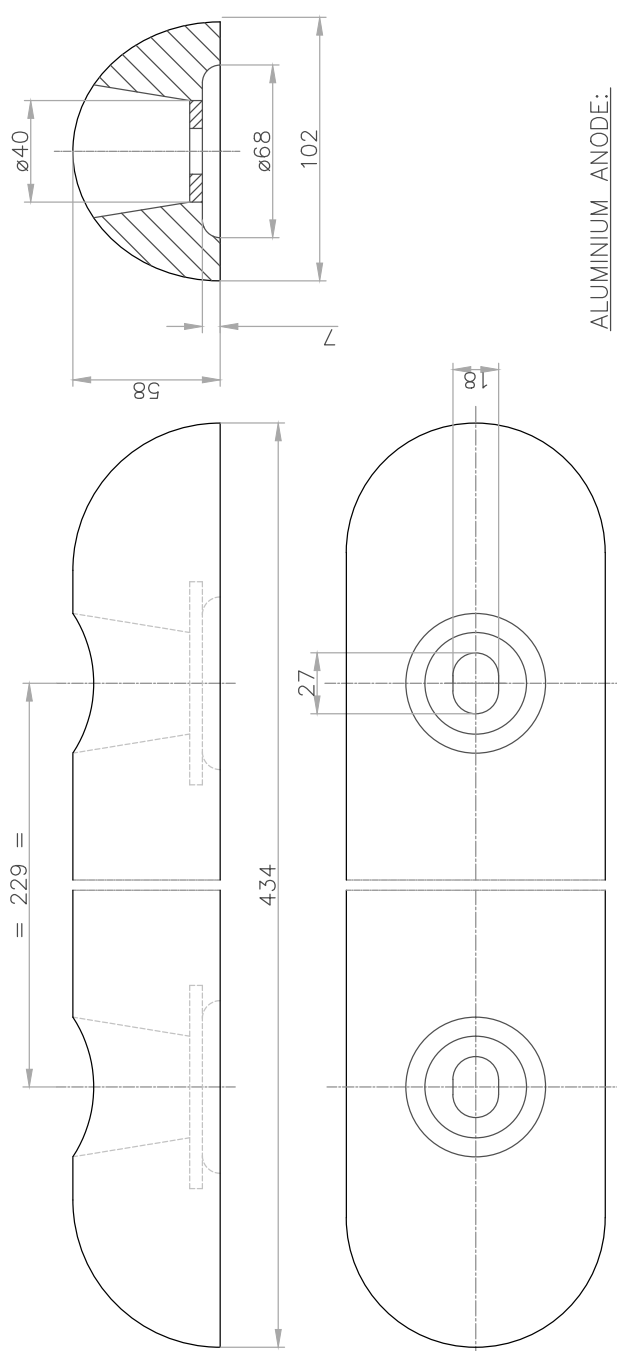
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Other specifications are available on request

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.:922557000	Weight: +/− 3%
drawn:	Dwg. No.:S 7749	Gen. Tol.: NACE SP0387
date:	Dim.: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	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
Solution potential:	-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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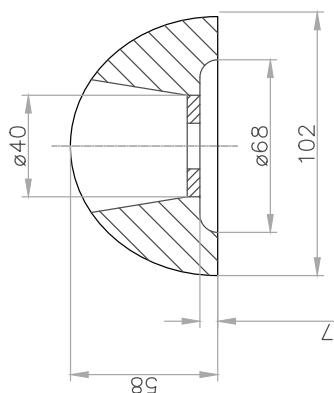
Other specifications are available on request

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

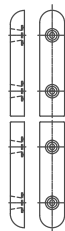
scale:n.t.s.	Art. No.922549000	Weight: + /- 3%
drawn:	Dwg. No.:S 7597	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	

ANODE TYPE EA-5.0-B

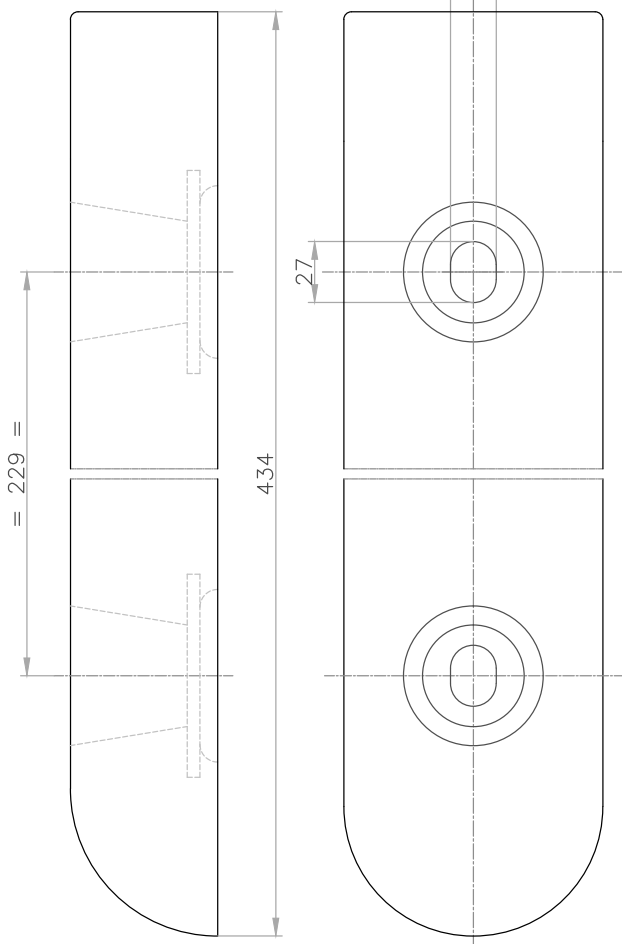
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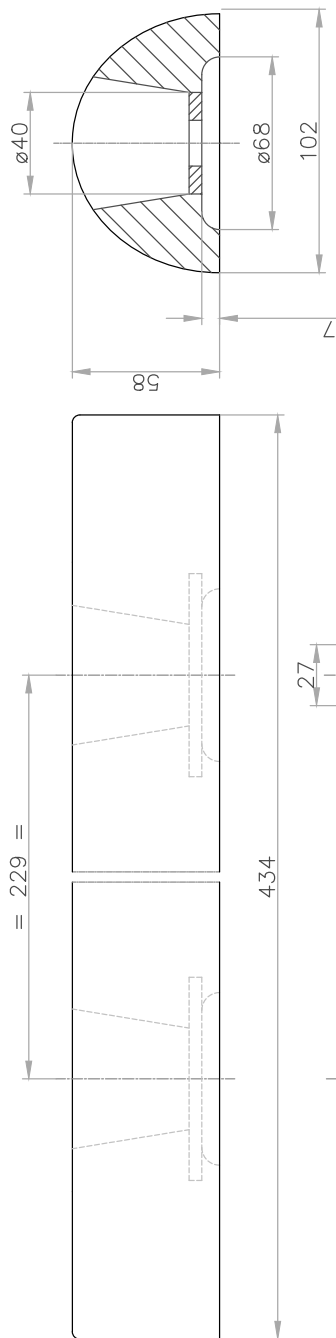


Anode set consists of 2 anodes mounted as follows:



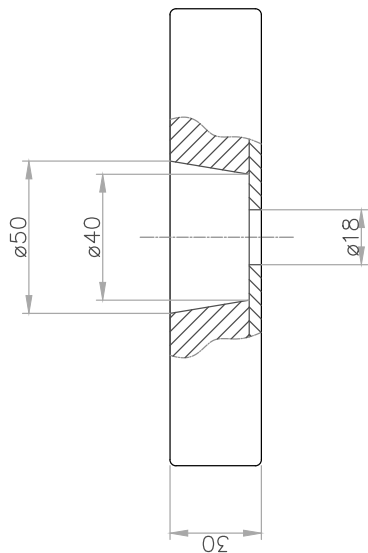
ALUMINIUM ANODE:
 nett weight 5,0 kg
 gross weight 5,5 kg

[illegible]



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

Aluminum alloy specification Components Impurities	Percentage (%) Al 99.95 Si 0.05 Fe 0.01 Cu 0.01 - 0.05 Mn 0.01 - 0.05 Ti 0.01 - 0.05 Zn 0.01 - 0.05 Pb 0.01 - 0.05 Others each 0.02 Max
Copper	Remainder (99.95% Pure)
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 be provided with a coated backside	
scale:n. t.s.	Art. No.:922553000Weight: + / - 3%
drawn:	Dwg. No.:S7745
date:	Dim.:A - 4
ANODE TYPE EA-6.0-B	
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net weight:	1,7 kg
gross weight:	1,9 kg

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

Electrochemical capacity:
Solution potential:

Percentage (%)

2700 Ahr/Kg nominal
-1100 mV vs. Ag/AgCl reference

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scale: n.t.s.	Art. No.:922526000	Weight: + / - 3%
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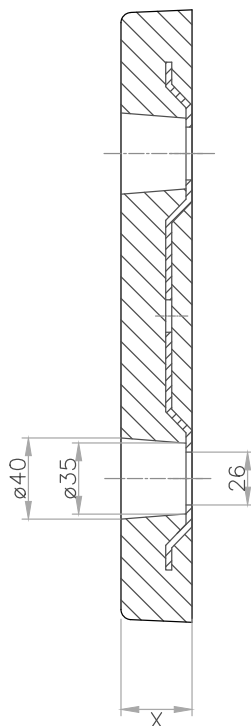
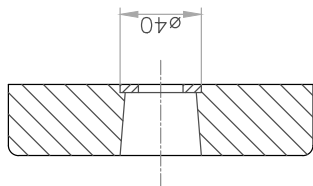
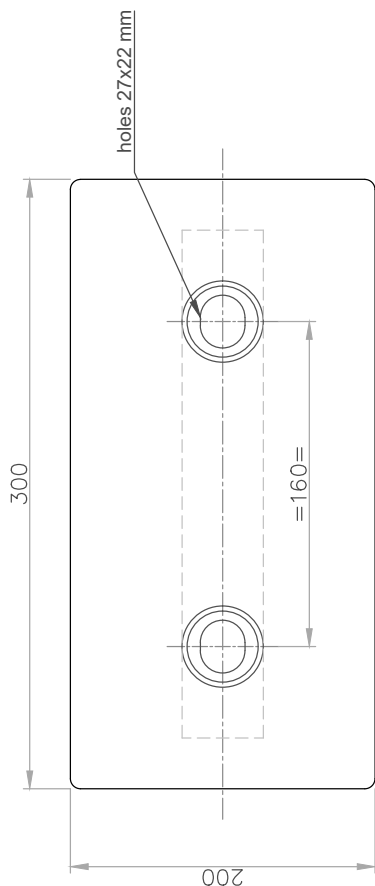
drawn:	Dwg. No.: S 8220	Gen. Tol.: NACE SP0387
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Other specifications are available on request

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

ANODE TYPE 17-AL-B

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Aluminum alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Indium
 Aluminum

Impurities
 0.10 - 0.15
 2.0 - 5.0
 0.01 - 0.05
 0.01 - 0.05
 0.01 - 0.05
 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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scale: n.t.s.

Art. No.:

Weight: +/− 3%

drawn:

Dwg. No.:

Gen. Tol.: NACE SP0387

date:

Dim.: A-4

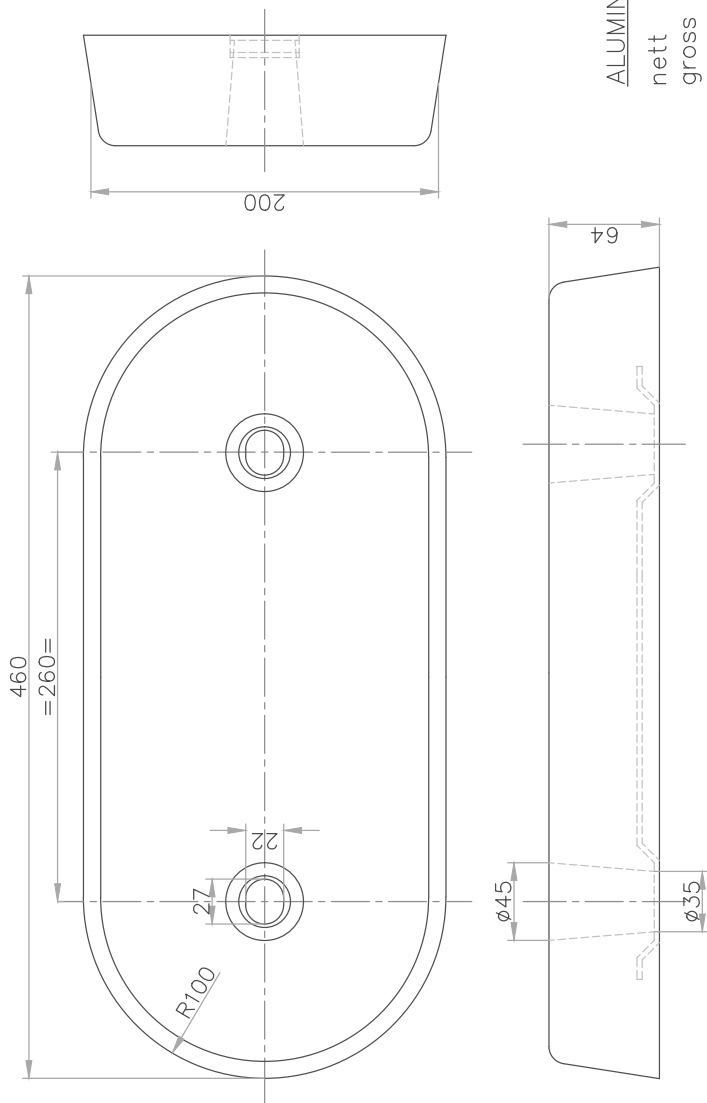
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X	Anode	Weight
60	65-AL-B	6,5 kg
65	85-AL-B	8,5 kg
70	110-AL-B	11 kg

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



ALUMINIUM ANODE:
 nett weight 12,0 Kg
 gross weight 12,3 Kg

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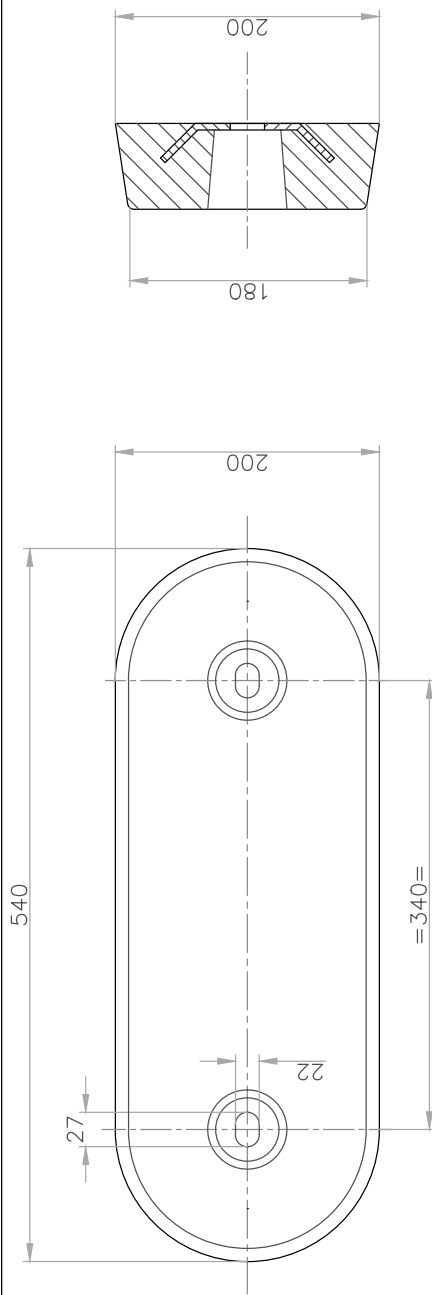
Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

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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	99.85% Purify
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)

ANODE TYPE 120-AL-B

scale:n.t.s.	Art. No.:92369000	Weight: + / - 3%
drawn:	Dwg. No.:S 10088	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.



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

scale: n.t.s.	Art. No.: 322531000	Weight: +/- 3%
drawn:	Dwg. No.: S 8481	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	ANODE TYPE 154-AL-B

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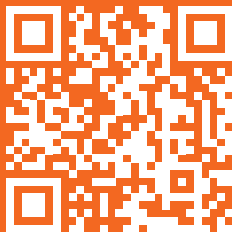
ZINC BOLT-ON HULL ANODES

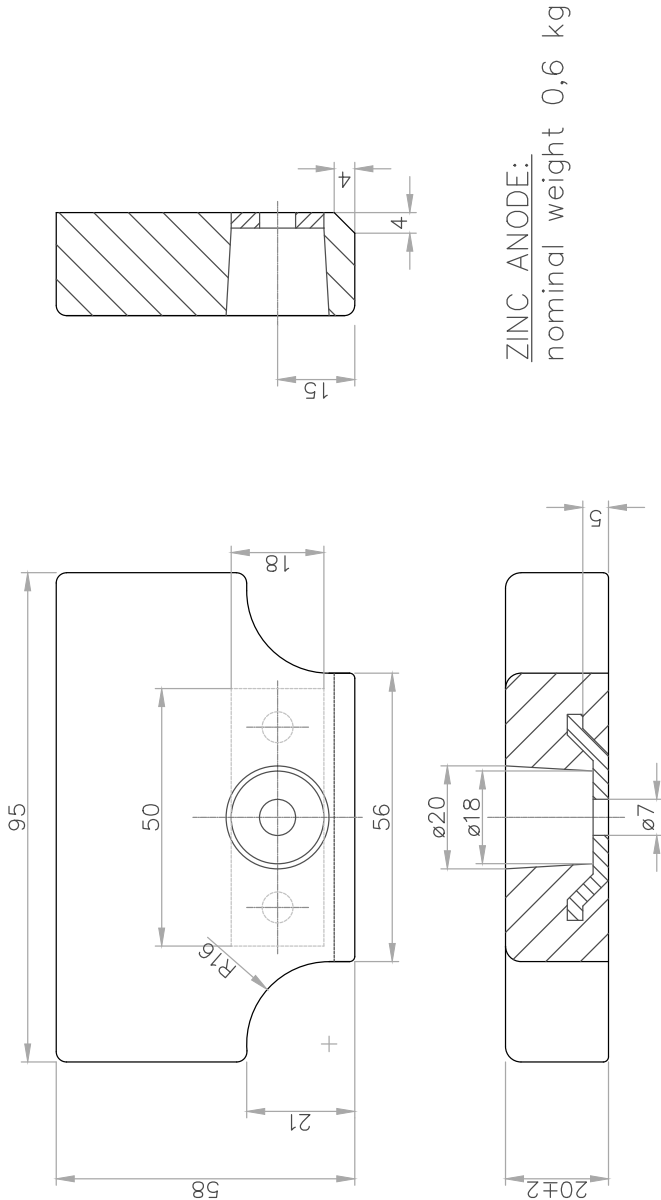
The next pages gives only a selection of types we have available.

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

Zinc alloy specifications acc. to US MIL Spec-A-18001K	
Copper	0.05 max
Aluminum	0.025-0.07
Impurities	0.10-0.5
Remainder	0.005 max
Lead	0.006 max
Others total	0.10 max
Electrochemical capacity...	780 Ah/Kg nominal
Solution potential...	-1050 vs. Ag/AgCl reference cell (in seawater)

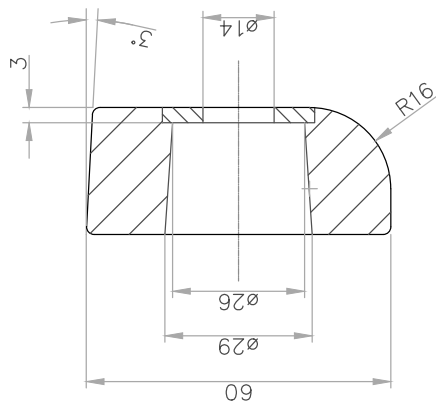
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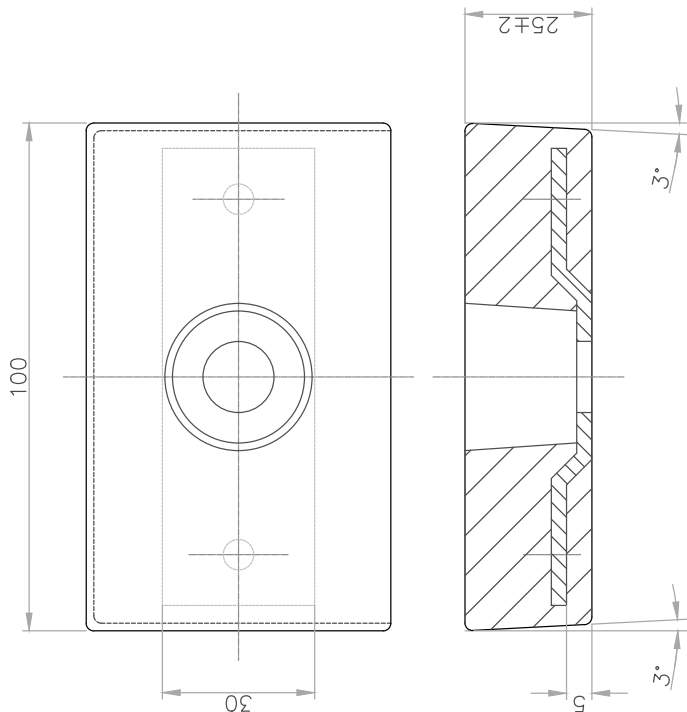
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.:	Weight: +/- 3%
drawn:	Dwg. No.: S 5628	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE SP-1 ZN



ZINC ANODE:
nominal weight 0,8 kg



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Other specifications are available on request

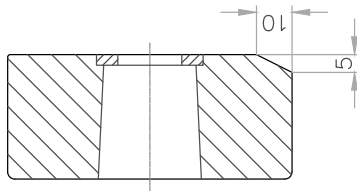
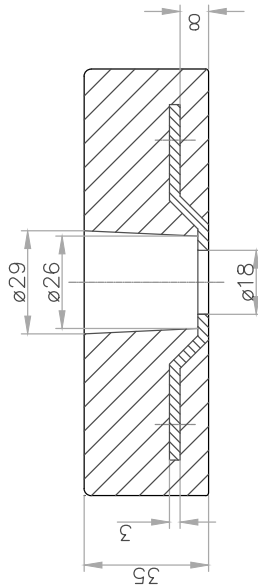
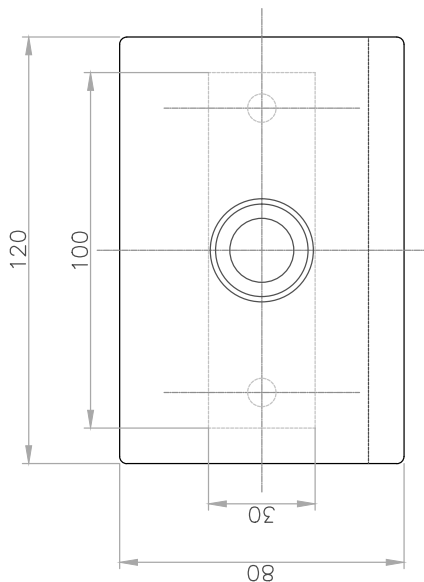
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE 8-Z

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

Zinc alloy specifications acc. US MIL Spec-A-1800-K
Components Impurities Percentage (%)
Cadmium 0.025-0.07
Aluminum 0.10-0.15
Zinc 0.005 max
Copper 0.005 max
Iron 0.006 max
Lead 0.10 max
Others total 0.10 max
Electrochemical capacity nominal
Solution potential -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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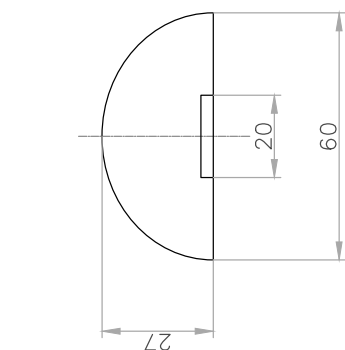


ZINC ANODE:
nominal weight 1,8 kg

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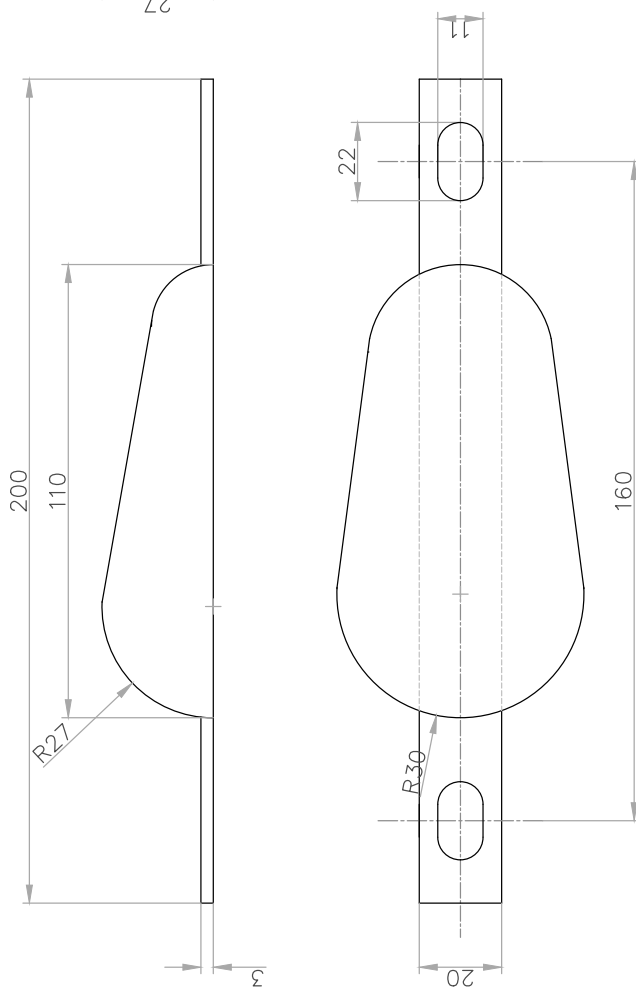
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

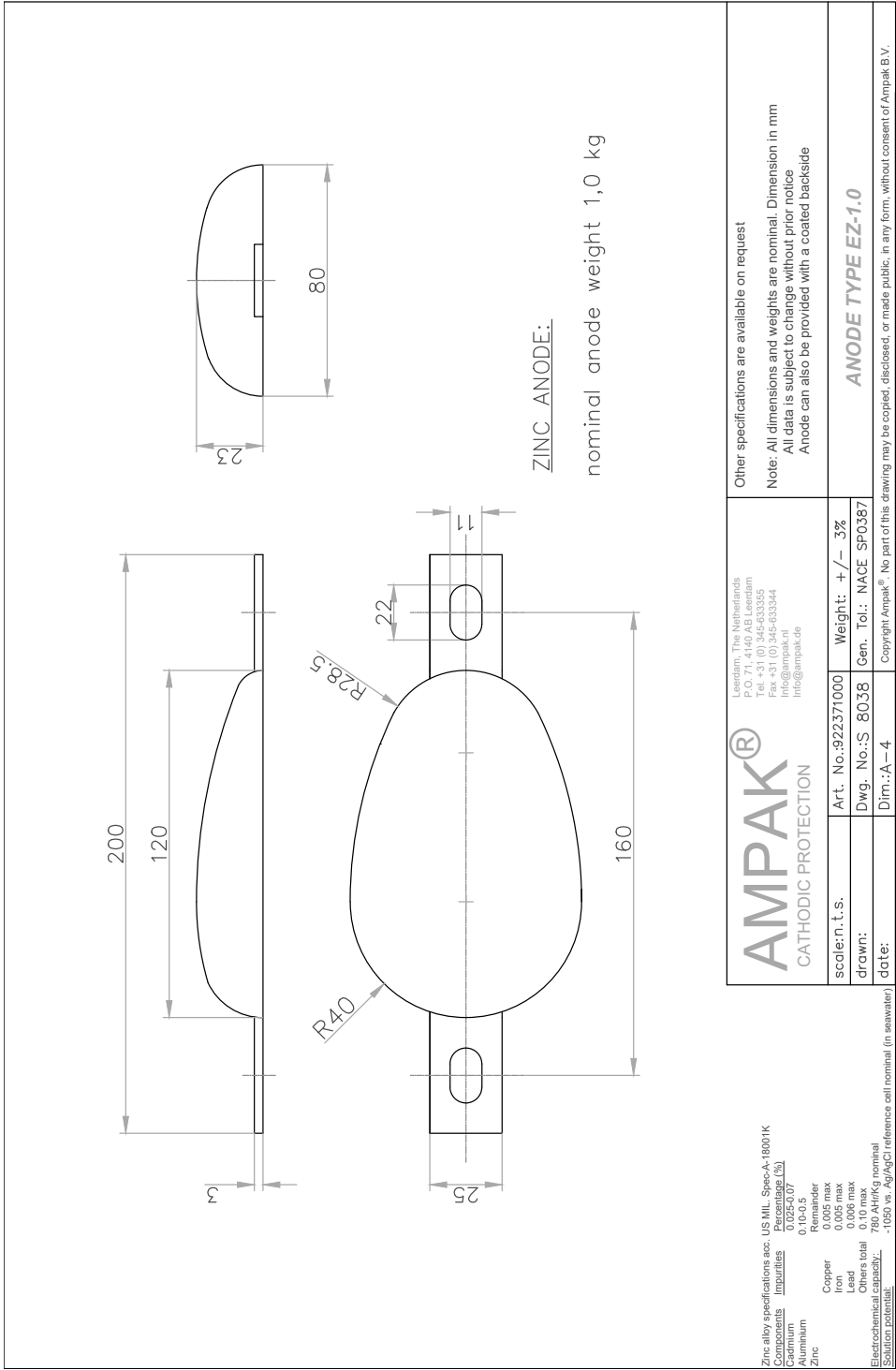
Zinc alloy specifications acc. US MIL Spec-A-18001K		AMPAPAK®		Leerdam, The Netherlands P.O. 71, 4140 AB Leerdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl www.ampak.nl		Other specifications are available on request	
Components	Impurities	Percentage (%)	Cadmium	0.025-0.07	Aluminum	0.10-0.5	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
Zinc			Remainder				
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.				Art. No.: 922183000		Weight: + / - 3%	
drawn:				Dwg. No.: S 5625		Gen. Tol.: NACE SP0387	
date:				Dim.: A-4		Copyright Ampapak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampapak B.V.	



ZINC ANODE

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

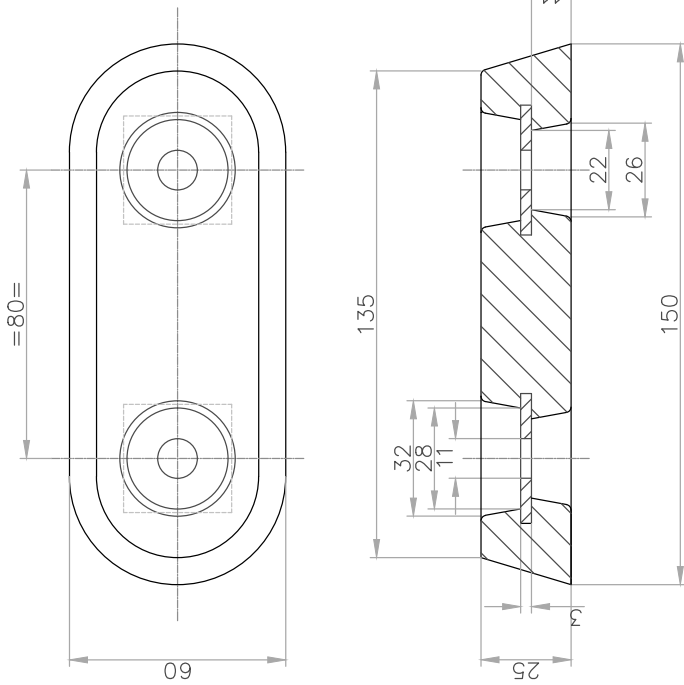
[illegible]



Zinc alloy specifications acc. to US MIL Spec A-18001K	
Cadmium	Impurities
Cadmium	0.025±0.07
Aluminum	0.10-0.5
Zinc	Remainder
Copper	0.005 max
Lead	0.005 max
Others total	0.10 max
Electrochemical capacity	780 Ahr/Kg nominal
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

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Art. No.: 922371000	Weight: +/- 3%
Dwg. No.: S 8038	Gen. 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 EZ-1.0	
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ZINC ANODE:

nominal anode weight 1,0 kg

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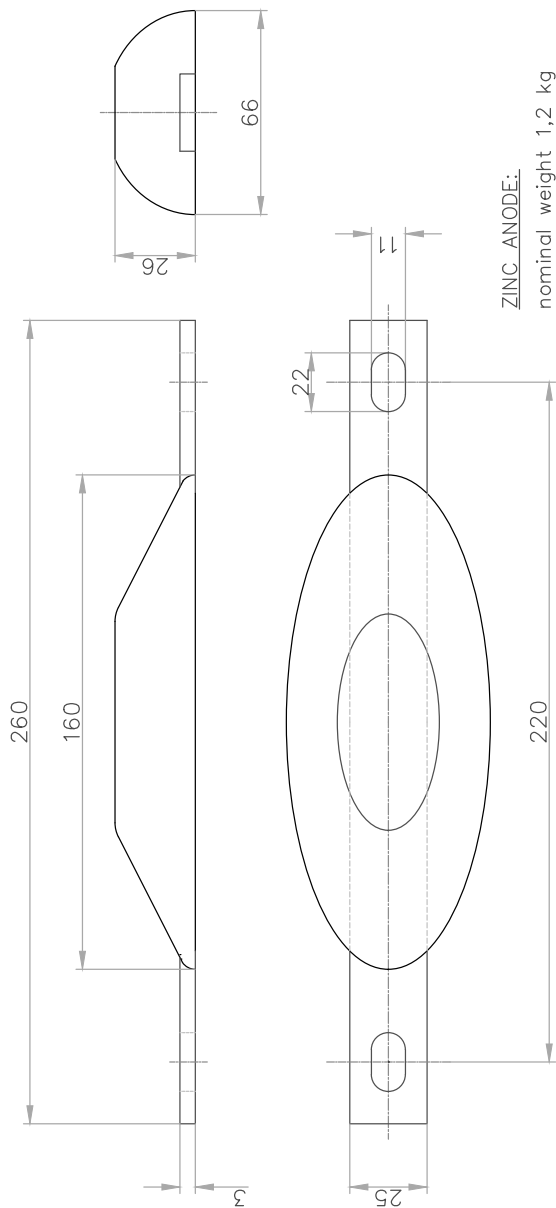
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scalen. t.s.	Art. No.: 322373000	Weight: + / - 3%
drawn:	Dwg. No.: S 7763	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE EZ-1-B

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Zinc alloy specifications acc. to US MIL Spec A-18001K	
Copper	0.005 max
Aluminum	0.025-0.07
Cadmium	0.10-0.5
Zinc	Remainder
Others total	0.10 max
Electrochemical capacity	780 Ah/Kg nominal
Solution potential	-1050 vs. Ag/AgCl reference cell (in seawater)



ZINC ANODE:
nominal weight 1,2 kg

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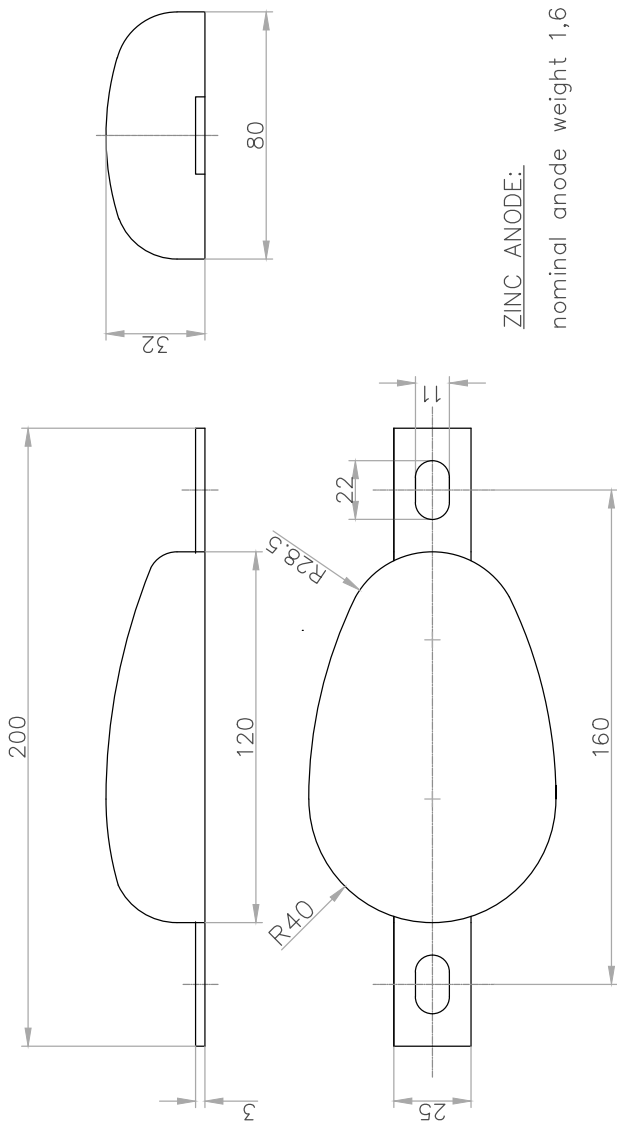
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

Zinc alloy specifications acc. to US MIL Spec A-18001K	
Copper	0.025-0.07 %
Aluminum	0.10-0.5
Zinc	Remainder
	0.005 max
	0.005 max
	0.005 max
Others total	0.10 max
Electrochemical capacity	780 Ahr/Kg nominal
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

scalen. 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:
nominal anode weight 1,6 kg

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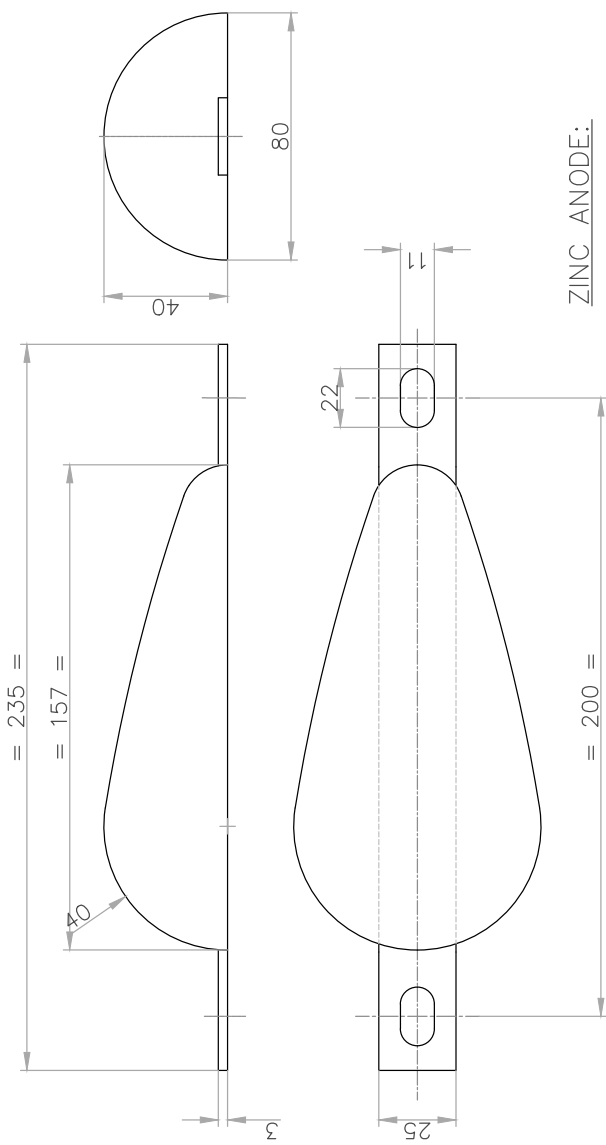
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 923269000	Weight: +/- 3%
drawn:	Dwg. No.: S 8037	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	

ANODE TYPE EZ-1.6

Zinc alloy specifications acc. to US MIL Spec A-18001K	
Copper	0.025-0.07 %
Aluminum	0.10-0.5
Cadmium	0.005 max
Zinc	0.005 max
Remainder	0.10 max
Copper	0.006 max
Lead	0.010 max
Others total	780 Ahr/Kg nominal
Electrochemical capacity:	-1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential:	

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ZINC ANODE:
nominal weight 2,1 kg

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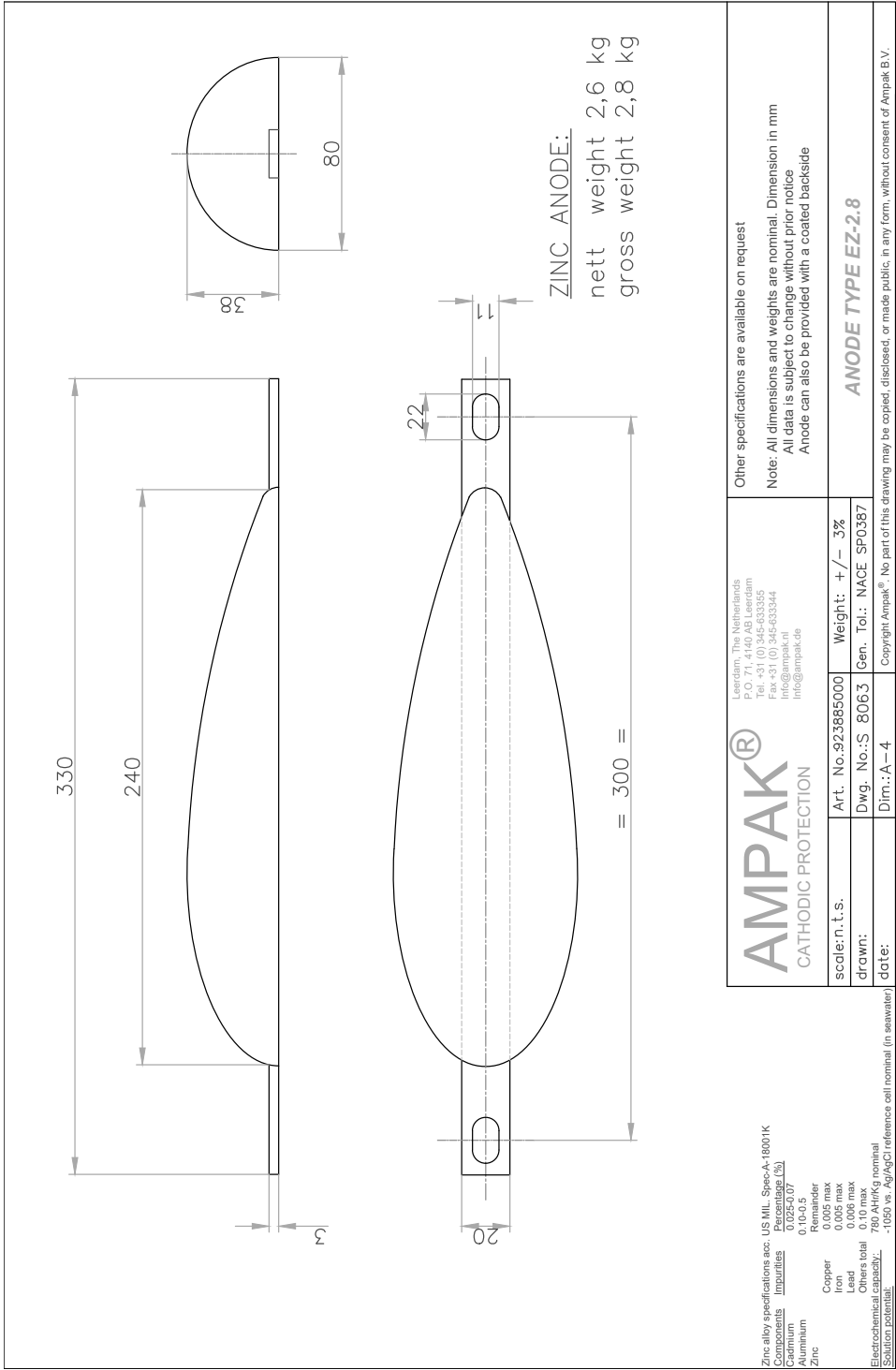
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE EZ-2.1

Zinc alloy specifications acc. to US MIL Spec A-18001K	
Copper	0.005 max
Aluminum	0.025-0.07
Cadmium	0.10-0.5
Zinc	0.005 max
Others total	0.10 max
Electrochemical capacity	780 Ah/Kg nominal
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

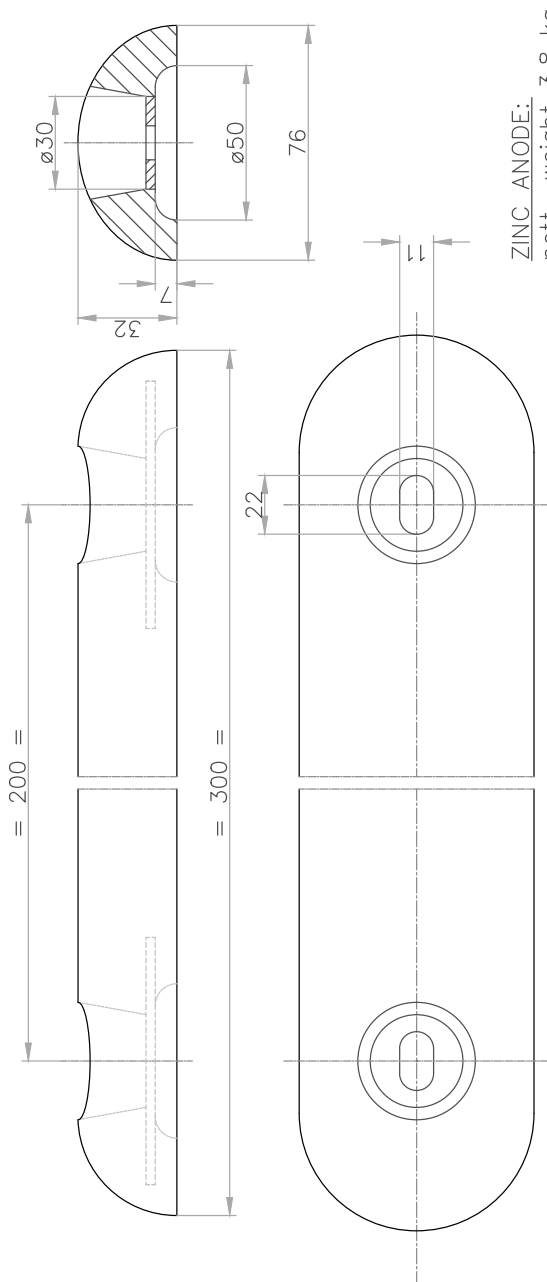
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drawn:	Dwg. No.: S 7764	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	Copyright Ampak® No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.



Zinc alloy specifications acc. to US MIL Spec A-18001K	
Copper	0.05 max
Cadmium	0.025-0.07
Aluminum	0.10-0.5
Zinc	Remainder
Others total	0.005 max
Electrochemical capacity	780 Ahr/Kg nominal
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

AMPAK® CATHODIC PROTECTION	
scale: n. t. s.	Art. No.: 923885000
drawn:	Dwg. No.: S 8063
date:	Dim.: A-4
Weight: +/- 3%	
Gen. Tol.: NACE SP0387	

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-2.8	
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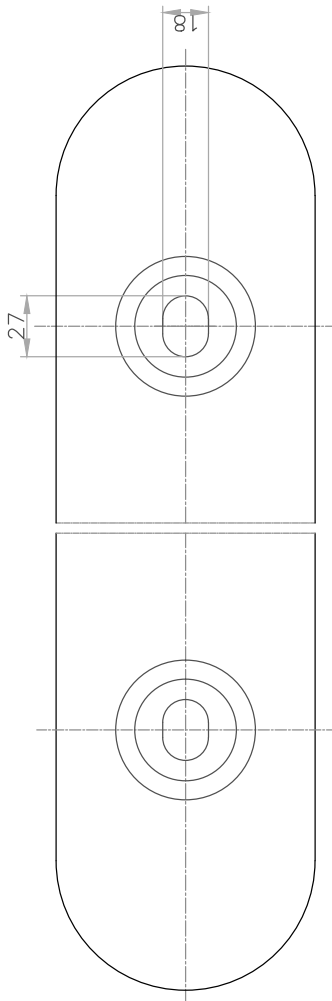
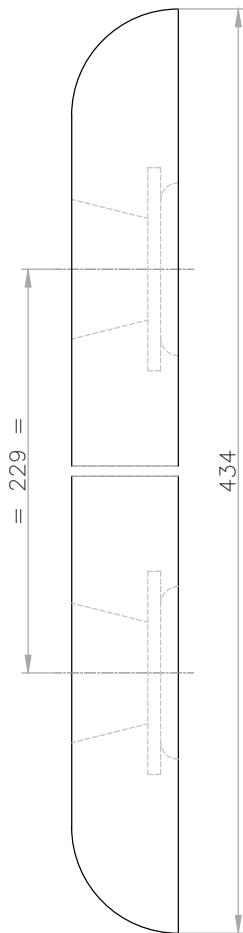
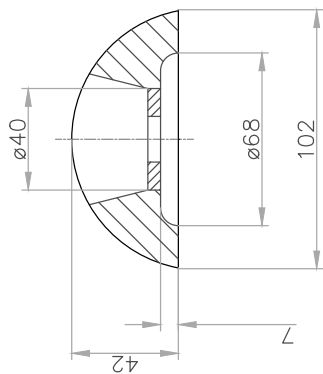
ZINC ANODE:
 nett weight 3,8 kg
 gross weight 4,0 kg

Zinc alloy specifications acc. to US MIL Spec A-18001K	
Copper	0.05 max
Aluminum	0.025-0.07
Cadmium	0.10-0.5
Zinc	Remainder
Others total	0.05 max
Electrochemical capacity	780 Ah/Kg nominal
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

AMPAK® CATHODIC PROTECTION	
Art. No.: 922365000	Weight: +/- 3%
Dwg. No.: S 7572	Gen. Tol.: NACE SP0387
Dim.: 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	
ANODE TYPE EZ-4-B	

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

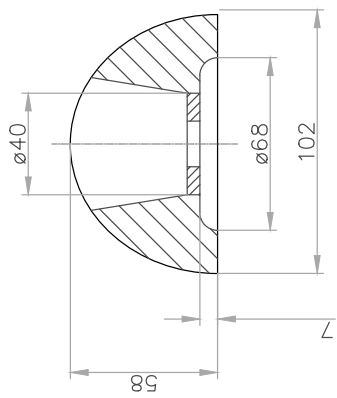
ANODE TYPE EZ-7-B

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Zinc alloy specifications acc. US MIL Spec-A-18001K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.15
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.	Art. No.: 922364000	Weight: + / - 3%
drawn:	Dwg. No.: S 7686	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

= 229 =



434

27

18

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

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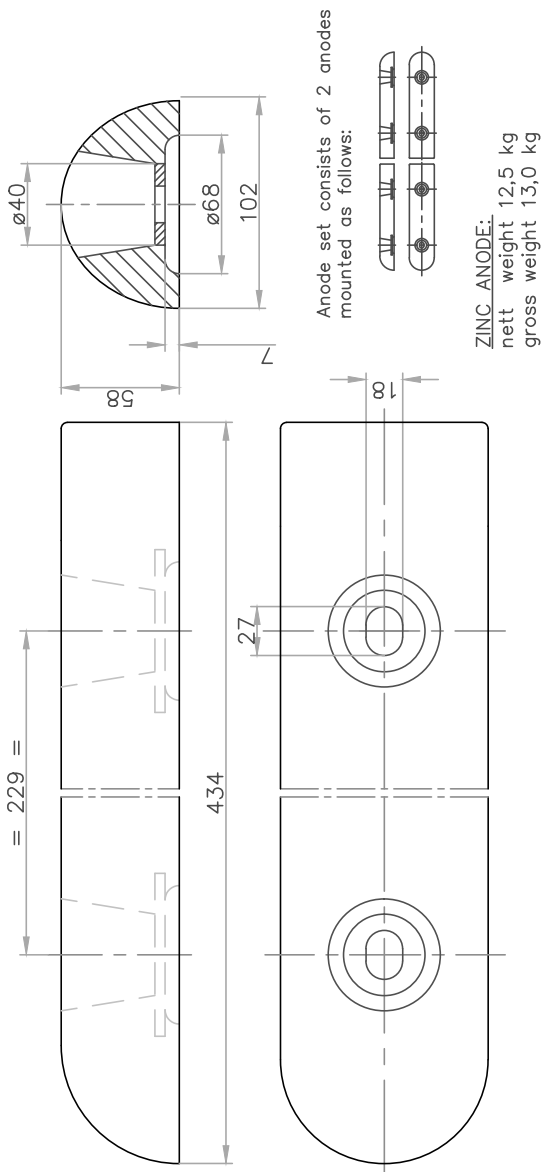
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

ANODE TYPE EZ-12-B

scale: n. t. s.	Art. No.: 922361000	Weight: + / - 3%
drawn:	Dwg. No.: S 7564	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	

Zinc alloy specifications acc. US MIL Spec-A-18001K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.15
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

Zinc alloy specifications acc. to 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		0.010 max

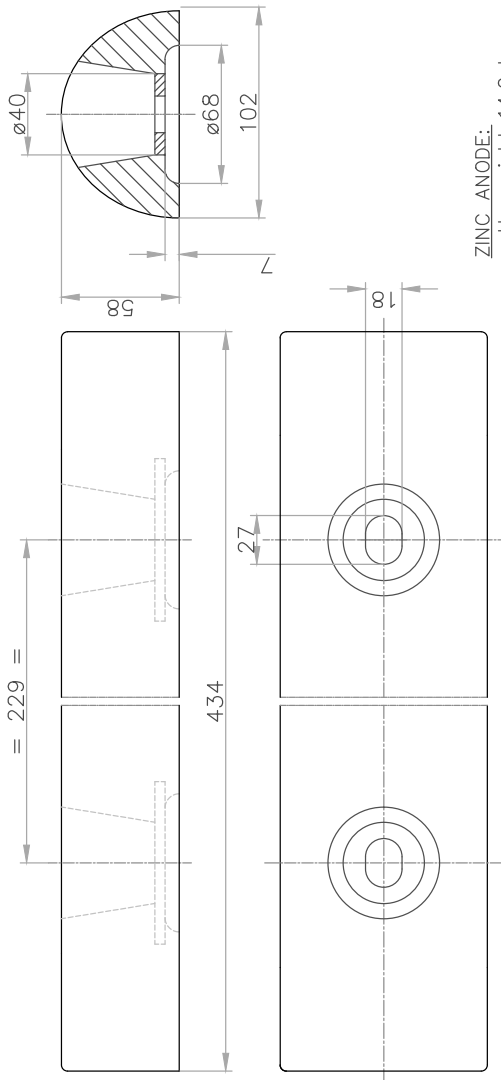
Electrochemical capacity: 700 g nominal
Solution potential: -1050 vs. Ag/AgCl (reference cell nominal (in seawater))

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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

ANODE TYPE EZ-14.5-B

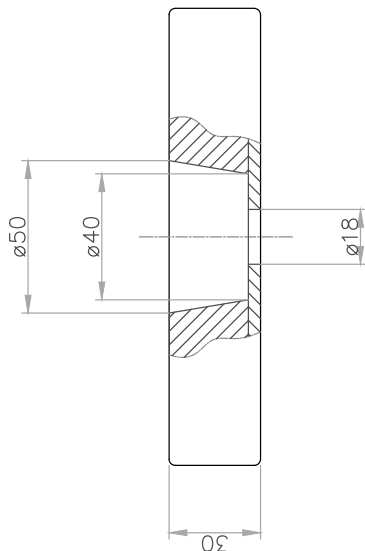
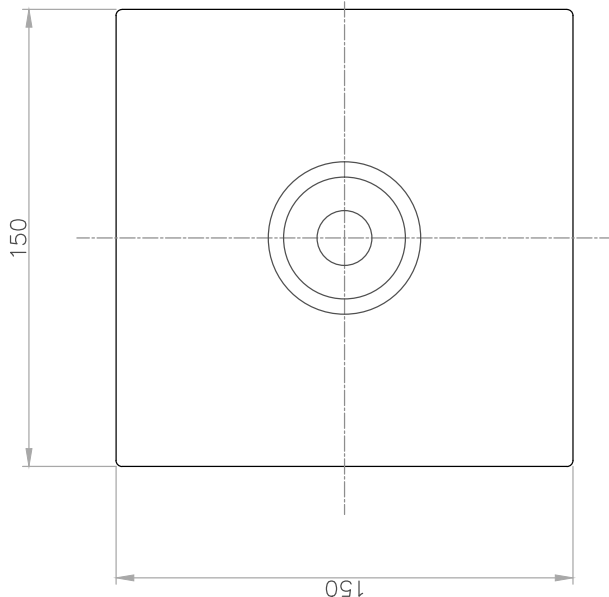
scale:n. t. s.	Art. No.:922375000	Weight: + / - 3%
drawn:	Dwg. No.:S 7751	Gen. Tol.: NACE SP0387
date:	Dim.:A-4	

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 0.10 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: 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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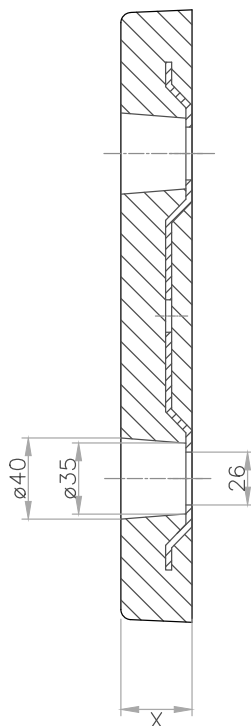
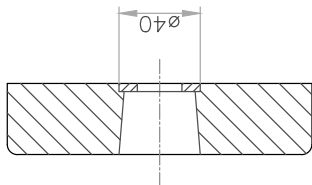
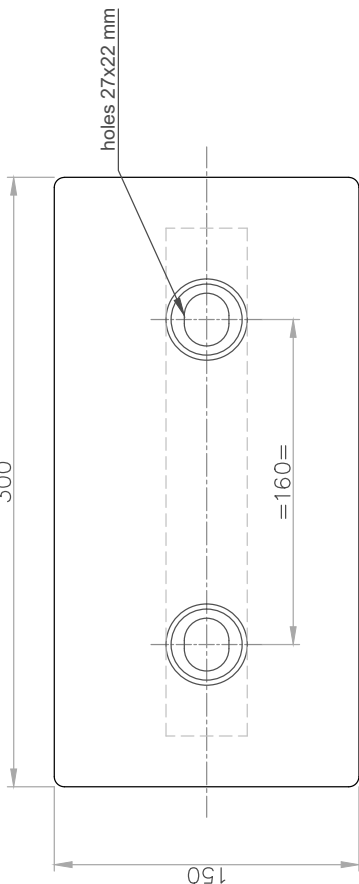
scale: t.s.	Art. No.: 92227000	Weight: + / - 3%
drawn:	Dwg. No.: S 5717	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

Zinc alloy specifications acc. US MIL Spec-A-18001K	
Components	Impurities
Cadmium	Percentage (%)
Aluminum	0.025-0.07
Zinc	0.10-0.15
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 43-Z-B

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300



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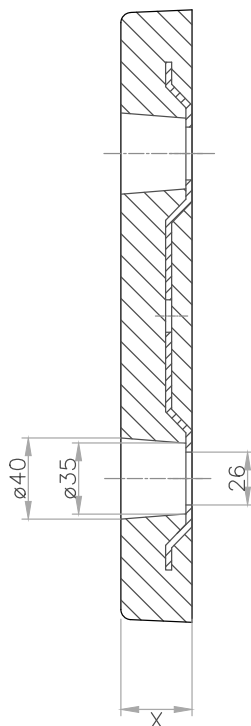
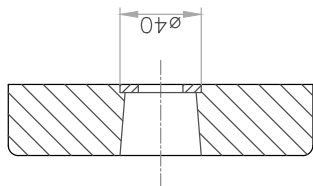
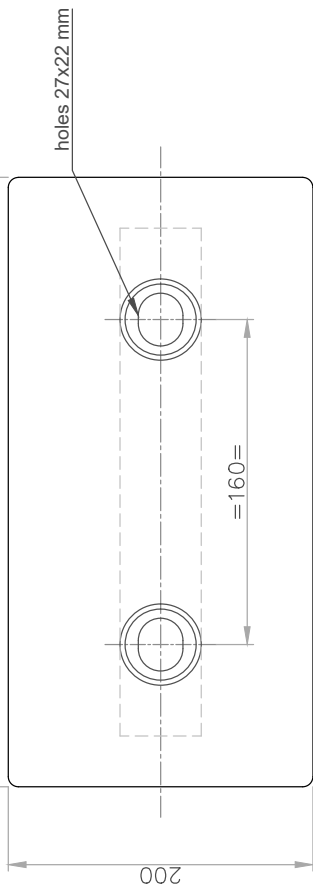
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scale: t.s.	Art. No.:	Weight: + / - 3%
drawn:	Dwg. No.:	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

Zinc alloy specifications acc. US MIL Spec-A-18001K
Components Impurities Percentages (%)
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
Electrochemical capacity - 1050 vs. Ag/AgCl reference cell nominal (in seawater)
Solution potential

ANODETYPE Z-B

300



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

ANODETYPE Z-B

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

Components Impurities

Cadmium Percentage (%)

Aluminum 0.025-0.07

Zinc 0.10-0.15

Copper 0.005 max

Iron 0.005 max

Lead 0.006 max

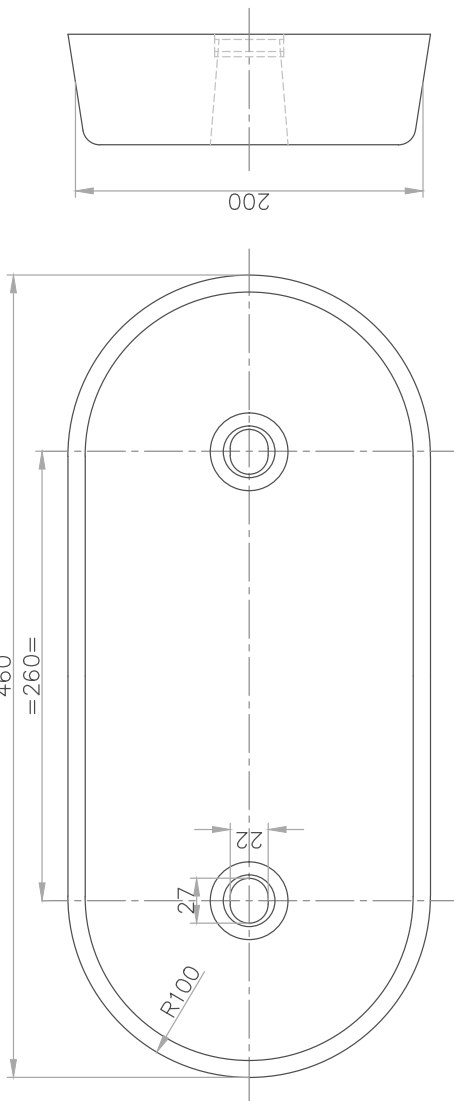
Others total 0.10 max

Electrochemical capacity

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

Solution potential

460
= 260 =



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

ANODE TYPE 305-Z-B

scale: n. t. s. Art. No.: 326866000 Weight: + / - 3% Gen. Tol.: NACE SP0387

drawn: Dwg. No.: S 11076 Dim.: A - 4

date:

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

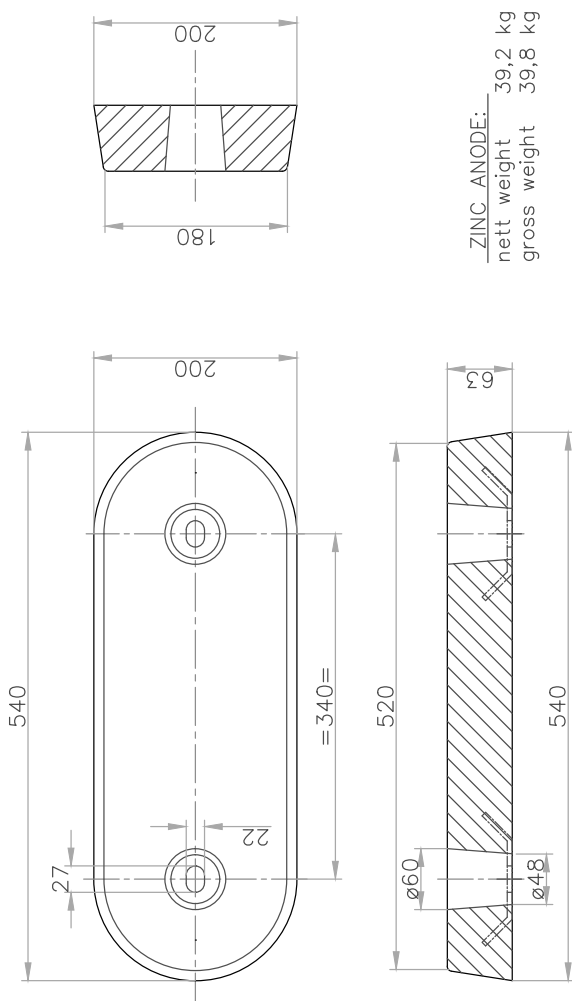
Components	Impurities	Percentage (%)
Cadmium		0.025-0.07
Aluminum		0.10-0.5
Zinc		0.005 max

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 39,2 kg
 gross weight 39,8 kg

Zinc alloy specifications acc. US MIL Spec-A-1800-K
 Components Impurities Percentages (%)
 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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 Note: All dimensions and weights are nominal. Dimension in mm
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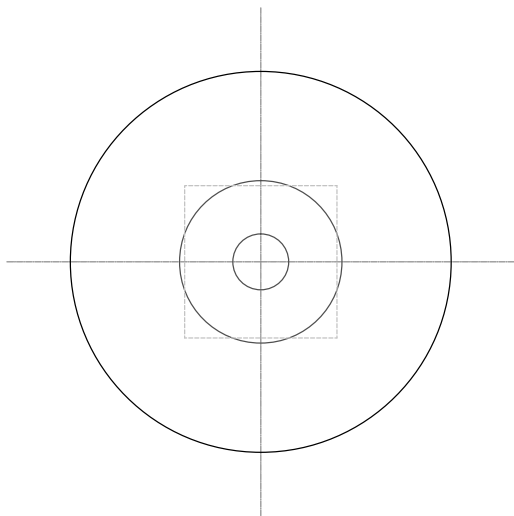
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scale: t.s.		Art. No.: 923546000		Weight: + / - 3%	
drawn:		Dwg. No.: S 8696		Gen. Tol.: NACE SP0387	
date:		Dim.: A-4		Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.	
				ANODE TYPE 392-Z-B	

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

Aluminium alloy specification
Components
Impurities
Silicon
Zinc
Titanium
Indium
Aluminium
Copper
Iron
Others each
Electrochemical capacity:
Solution potential:

Percentage (%)
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 Ahr/Kg nominal
-1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

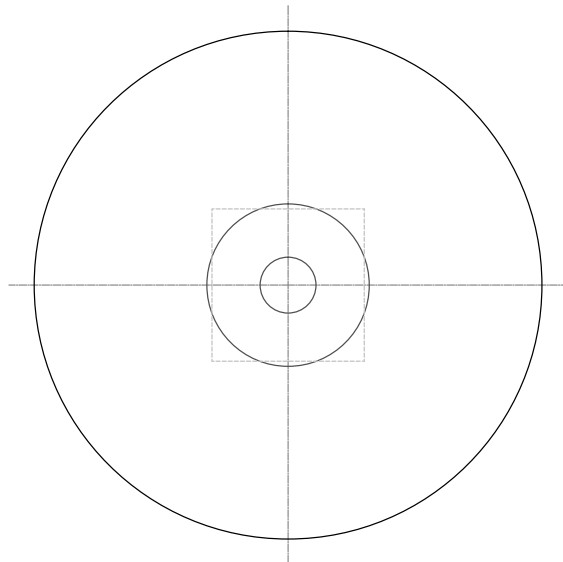
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Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n.t.s.	Art. No.: 922554000	Weight: + / - 3%
drawn:	Dwg. No.: S 8054	Ben. Tol.: NACE SP0387
date:	Dim.: A - 4	ANODE TYPE EA-0.17-DB

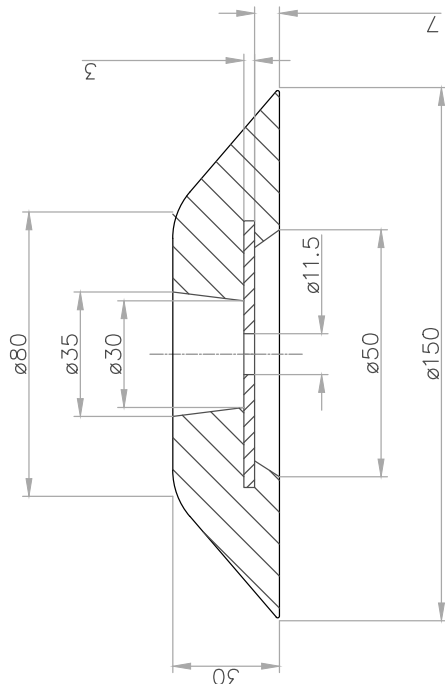
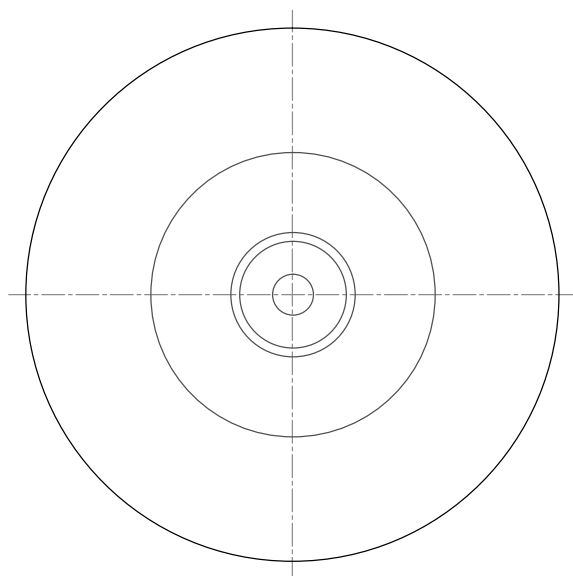
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ALUMINIUM ANODE:

nominal weight 0,5 kg

Aluminium alloy specification Components Copper Iron Others each Electrochemical capacity: Solution potential:		Percentage (%) 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 Ah/Kg nominal -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)		AMPAK® CATHODIC PROTECTION		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		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.: 922555000		Weight: + / - 3%		Gen. Tol.: NACE SP0387		ANODE TYPE EA-0.5-DB	
drawn:		Dwg. No.: S 8060		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.			



ALUMINIUM ANODE:

nominal weight 0,9 kg

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Indium
 Aluminium
 Copper
 Iron
 Others each
 Electrochemical capacity:
 Solution potential:

Percentage (%)
 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 Ahr/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

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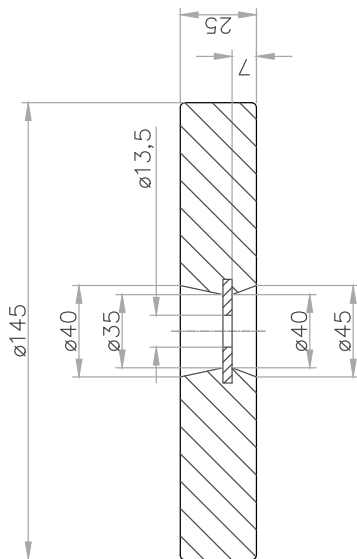
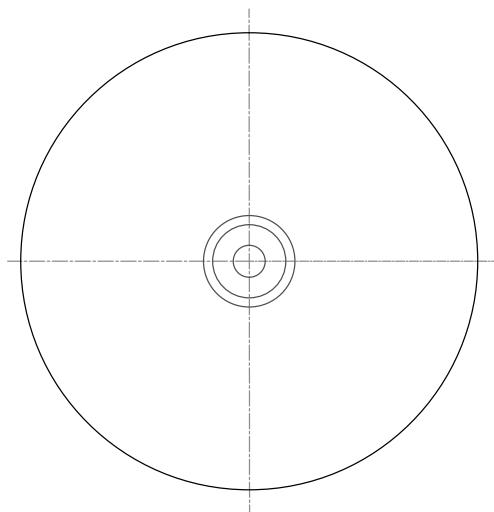
scale:n.t.s.
 drawn:
 date:

Art. No.:922558000 Weight: + / - 3%
 Dwg. No.:S 8057 Gen. 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-0.9-DB

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ALUMINIUM ANODE:
nominal weight 1,0 kg

Aluminium alloy specification
Components
Impurities
Sulphur
Zinc
Titanium
Indium
Aluminium
Copper
Iron
Others each
Electrochemical capacity:
Solution potential:

Percentage (%)
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

Impurities (ppm)
99.95% Pure

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

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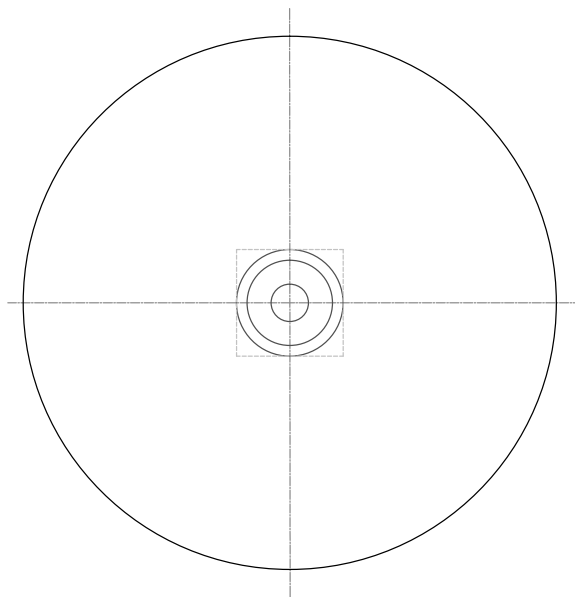
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Other specifications are available on request

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

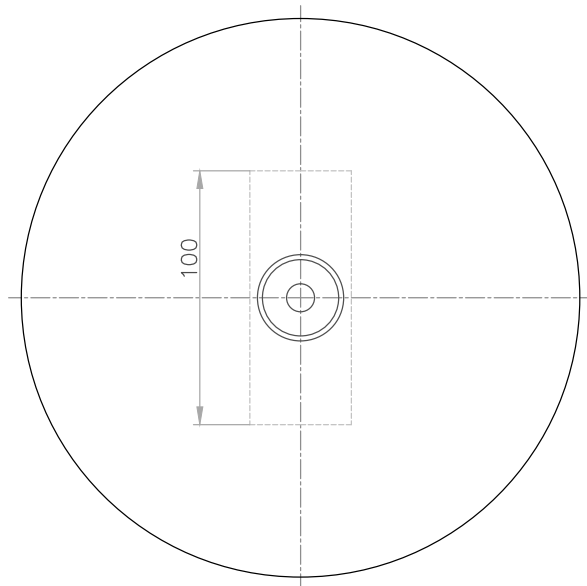
ANODE TYPE EA-1.0-SB

scale: n.t.s.
drawn:
date:
Art. No.: 927114000
Dwg. No.: S 8519
Dim.: A-4
Weight: + / - 3%
Gen. Tol.: NACE SP0387
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ALUMINIUM ANODE:
nominal weight 1,2 kg

Aluminium alloy specification Components Sulphur Zinc Titanium Indium Aluminium		Percentage (%) 0.10 - 0.15 2.0 - 5.0 0.01 - 0.05 0.01 - 0.05 0.01 - 0.05 0.02 Max		Impurities Copper Iron Others each		Electrochemical capacity: Solution potential: 2700 Ah/Kg nominal -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)	
AMPAK® CATHODIC PROTECTION		scale:n.t.s.		Art. No.:923853000		Weight: + / - 3%	
		drawn:		Dwg. No.:S 8087		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.	
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-1.2-SB			



ALUMINIUM ANODE:
 nett weight 2,60 kg
 gross weight 2,69 kg

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Indium
 Aluminium
 Copper
 Iron
 Others each
 Electrochemical capacity:
 Solution potential:

Percentage (%)
 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 Ahr/Kg nominal
 -1100 mV vs. Ag/AgCl reference cell nominal (in seawater)

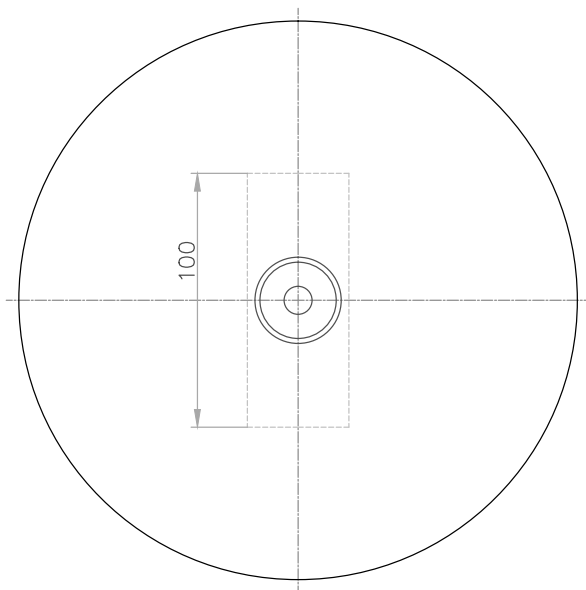
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
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 Anode can also be provided with a coated backside

ANODE TYPE EA-2.8-SB

scale: n.t.s.
 drawn:
 date:
 Art. No.: 922552000
 Dwg. No.: S 8074
 Dim.: A-4
 Weight: + / - 3%
 Gen. Tol.: NACE SP0387
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ALUMINIUM ANODE:
 nett weight 2,8 kg
 gross weight 3,0 kg

Aluminium alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Indium
 Aluminium
 Copper
 Iron
 Others each
 Electrochemical capacity:
 Solution potential:

Percentage (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,01 - 0,05
 99,85% Purify
 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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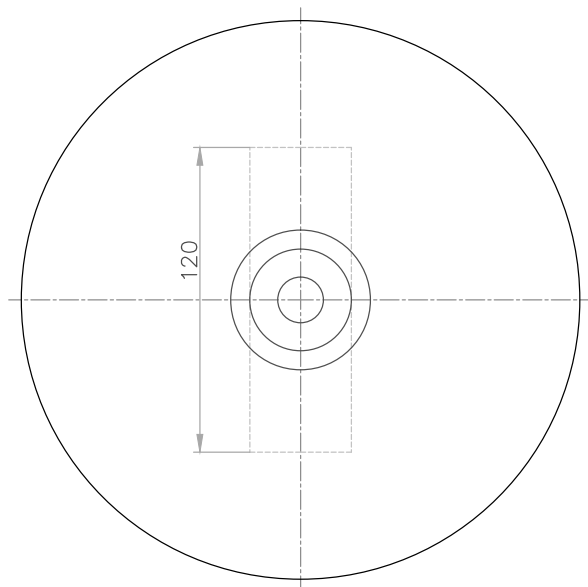
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Other specifications are available on request

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-3.0-SB

scale: n.t.s.
 drawn:
 date:
 Art. No.: 922564000 Weight: + / - 3%
 Dwg. No.: S 8075 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.



ALUMINIUM ANODE:
 net weight 3,7 kg
 gross weight 3,9 kg

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

Percentage (%)
 0,10 - 0,15
 2,0 - 5,0
 0,01 - 0,05
 0,01 - 0,05
 0,01 - 0,05
 99,85
 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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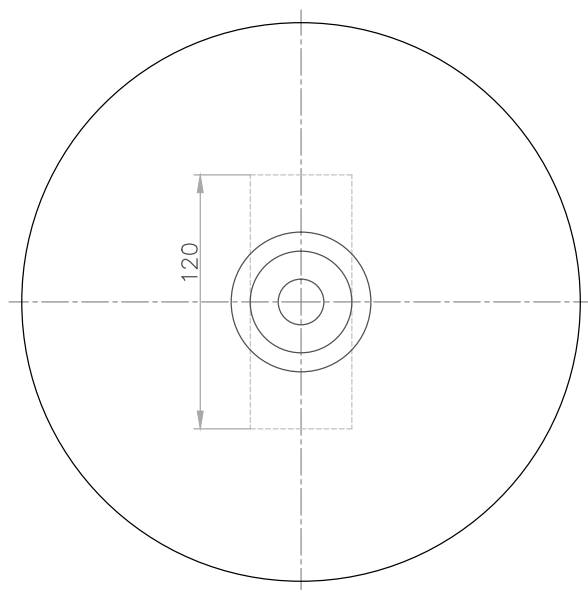
Other specifications are available on request

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-3.9-DB

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

Art. No.: 923591000 Weight: + / - 3%
 Dwg. No.: S 9331 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.



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

Aluminum alloy specification
 Components
 Silicon
 Zinc
 Titanium
 Indium
 Aluminum

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

Others each

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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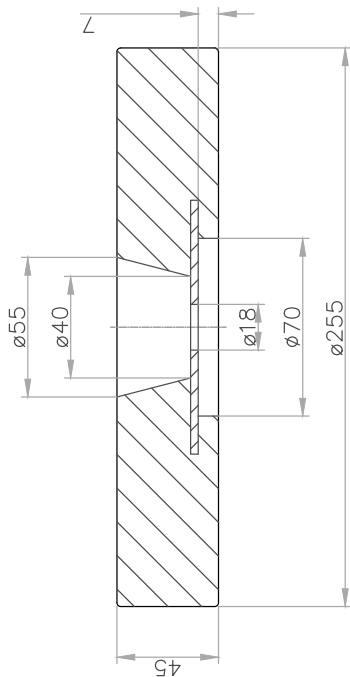
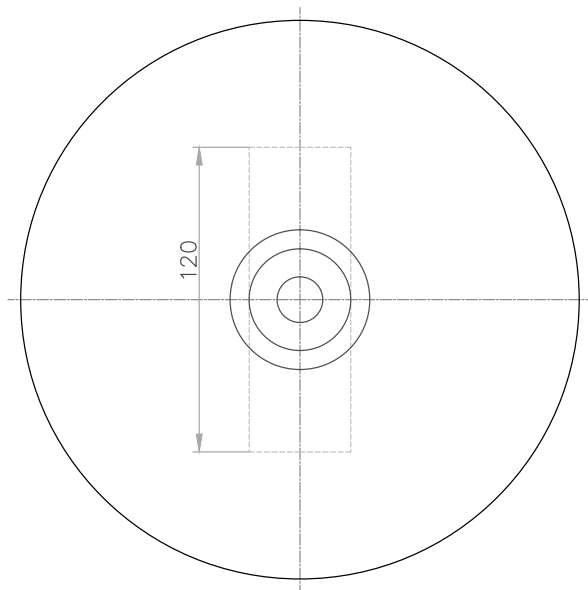
Other specifications are available on request

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

ANODE TYPE EA-4.5-DB

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

Art. No.: 923198000 Weight: + / - 3%
 Dwg. No.: S 8554 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.



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

Aluminium alloy specification
 Components
 Silicon 0,10 - 0,15
 Zinc 2,0 - 5,0
 Titanium 0,01 - 0,05
 Indium 0,01 - 0,05
 Aluminium 99,85% Purify
 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)

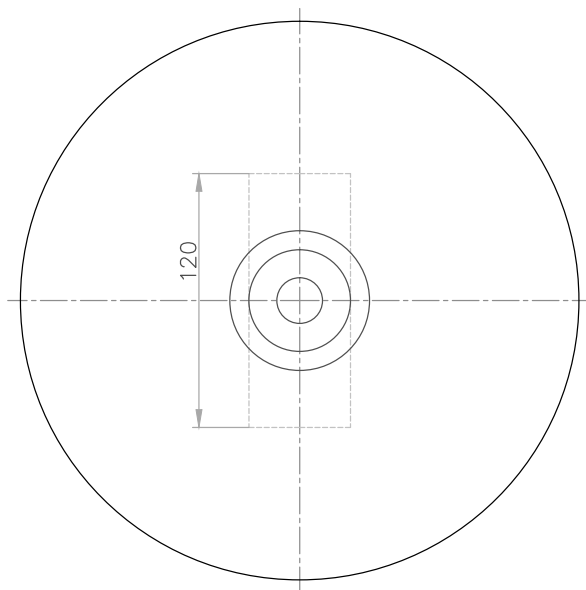
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Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE EA-6.2-SB

scale: n.t.s.
 drawn: date:
 Art. No.: 923590000 Weight: + / - 3%
 Dwg. No.: S 9522 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.



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

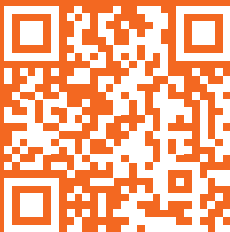
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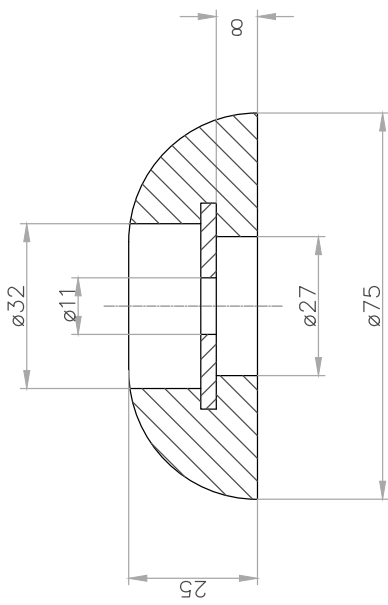
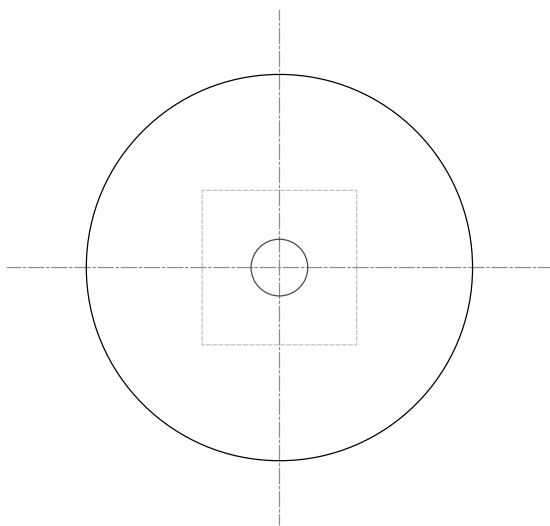
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date:	Dim.:A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

ZINC 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

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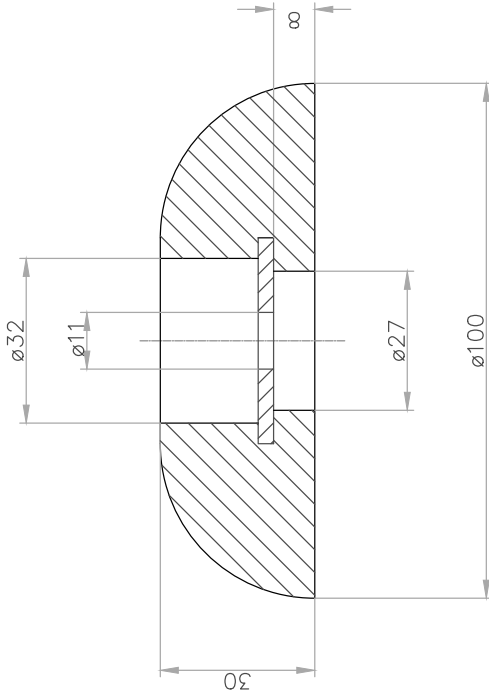
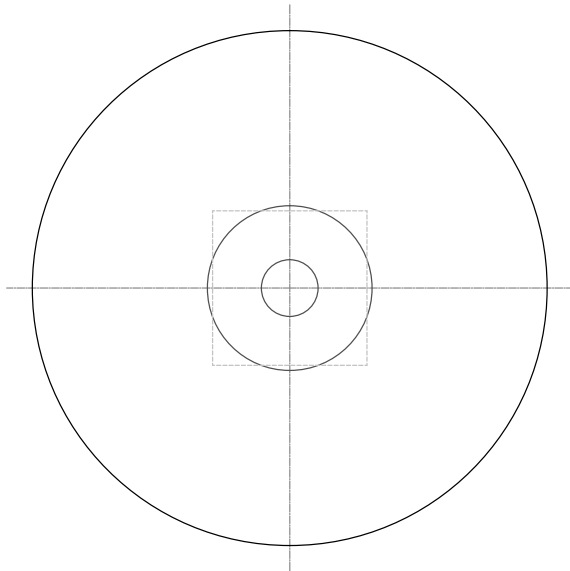
Other specifications are available on request
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale: n. t. s.	Art. No.: 922362000	Weight: +/- 3%
drawn:	Dwg. No.: S 7687	Gen. Tol.: NACE SP0387
date:	Dim.: A - 4	

ANODE TYPE EZ-0.43-DB

Zinc alloy specifications acc. to US MIL Spec A-18001K	
Copper	0.05 max
Aluminum	0.025-0.07
Cadmium	0.10-0.5
Zinc	Remainder
Impurities	
Copper	0.005 max
Lead	0.005 max
Others total	0.10 max
Electrochemical capacity	780 Ah/Kg nominal
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

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ZINC ANODE:

nominal weight 1,2 kg

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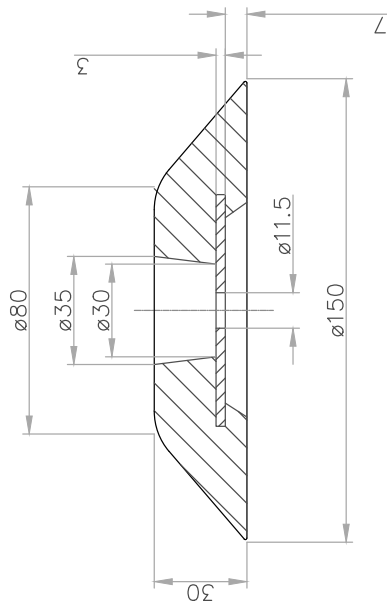
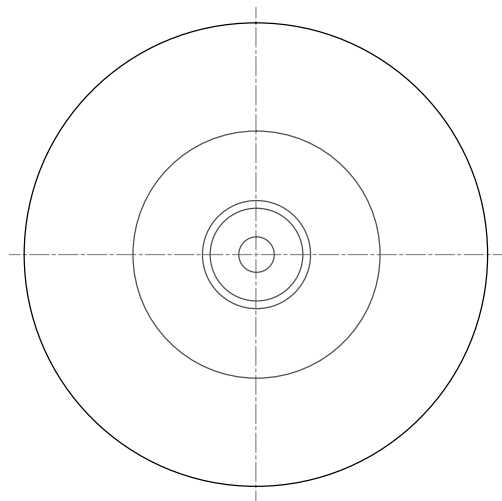
Other specifications are available on request

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-1.2-DB

Zinc alloy specifications acc. to US MIL Spec A-18001K	
Copper	0.05 max
Aluminum	0.025-0.07
Cadmium	0.10-0.15
Zinc	Remainder
	0.005 max
	0.005 max
	0.005 max
Others total	0.10 max
Electrochemical capacity:	780 Ahr/Kg nominal
Solution potential:	-1050 vs. Ag/AgCl reference cell/ nominal (in seawater)

scale: n. t. s.	Art. No.: 322370000	Weight: +/- 3%
drawn:	Dwg. No.: S 8059	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 ANODE:

nominal weight 2,3 kg

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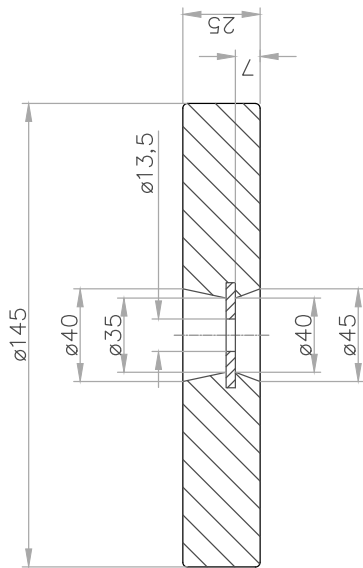
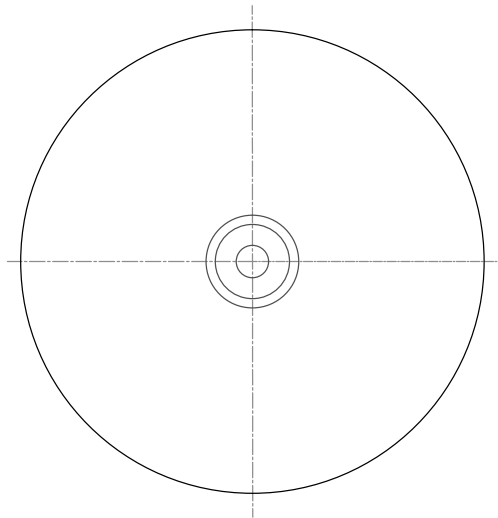
Other specifications are available on request

Zinc alloy specifications acc. to US MIL Spec A-18001K
Composition:
Copper 0.025-0.07
Aluminum 0.10-0.5
Zinc 0.005 max
Lead 0.006 max
Others total 0.10 max
Electrochemical capacity: 780 Ah/Kg nominal
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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.: 922359000	Weight: +/- 3%
drawn:	Dwg. No.: S. 7565	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 EZ-2.3-DB



ZINC ANODE:
nominal weight 2,6 kg

Zinc alloy specifications acc. to:	US MIL. Spec. A-18001K
Cadmium	0.005 max
Aluminum	0.025-0.07
Zinc	0.10-0.5
Copper	0.005 max
Lead	0.005 max
Others total	0.10 max
Electrochemical capacity:	780 Ahr/Kg nominal
Solution potential:	-1050 vs. Ag/AgCl reference cell (in seawater)

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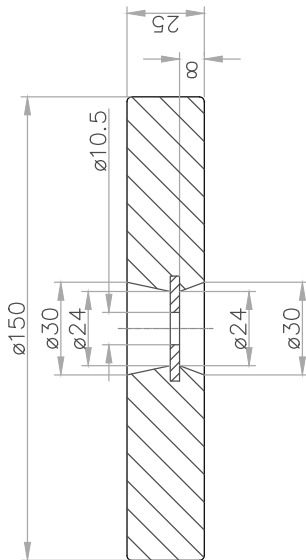
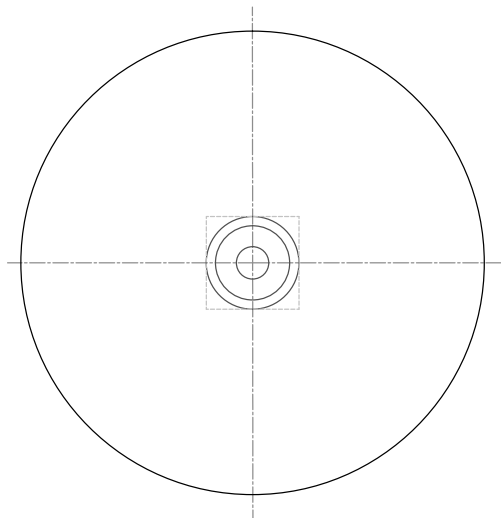
Location: The Netherlands
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Info@ampakanode.de

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

scadern. t. s.	Art. No.: 922382000
drawn:	Dwg. No.: S 8352
date:	Dim.: A-4

ANODE TYPE EZ-2.6-SB

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ZINC ANODE:
nominal weight 3,0 kg

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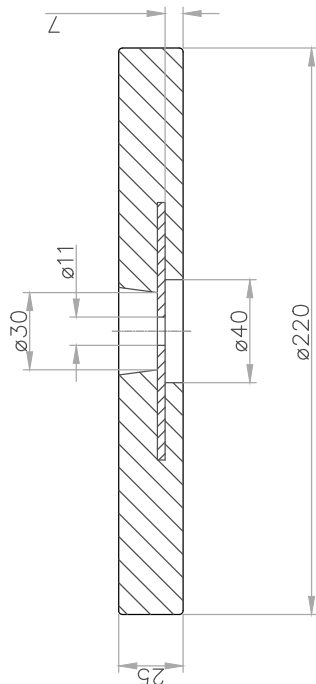
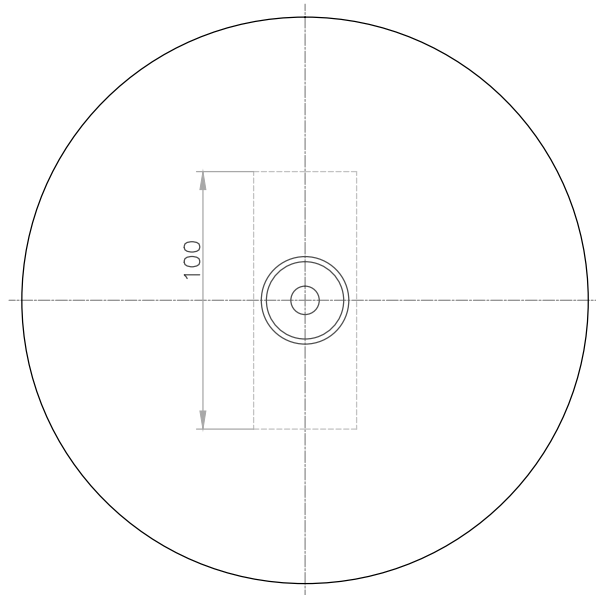
Landam, The Netherlands
P.O. Box 1440 ABU Lelystad
Tel. +31 (0) 345-633355
Fax +31 (0) 345-633344
info@ampak.nl
info@ampak.de

Other specifications are available on request

Zinc alloy specifications acc. to US MIL Spec A-18001K
Composition:
Copper 0.025-0.07
Aluminum 0.10-0.5
Zinc 0.005 max
Lead 0.006 max
Others total 0.10 max
Electrochemical capacity... 780 Ah/Kg nominal
Solution potential... -1050 vs. Ag/AgCl reference cell (in seawater)

scale: n. t. s.	Art. No.: 922377000	Weight: +/- 3%
drawn:	Dwg. No.: S 8085	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 EZ-3-SB



ZINC ANODE:

nett weight 6,6 kg

gross weight 6,8 kg

Zinc alloy specifications acc. to US MIL. Spec. A-18001K
 Cadmium 0.025-0.07
 Aluminum 0.10-0.5
 Zinc 0.005 max
 Lead 0.006 max
 Others total 0.10 max
 Electrochemical capacity: 780 Ah/Kg nominal
 Solution potential: -1050 vs. Ag/AgCl reference cell (in seawater)

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 info@ampaknode.de

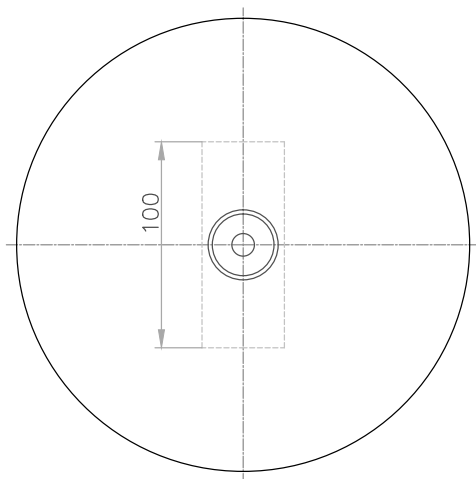
Other specifications are available on request

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

scalen. t.s.	Art. No. 3922363000
drawn:	Dwg. No.: S 7598
date:	Dim.-A-4

ANODE TYPE EZ-6.8-SB

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ZINC ANODE:
nett weight 7.2 kg
gross weight 7.4 kg

Zinc alloy specifications acc. to US MIL Spec A-18001K
Composition:
Copper 0.025-0.07
Cadmium 0.10-0.5
Aluminum 0.005 max
Zinc 0.005 max
Remainder 0.10 max
Others total 0.10 max
Electrochemical capacity: 780 Ah/Kg nominal
Solution potential: -1050 vs. Ag/AgCl reference cell (in seawater)

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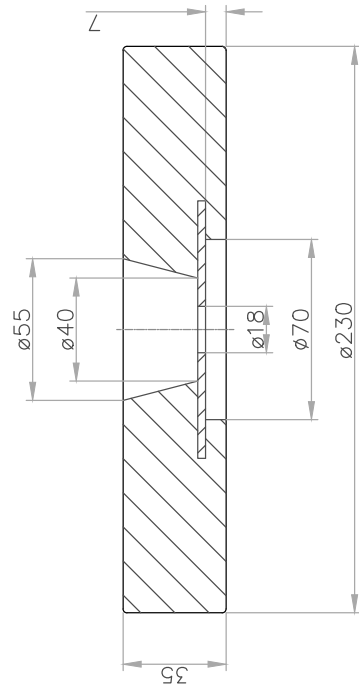
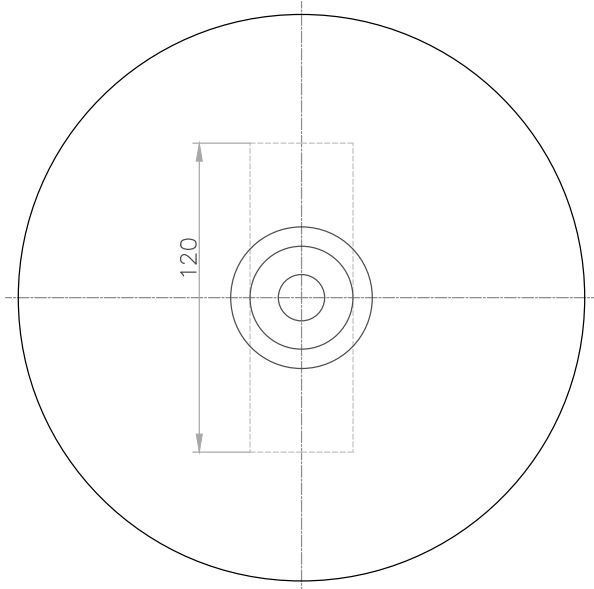
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P.O. Box 1449 ABU, Utrecht
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Fax +31 (0) 345-633344
Info@ampak.nl
Info@ampak.de

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.: 922368000	Weight: +/- 3%
drawn:	Dwg. No.: S 7597	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 EZ-7.4-SB



ZINC ANODE:
 net weight 9,8 kg
 gross weight 10,0 kg

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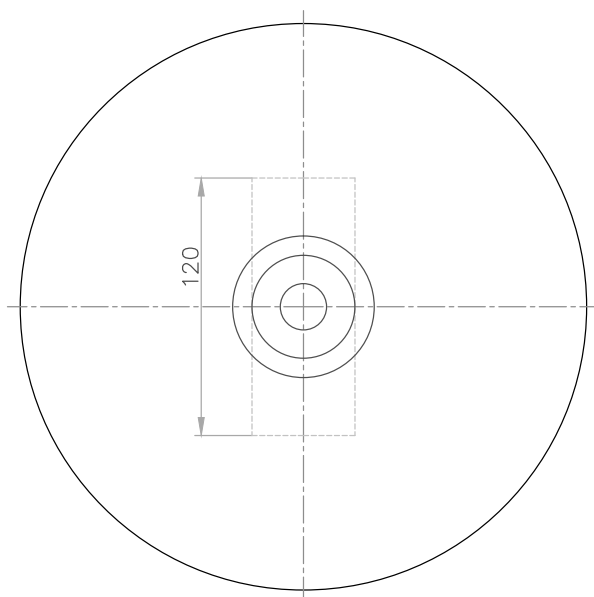
Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scalen. t.s.	Art. No.: 923293000
drawn:	Dwg. No.: S 8682
date:	Dim.: A-4

ANODE TYPE EZ-10-SB

Zinc alloy specifications acc. to:	US MIL. Spec. A-18001K
Cadmium	0.005 max
Aluminum	0.025-0.07
Zinc	0.10-0.5
Copper	0.005 max
Lead	0.005 max
Others total	0.10 max
Electrochemical capacity:	780 Ah/Kg nominal
Solution potential:	-1050 vs. Ag/AgCl reference cell (in seawater)

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ZINC ANODE:
 net weight 12,0 kg
 gross weight 12,2 kg

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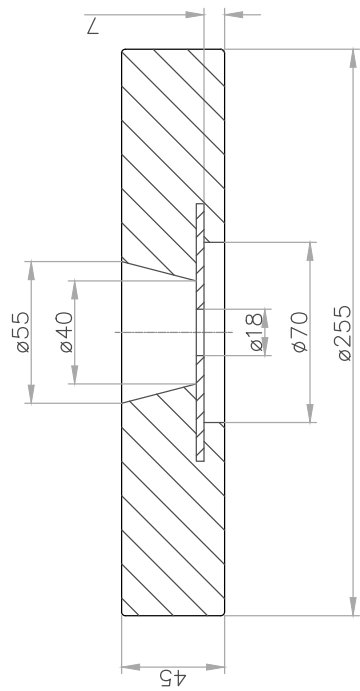
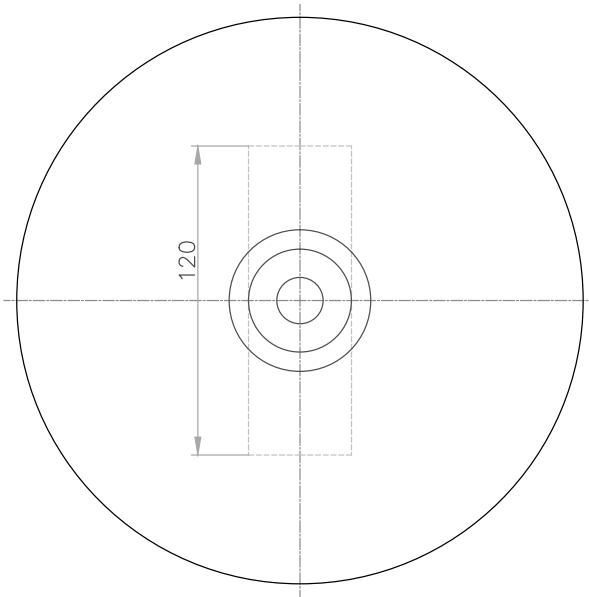
Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

scaden. t. s.	Art. No. 323234000
drawn:	Dwg. No.: S 8547
date:	Dim.: A - 4

ANODE TYPE EZ-12.2-SB

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Zinc alloy specifications acc. to:	US MIL. Spec. A-18001K
Cadmium	0.005 max
Copper	0.005 max
Aluminum	0.025-0.07
Zinc	0.10-0.15
Remainder	0.005 max
Copper	0.005 max
Lead	0.006 max
Others total	0.10 max
Electrochemical capacity:	780 Ahr/Kg nominal
Solution potential:	-1050 vs. Ag/AgCl reference cell (in seawater)



ZINC ANODE:
 net weight 15,7 kg
 gross weight 15,9 kg

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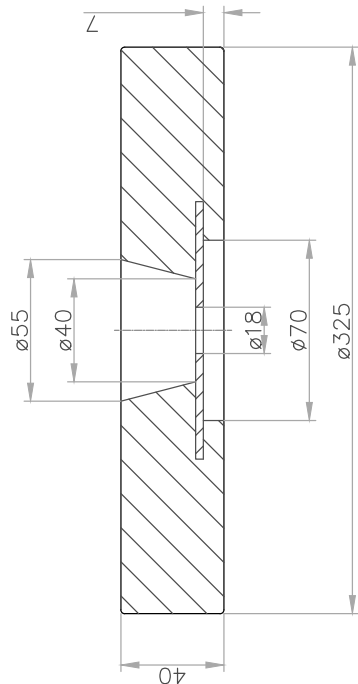
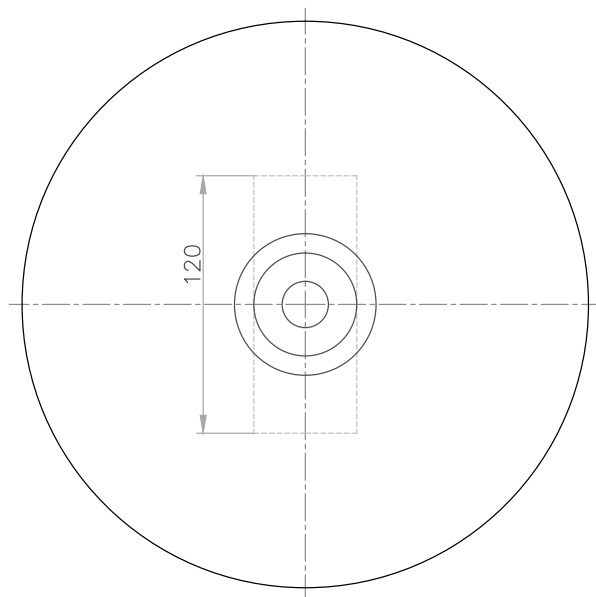
Other specifications are available on request
 Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

Zinc alloy specifications acc. to:	US MIL. Spec. A-18001K
Copper	0.005 max
Cadmium	0.025-0.07
Aluminum	0.10-0.5
Zinc	Remainder
	0.005 max
	0.006 max
	0.10 max
Others total	780 Ahr/Kg nominal
Electrochemical capacity:	-
Solution potential:	-1050 vs. Ag/AgCl reference cell (in seawater)

scalen. t.s.	Art. No.: 323294000
drawn:	Dwg. No.: S 8683
date:	Dim.: A-4

ANODE TYPE EZ-15.9-SB

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ZINC ANODE:

net weight 23,0 kg

gross weight 23,2 kg

Zinc alloy specifications acc. to US MIL Spec A-18001K
 Cadmium 0.025-0.07
 Copper 0.005 max
 Lead 0.006 max
 Aluminum 0.10-0.5
 Zinc 0.005 max
 Others total 0.10 max
 Electrochemical capacity: 780 Ah/Kg nominal
 Solution potential: -1050 vs. Ag/AgCl reference cell (in seawater)

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 info@ampakanode.com
 info@ampakanode.de

Other specifications are available on request

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scalen. t. s.	Art. No. 227115000
drawn:	Dwg. No.: S 9225
date:	Dim.: A - 4

ANODE TYPE EZ-23.2-DB

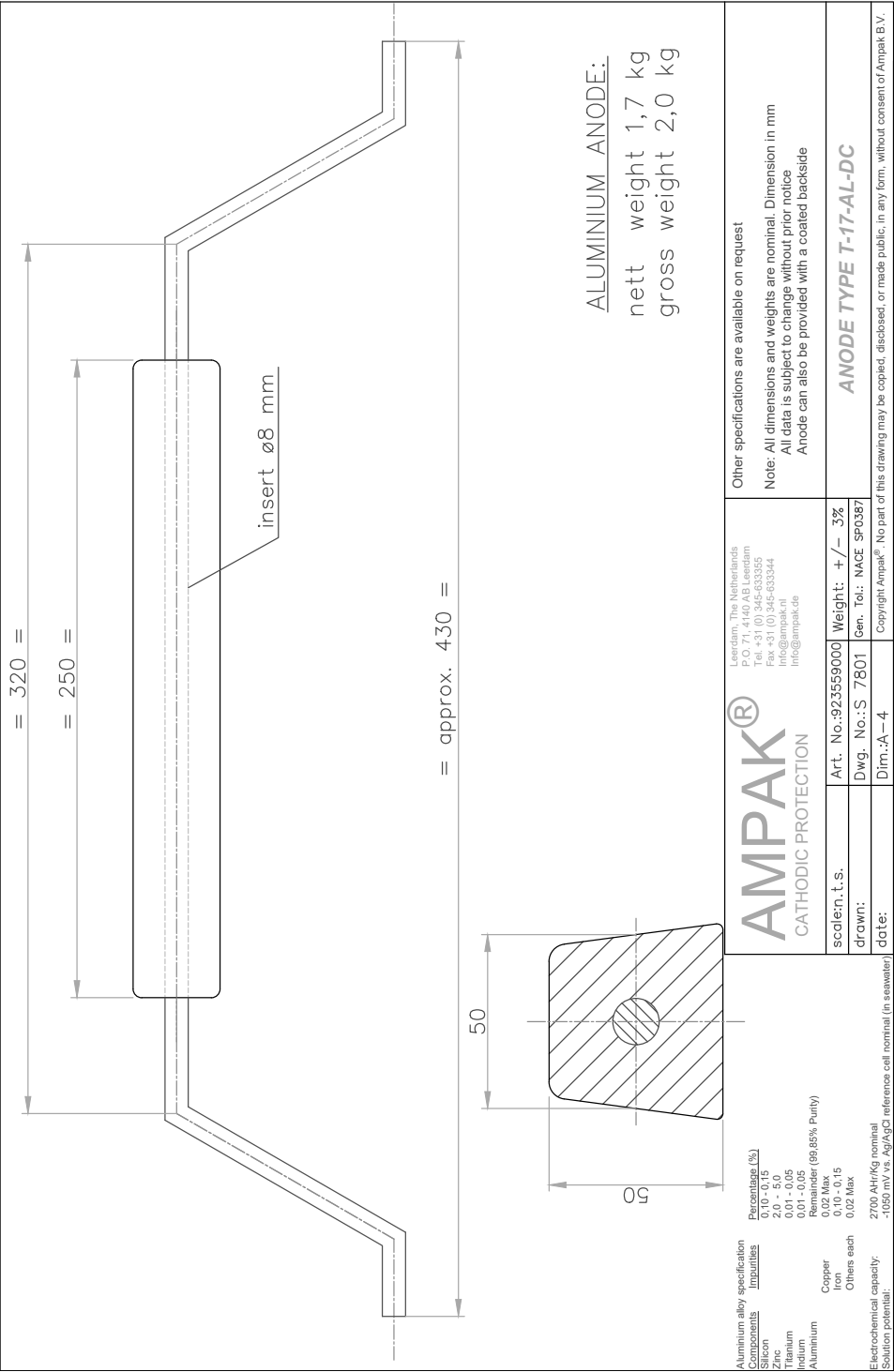
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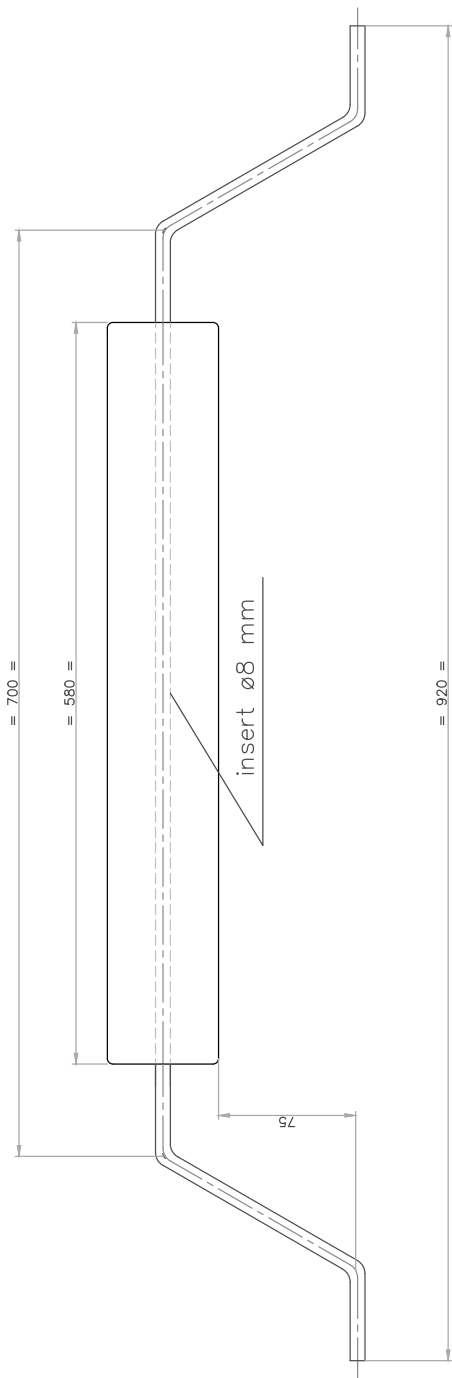
ALUMINIUM TANK ANODES

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

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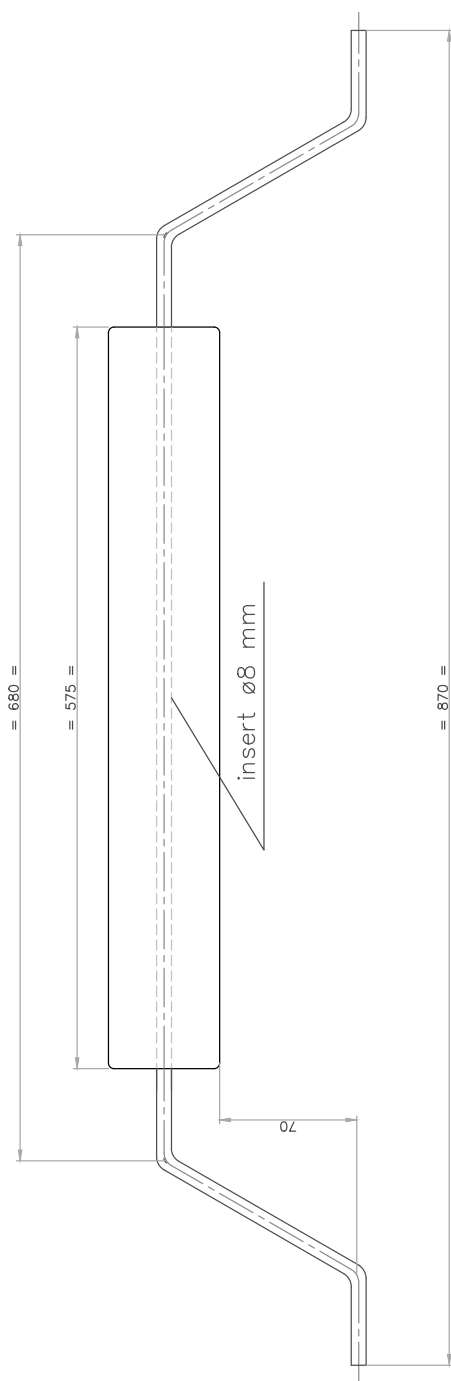






ALUMINIUM ANODE:
 Nett weight 2,6 kg
 Gross weight 3,0 kg

Aluminium alloy specification Components: Impurities Silicon 0,10 - 0,15 Iron 0,01 - 0,05 Titanium 0,01 - 0,05 Indium 0,01 - 0,05 Aluminium 99,85% Purity Copper 0,02 Max. Others each 0,02 Max.		AMPAK® CATHODIC PROTECTION scale: n.t.s. drawn: date:		Location: The Netherlands Post: 4410 AB IJmuiden Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 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	
Electrochemical capacity: Solution potential:		Art. No.: 922423000 Dwg. No.: S 5679 Dim.: A-4		Weight: +/- 3% Gen. Tel.: NACE SPQ367 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-26-AL-DC	



ALUMINIUM ANODE:
 Nett weight 4,0 kg
 Gross weight 4,4 kg

Aluminium alloy specification	
Components	Impurities
Silicon	0,10 - 0,15
Iron	0,05 - 0,10
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	Remainder (99,85% Purity)
Copper	0,02 Max
Others each	0,02 Max
Electrochemical capacity:	2700 Ahr/Kg nominal
Solution potential:	-1050 mV vs. Ag/AgCl reference cell (in seawater)

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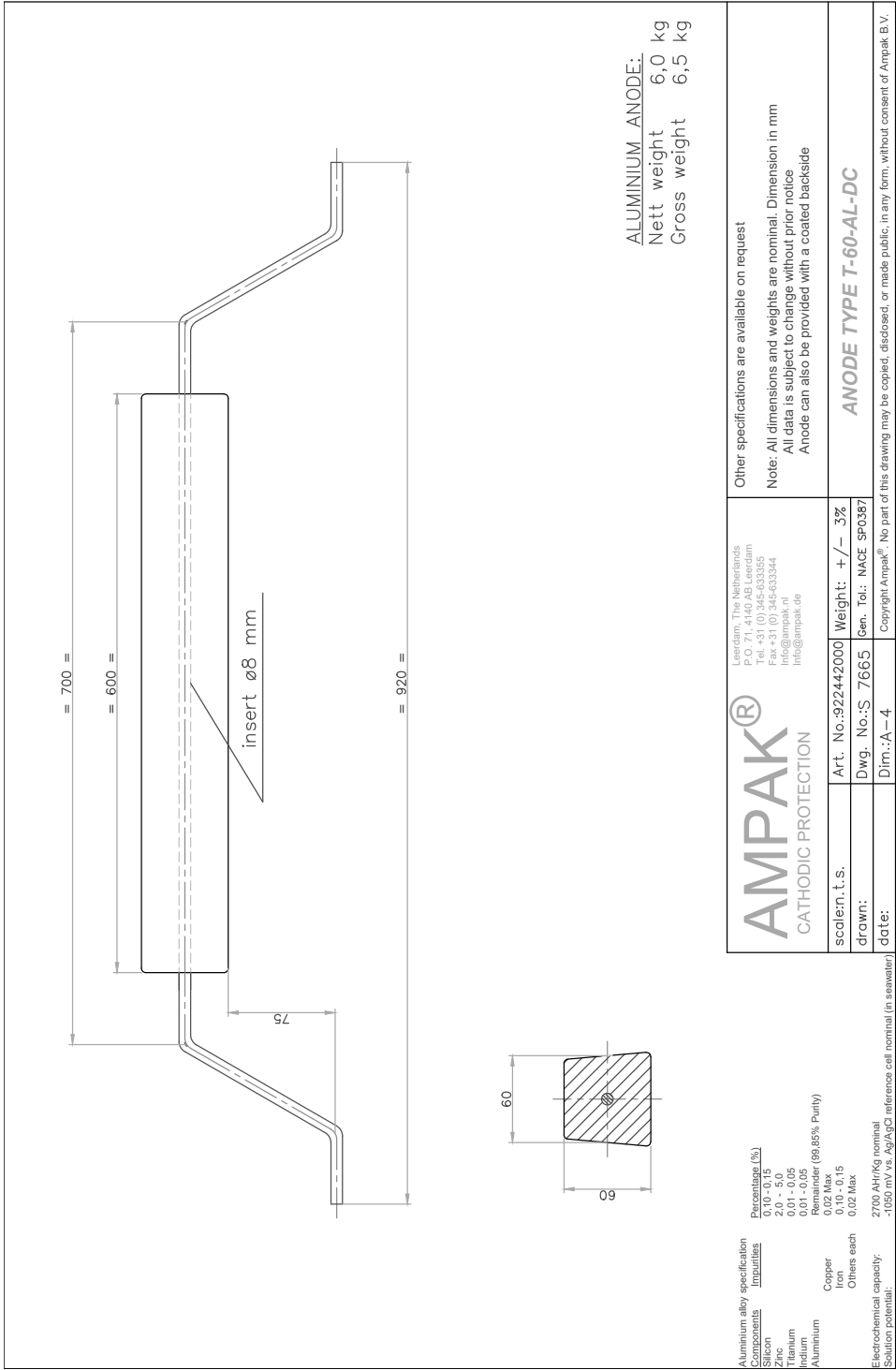
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 info@ampak.nl
 info@ampak.de

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scale:n.t.s.	Art. No.:392438000	Weight: +/- 3%
drawn:	Dwg. No.:S 7701	Gen. Tel.: NACE SPQ387
date:	Dim.:A-4	

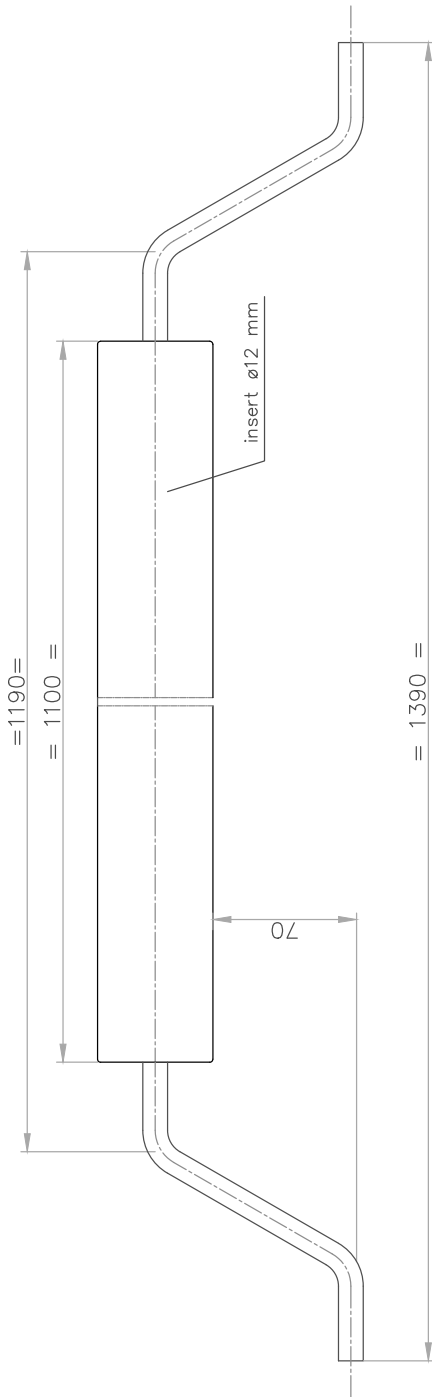
ANODE TYPE T-40-AL-DC

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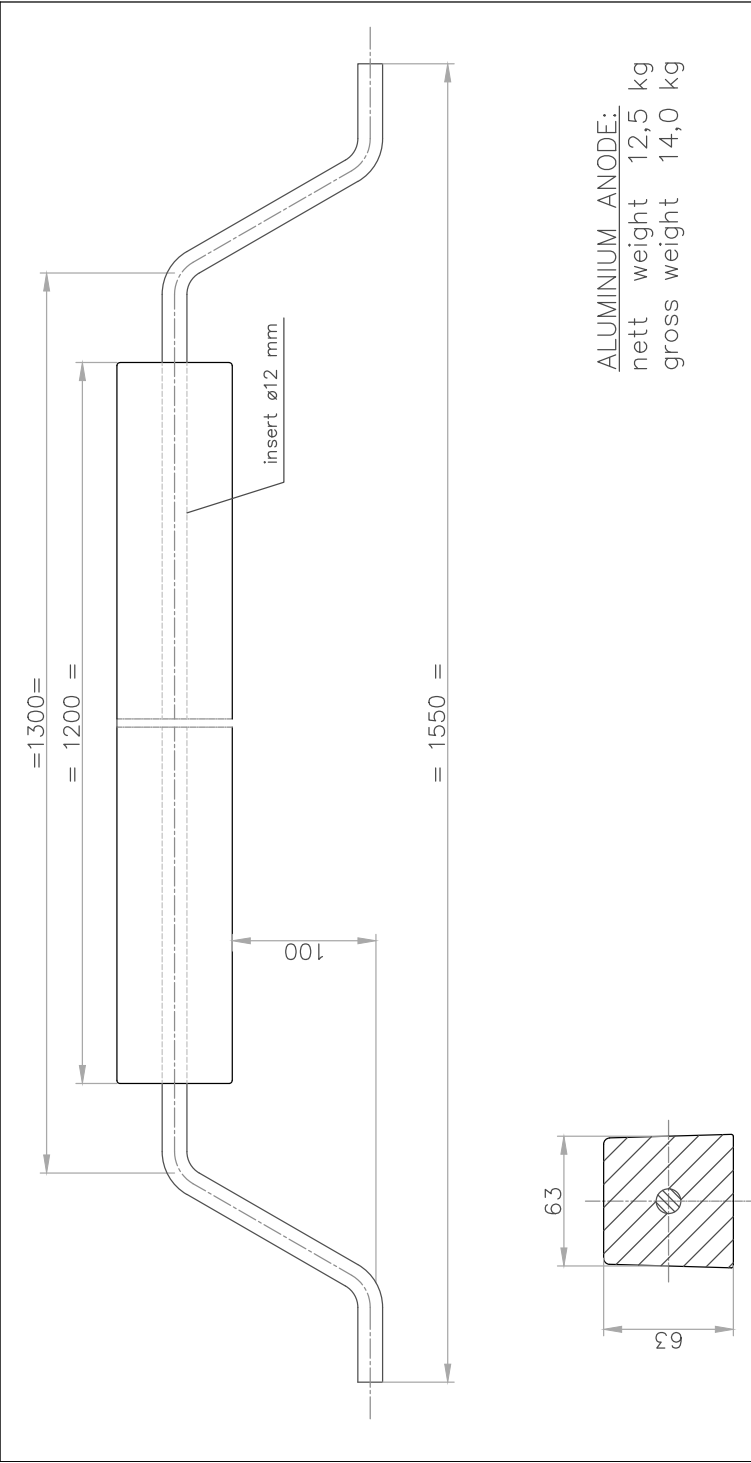
ALUMINIUM ANODE:
Nett weight 6,0 kg
Gross weight 6,5 kg

ALUMINIUM alloy specification Components Impurities Silicon Aluminum Titanium Indium Aluminum		Percentage (%) 0,10 - 0,15 0,05 - 0,10 0,01 - 0,05 0,01 - 0,05 Remainder (99,85% Purity) 0,02 Max. 0,02 Max.		Electrochemical capacity: 2700 Ahr/Kg nominal -1050 mV vs. Ag/AgCl reference cell (in seawater)	
Copper Others each		0,02 Max. 0,02 Max.		Solution potential:	
scalen. t. s.		Art. No. 922442000		Weight: +/- 3%	
drawn:		Dwg. No.: S 7665		Gen. Tol.: NACE SPQ387	
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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				ANODE TYPE T-60-AL-DC	



ALUMINIUM ANODE:
 nett weight 9,0 kg
 gross weight 10,4 kg

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Aluminium alloy specification	Percentage (%)	Art. No.:922409000	Weight: +/- 3%	ANODE TYPE T-90-AL-DC	
Components	Impurities	Dwg. No.:S 5557	Gen. Tol.: NACE SPQ387		
Silicon	0,10 - 0,15	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.		
Aluminum	0,01 - 0,05				
Titanium	0,01 - 0,05				
Indium	0,01 - 0,05				
Aluminum	Remainder (99,85% Purity)				
Copper	0,02 Max.				
Others each	0,02 Max.				
Electrochemical capacity:	2700 Ahr/Kg nominal				
Solution potential:	-1050 mV vs. Ag/AgCl reference cell (in seawater)				



ALUMINIUM ANODE:
nett weight 12,5 kg
gross weight 14,0 kg

Aluminium alloy specification	
Components	Impurities
Silicon	0,10 - 0,15
Iron	0,05
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	Remainder (99,85% Purity)
Copper	0,02 Max.
Others each	0,01 Max.
Electrochemical capacity:	2700 Ahr/Kg nominal
Solution potential:	-1050 mV vs. Ag/AgCl reference cell nominal (in seawater)

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scale:n.t.s.	Art. No.:922416000
drawn:	Dwg. No.:S 5653
date:	Dim.:A-4
Weight: +/- 3%	
Gen. Tel.: NACE SPQ387	

Leiding, The Netherlands
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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

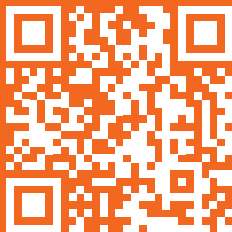
ANODE TYPE T-125-AL-DC

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ZINC TANK ANODES

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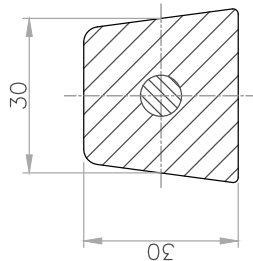


= 480 =

= 400 =

= 670 =

insert ø8 mm



ZINC ANODE:

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

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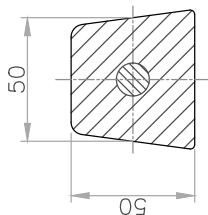
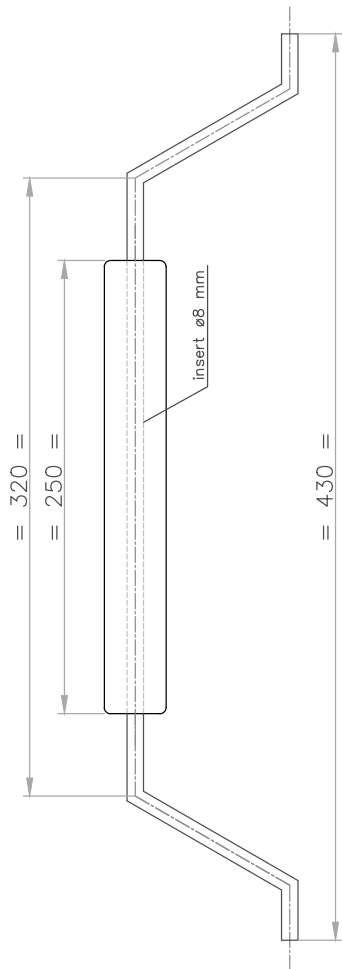
Other specifications are available on request

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

Zinc alloy specifications acc. to US MIL Spec A-18001K	
Copper	0,05 max
Cadmium	0,025-0,07
Aluminum	0,10-0,5
Zinc	Remainder
Others total	0,10 max
Electrochemical capacity	780 Ah/Kg nominal
Solution potential	-1050 vs. Ag/AgCl reference cell (in seawater)

scalen: t.s.	Art. No. 927116000	Weight: +/- 3%
drawn:	Dwg. No.: S 7817	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 ANODE:
 nett weight 4,3 kg
 gross weight 4,6 kg

Zinc alloy specifications acc. to US MIL Spec A-18001K	
Cadmium	0.025-0.07
Aluminum	0.10-0.5
Zinc	0.005 max
Copper	0.005 max
Lead	0.005 max
Others total	0.10 max
Electrochemical capacity	780 Ahr/Kg nominal
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

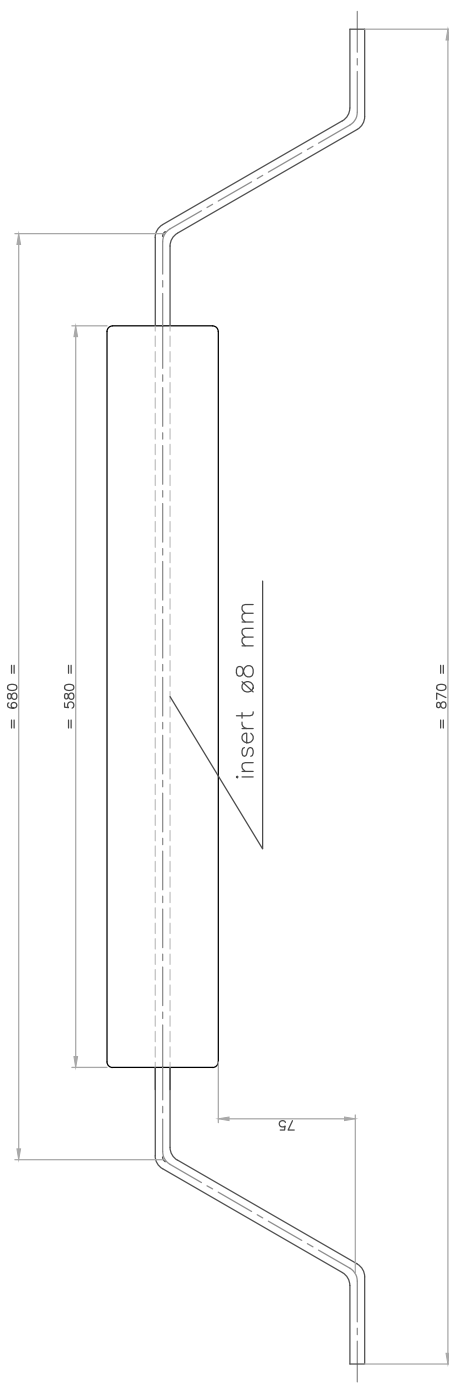
AMPAK® CATHODIC PROTECTION	
scale: n.t.s.	Art. No.: 922110000
drawn:	Dwg. No.: S 5755
date:	Dim.: A-4
	Weight: +/- 3%
	Gen. Tol.: NACE SP0387

Location: The Netherlands
 P.O. Box 4149, IJsselstein
 Tel. +31 (0) 345-633355
 Fax +31 (0) 345-633344
 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

ANODE TYPE T-43-Z-DC

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ZINC ANODE:
 Nett weight 7,3 kg
 Gross weight 7,7 kg

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Location: The Netherlands
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 Tel. +31 (0) 345-633355
 Fax +31 (0) 345-633444
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 Info@ampak.de

Other specifications are available on request

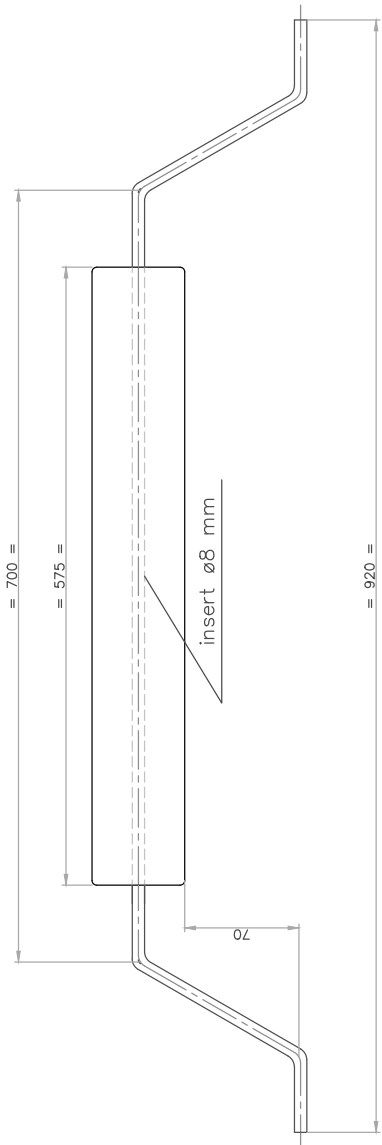
Zinc alloy specifications acc. to US MIL Spec-A-18001K
 Composition:
 Cadmium 0,025-0,07 %
 Aluminum 0,10-0,5
 Zinc Remainder
 Copper 0,005 max
 Lead 0,006 max
 Others total 0,10 max
 Electrochemical capacity: 780 Ahr/Kg nominal
 Solution potential: -1050 vs. Ag/AgCl reference cell (in seawater)

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

scal.en. t.s.	Art. No.: 322108000	Weight: +/- 3%
drawn:	Dwg. No.: S 5650	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE T-73-Z-DC

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ZINC ANODE:
 Nett weight 10,0 kg
 Gross weight 10,4 kg

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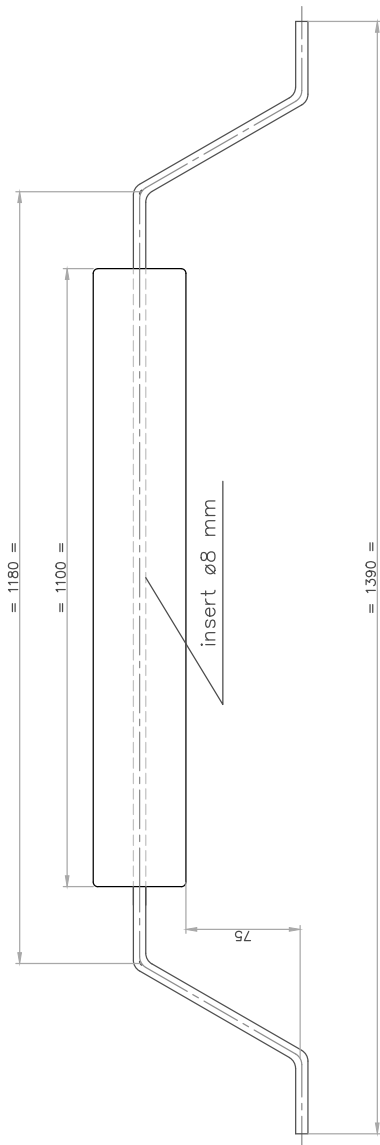
Location: The Netherlands
 Post: 1440 AB IJmuiden
 Tel: +31 (0) 345-633355
 Fax: +31 (0) 345-633344
 Info@ampak.nl
 info@ampak.de

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

ANODE TYPE T-100-Z-DC

Zinc alloy specifications acc. to US MIL Spec A-18001K	
Cadmium	0.025-0.07
Aluminum	0.10-0.5
Zinc	Remainder
Copper	0.005 max
Lead	0.005 max
Others total	0.10 max
Electrochemical capacity	780 Ah/Kg nominal
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

scale: n. t. s.	Art. No.: 92363500	Weight: +/− 3%
drawn:	Dwg. No.: S 7694	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 ANODE:
 Nett weight 12,0 kg
 Gross weight 12,6 kg

Zinc alloy specifications acc. to US MIL Spec-A-18001K	
Cadmium	0.005 max
Aluminum	0.025-0.07
Zinc	0.10-0.15
Copper	0.005 max
Lead	0.005 max
Others total	0.10 max
Electrochemical capacity...	780 Ahr/Kg nominal
Solution potential...	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

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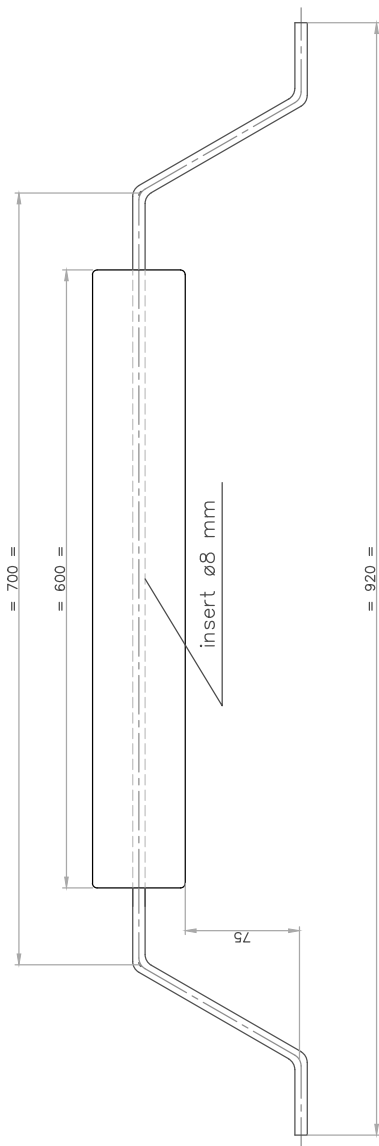
Other specifications are available on request

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.: 922104000	Weight: +/- 3%
drawn:	Dwg. No.: S 4329	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE T-120-Z-DC

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ZINC ANODE:
 Nett weight 15,3 kg
 Gross weight 15,8 kg

Zinc alloy specifications acc. to US MIL Spec A-18001K	
Copper	0.005 max
Aluminum	0.005 max
Impurities	0.025±0.07
Remainder	0.10-0.15
Copper	0.005 max
Lead	0.005 max
Others total	0.10 max
Electrochemical capacity	780 Ahr/Kg nominal
Solution potential	-1050 vs. Ag/AgCl reference cell (in seawater)

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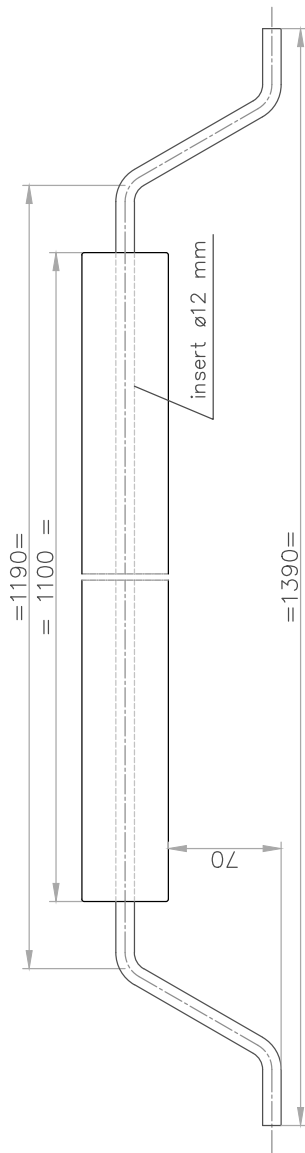
Other specifications are available on request

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 T-153-Z-DC

scale: n.t.s.	Art. No.: 922135000	Weight: +/− 3%
drawn:	Dwg. No.: S 7705	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

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ZINC ANODE:
 nett weight 22,0 kg
 gross weight 23,4 kg

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scale: n. t. s.	Art. No.: 922096000	Weight: +/— 3%	ANODE TYPE T-220-Z-DC		
drawn:	Dwg. No.: S 5651	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 Cadmium 0.025-0.07 Copper 0.10-0.5 Aluminum 0.005 max Lead 0.006 max Zinc 0.10 max Others total 780 Ahr/Kg nominal Electrochemical capacity: -1050 vs. Ag/AgCl reference cell (in seawater) Solution potential:					

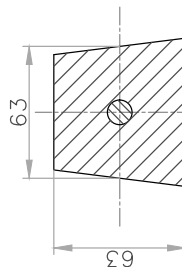
= 1300 =

= 1200 =

= 1550 =

Insert $\varnothing 12$ mm

50



ZINC ANODE:
nett weight 32,0 kg
gross weight 33,5 kg

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info@ampakanode.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 T-320-Z-DC

scale: n.t.s.	Art. No.: 922100000	Weight: +/- 3%
drawn:	Dwg. No.: S 5657	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.

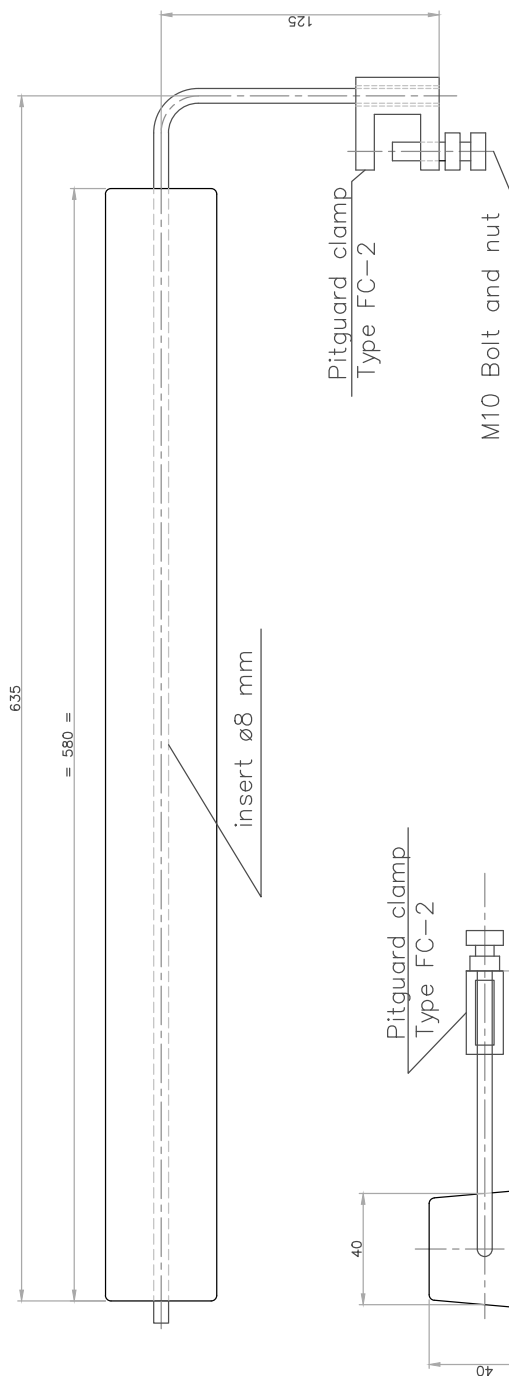
Zinc alloy specifications acc. US MIL Spec A-18001K
Composition:
Copper 0,025-0,07
Cadmium 0,10-0,5
Aluminum Remainder
Zinc 0,005 max
Lead 0,006 max
Others total 0,10 max
Electrochemical capacity: 780 Ah/Kg nominal
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

ALUMINIUM PITGUARD ANODES

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

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ALUMINIUM ANODE:

Nett weight 2,6 kg

Gross weight 3,1 kg (incl. clamp)

Aluminium alloy specification	
Components	Impurities
Silicon	0,10 - 0,15
Iron	0,10 - 0,15
Titanium	0,01 - 0,05
Indium	0,01 - 0,05
Aluminium	Remainder (99,85% Purity)
Copper	0,02 Max
Others each	0,02 Max
Electrochemical capacity:	
2700 Ahr/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

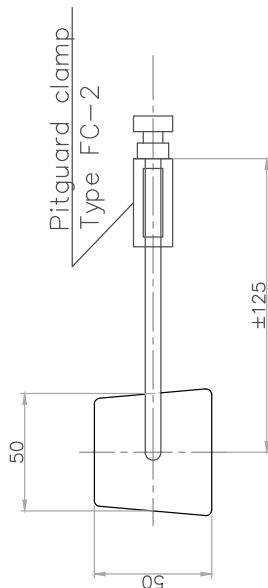
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

scale:n.t.s.	Art. No.:923852000	Weight: +/- 3%
drawn:	Dwg. No.:S 7715	Gen. Tol.: NACE SPQ387
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-26-AL PITGUARD

635

= 575 =

insert $\varnothing 8$ mmPitguard 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
Iron 0,00 - 0,01
Titanium 0,01 - 0,05
Indium 0,01 - 0,05
Aluminium Remainder (99,85% Purity)
Copper 0,02 Max.
Others each 0,02 Max.

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

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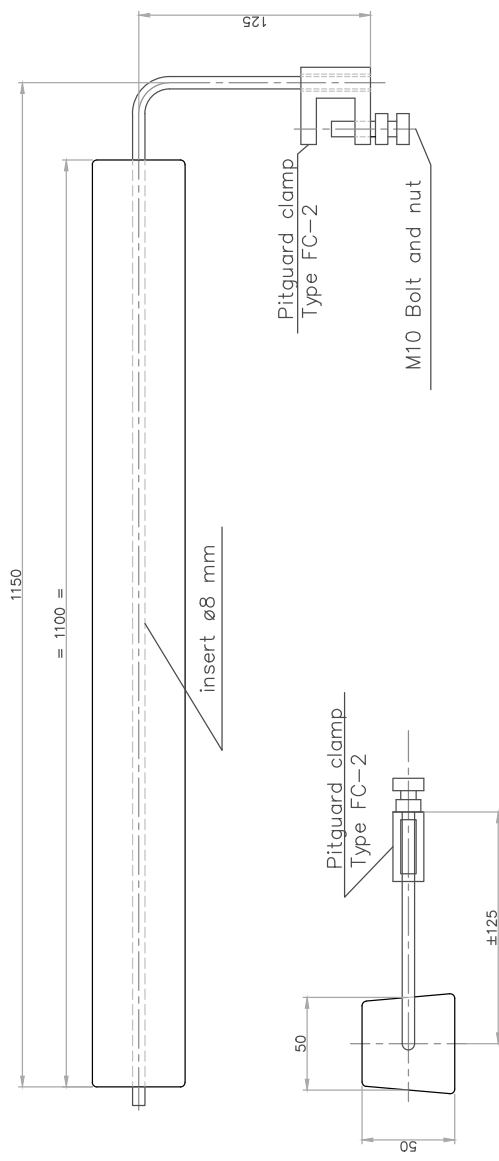
Leiding, Tijn, Nethelands
Postbus 4410 B, IJsselstein
Tel. +31 (0) 345-633355
Fax +31 (0) 345-633344
info@ampak.nl
info@ampak.de

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

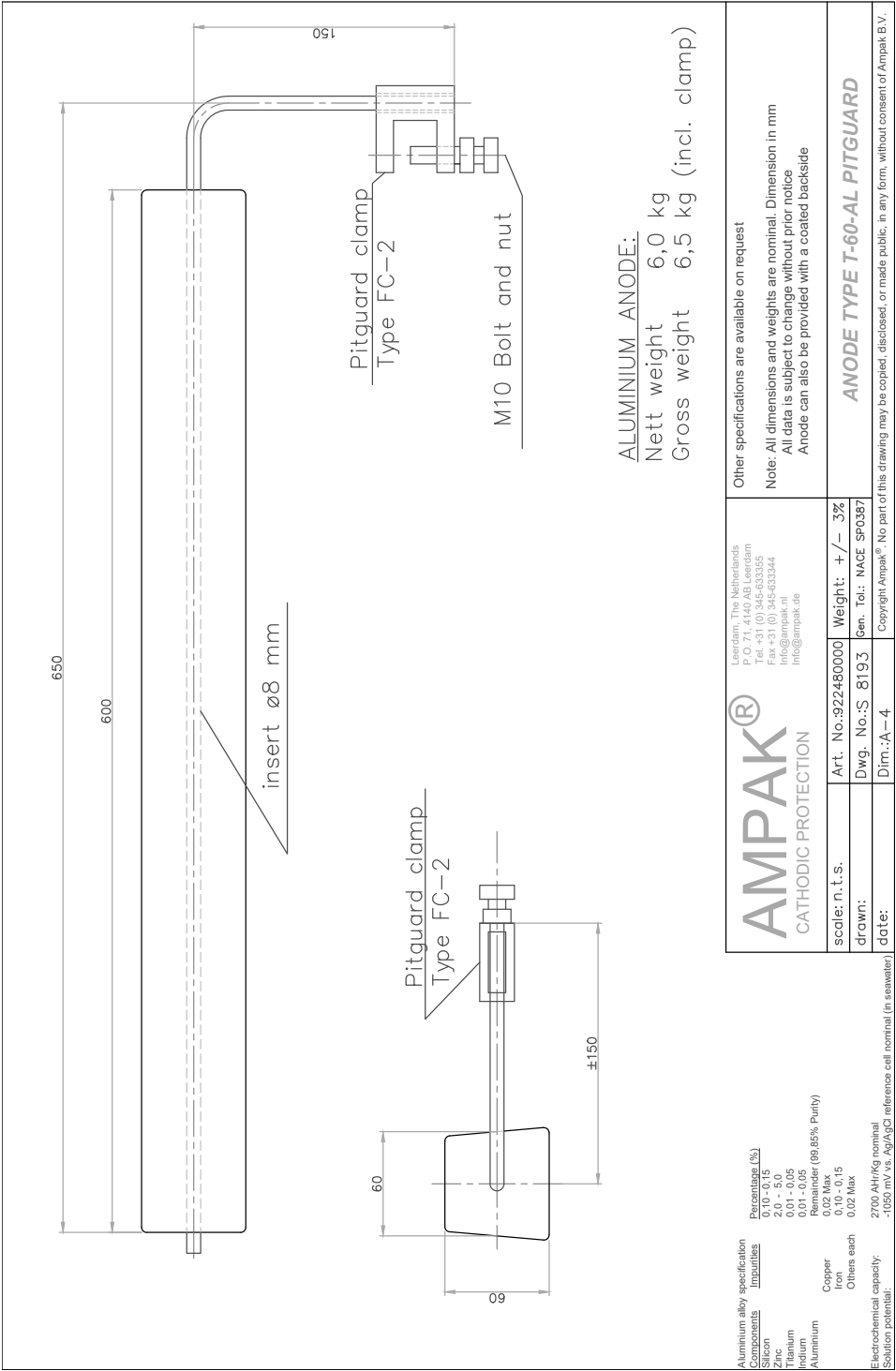
scale:n.t.s.	Art. No.:92247600D	Weight: + / - 3%
drawn:	Dwg. No.:S 7860	Gen. Tel.: NACE SPQ387
date:	Dim.:A-4	Copyright Ampak®. No part of this drawing may be copied, disclosed, or made public, in any form, without consent of Ampak B.V.

ANODE TYPE T-40-AL PITGUARD



ALUMINIUM ANODE:
 Nett weight 4,5 kg
 Gross weight 5,3 kg (incl. clamp)

Aluminum alloy specification		Leadam, The Netherlands P.O. Box 44108, Amsterdam Tel. +31 (0) 345-633355 Fax +31 (0) 345-633344 info@ampak.nl info@ampak.de	
Components	Impurities		
Silicon	0,10 - 0,15		
Iron	0,05 - 0,10		
Titanium	0,01 - 0,05		
Indium	0,01 - 0,05		
Aluminum	Remainder (99,85% Purity)		
Copper	0,02 Max	scale:	n.t.s.
Iron	0,02 - 0,15	drawn:	Art. No.:922467000
Others each	0,02 Max		Weight: +/- 3%
Electrochemical capacity: 2700 Ahr/Kg nominal		Dwg. No.:S	7664
Solution potential: -1050 mV vs. Ag/AgCl reference cell nominal (in seawater)		Dim.:	A 4
		date:	
		ANODE TYPE T-45-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	



Aluminium alloy specification	Percentage (%)
Components	0.10 - 0.15
Silicon	0.10 - 0.15
Titanium	0.01 - 0.05
Indium	0.01 - 0.05
Aluminium	Remainder (99.85% purity)
Copper	0.02 Max.
Others each	0.02 Max.
Electrochemical capacity:	2700 Ahr/Kg nominal
Solution potential:	-1050 mV vs. Ag/AgCl reference cell nominal (in seawater)

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scale: n.t.s.	Art. No.: 922480000	Weight: +/- 3%
drawn:	Dwg. No.: S 8193	Gen. Tel.: NACE SPQ387
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.

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-60-AL PITGUARD	

ALUMINIUM ANODE:
Nett weight 6,0 kg
Gross weight 6,5 kg (incl. clamp)

Pitguard clamp
Type FC-2

M10 Bolt and nut

insert $\varnothing 8$ mm

Pitguard clamp
Type FC-2

60

60

± 150

150

650

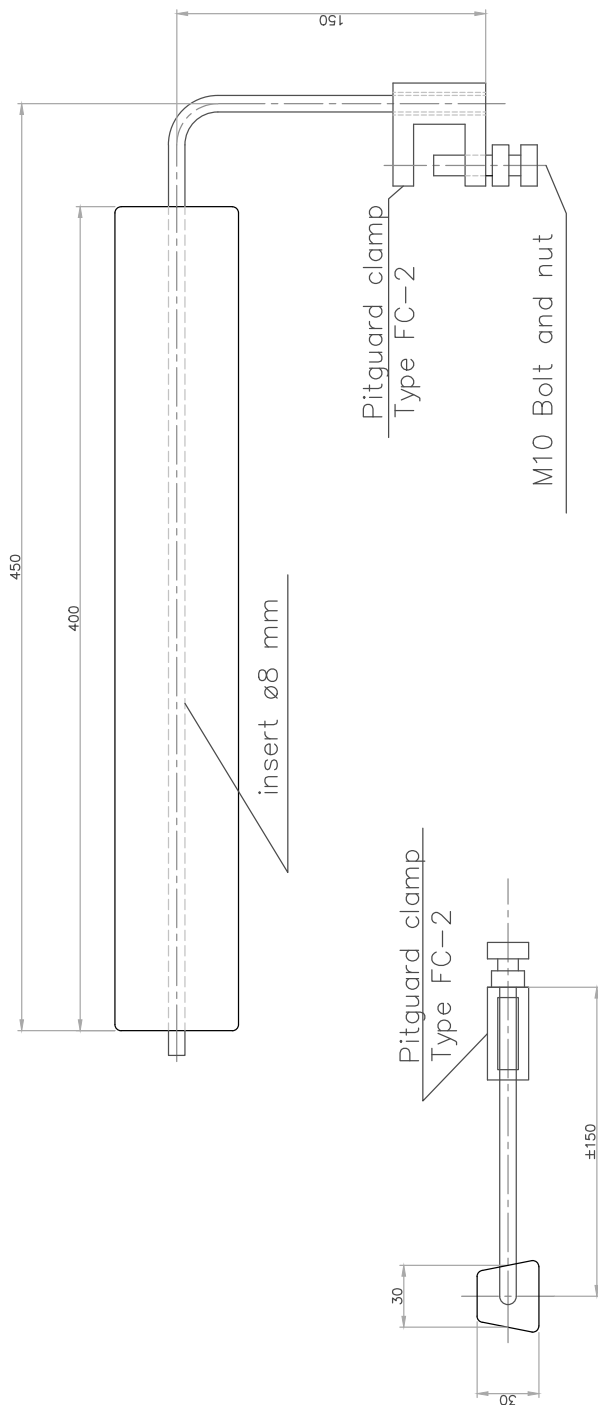
600

ZINC PITGUARD ANODES

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

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Pitguard clamp
Type FC-2

M10 Bolt and nut

ZINC ANODE:

Nett weight 2,4 kg

Gross weight 2,8 kg (incl. clamp)

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Info@ampak.nl
info@ampaknode.com
info@ampaknode.us

Other specifications are available on request

Zinc alloy specifications acc. US MIL Spec-A-18001K
Composition:
Copper 0,005 max
Cadmium 0,025-0,07
Aluminum 0,10-0,5
Zinc Remainder
Copper 0,005 max
Lead 0,005 max
Others total 0,10 max

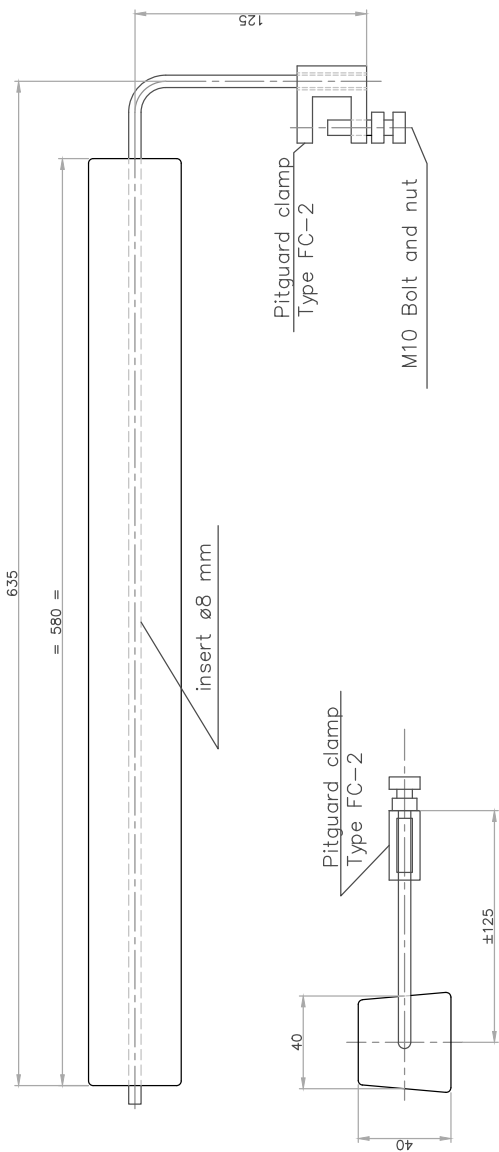
Electrochemical capacity: 780 Ah/Kg nominal
Solution potential: -1050 vs. Ag/AgCl reference cell nominal (in seawater)

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.: 927117000	Weight: +/− 3%
drawn:	Dwg. No.: S 8286	Gen. Tol.: NACE SP0387
date:	Dim.: A-4	

ANODE TYPE T-24-Z PITGUARD

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ZINC ANODE:
 Nett weight 7,3 kg
 Gross weight 7,8 kg (incl. clamp)

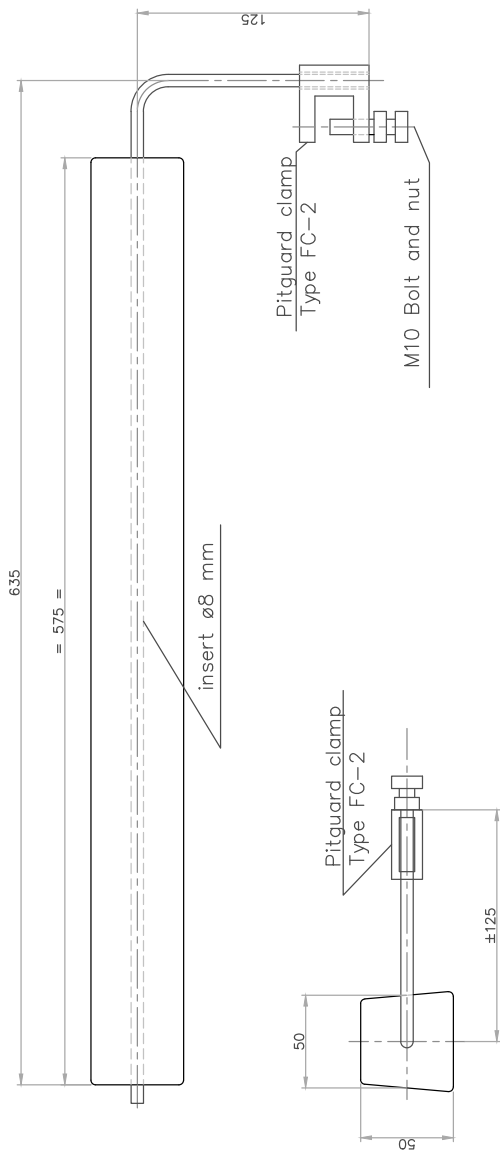
Zinc alloy specifications acc. to US MIL Spec-A-18001K	
Copper	0.005 max
Aluminum	0.025-0.07
Gadimium	0.10-0.5
Zinc	Remainder
	0.005 max
	0.006 max
	0.10 max
Others total	780 Ahr/Kg nominal
Electrochemical capacity	-1050 vs. Ag/AgCl reference cell (in seawater)
Solution potential	

AMPAK® CATHODIC PROTECTION	
scale: n.t.s.	Art. No.:922109000
drawn:	Dwg. No.:S 7704
date:	Dim.:A-4
	Weight: +/- 3%
	Gen. 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 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

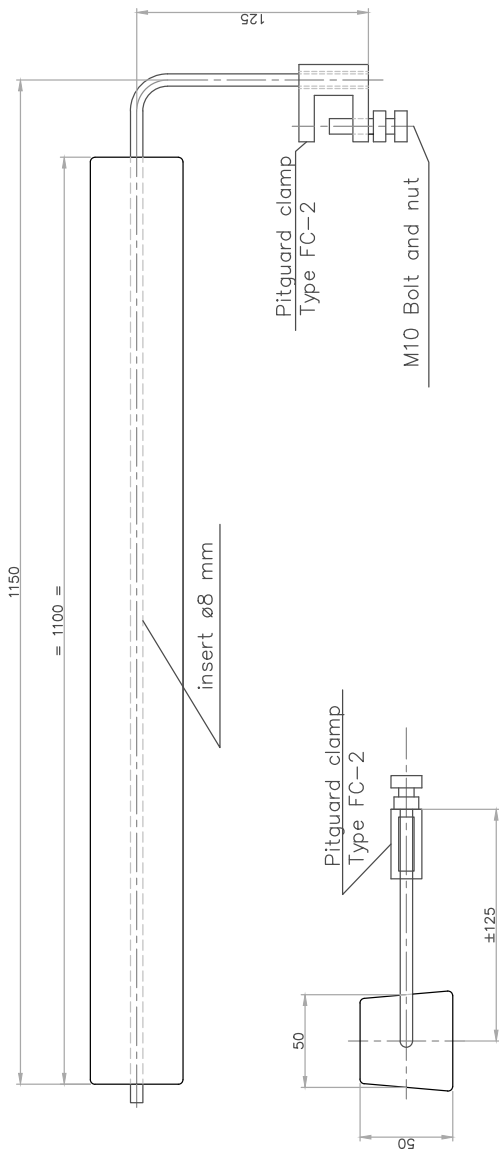
Note: All dimensions and weights are nominal. Dimension in mm
 All data is subject to change without prior notice
 Anode can also be provided with a coated backside

ANODE TYPE T-100-Z PITGUARD

scale:n. t.s.	Art. No.: 323508000	Weight: +/- 3%
drawn:	Dwg. No.: S 7788	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. to US MIL Spec A-18001K
 Composition:
 Aluminum 99.995 max
 Cadmium 0.025-0.07
 Zinc 0.10-0.5
 Remainder
 Copper 0.005 max
 Lead 0.005 max
 Others total 0.10 max

Electrochemical capacity: 780 Ah/Kg nominal
 Solution potential: -1050 vs. Ag/AgCl reference cell (in seawater)



ZINC ANODE:
 Nett weight 12,0 kg
 Gross weight 12,8 kg (incl. clamp)

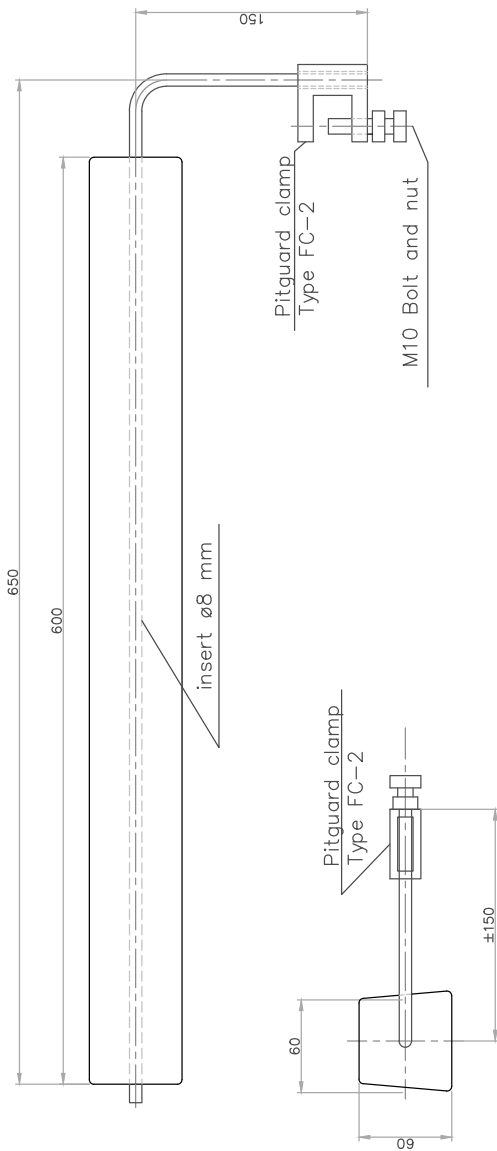
Zinc alloy specifications acc. to US MIL Spec-A-18001K	
Copper	0.005 max
Aluminum	0.025-0.07
Zinc	0.10-0.5
Impurities	Remainder
Lead	0.005 max
Others total	0.10 max
Electrochemical capacity	780 Ahr/Kg nominal
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

AMPAK® CATHODIC PROTECTION	
Art. No.: 922127000	Weight: +/- 3%
Dwg. No.: S 8379	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.

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



ZINC ANODE:

Nett weight 12,0 kg

Gross weight 12,8 kg (incl. clamp)

Zinc alloy specifications acc. to US MIL Spec A-18001K	
Copper	0.005 max
Aluminum	0.025-0.07
Cadmium	0.10-0.5
Zinc	Remainder
Others total	0.005 max
Electrochemical capacity	0.10 max
Solution potential	-1050 vs. Ag/AgCl reference cell nominal (in seawater)

AMPAK®
CATHODIC PROTECTION

Location: The Netherlands
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Tel: +31 (0) 345-633355
Fax: +31 (0) 345-633344
Info@ampak.nl
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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.: 327118000	Weight: +/— 3%
drawn:	Dwg. No.: S 11078	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 T-153-Z PITGUARD

DIVERSE ANODES AND APPLICATIONS

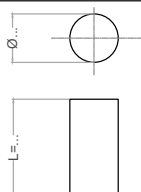
- ZINC AND ALUMINIUM ROD ANODES
- ZINC AND ALUMINIUM SHAFT ANODES
- ZINC PENCIL AND BRASS PLUGS
 - BACKING SHEETS
 - MOUNTINGS MATERIAL
 - ANTIFOULING ANODES
 - MAGNESIUM ANODES

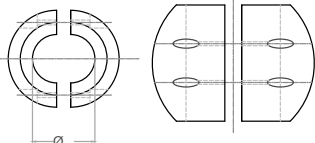
The next pages gives only a selection of types
we have available.

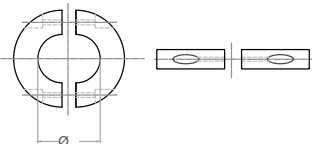
For contact scan QR-code



ZINC AND ALUMINIUM SPECIAL ANODES

ROD ANODES		
	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		
	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		
	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		
	Different types of Zinc Pencil Anodes and Brass plugs are available on request	

BACKING SHEETS		
	For some types of Bolt-on Anodes, there are Neoprene backing pads available	

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Fax +31 (0) 345-633344
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Info@ampak.de

Other specifications are available on request

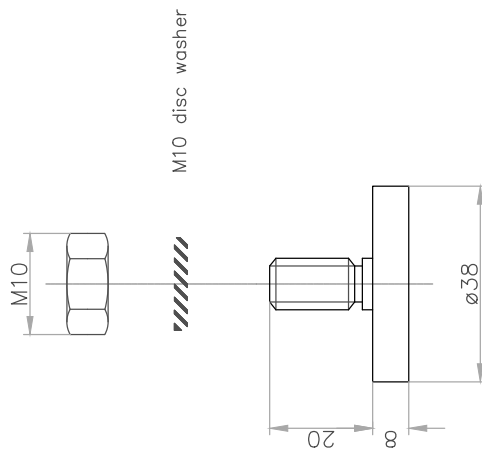
Note: All dimensions and weights are nominal. Dimension in mm
All data is subject to change without prior notice
Anode can also be provided with a coated backside

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

ZINC AND ALUMINIUM SPECIAL ANODES

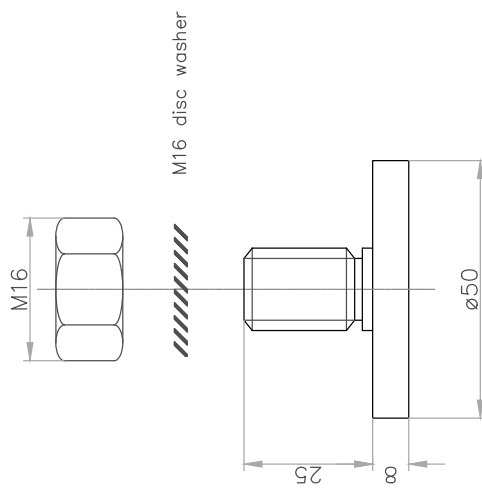
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type M10C



Art.N°: 922703000 (mild steel)
922707000 (Stainless Steel)

type M16C



Art.N°: 922704000 (mild steel)
922708000 (Stainless Steel)

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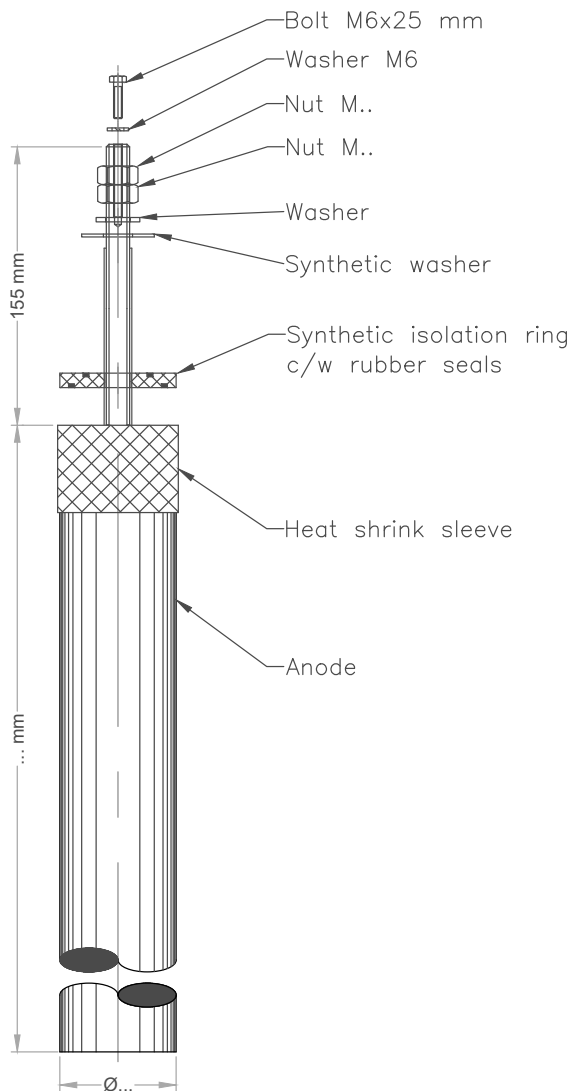
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drawn:	Dwg. No.: S 7570
date:	Dim.: A-4

Plate headed stud assemblies

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... pcs Cu anode : diameter Ø... mm x lenght ... mm
 ... pcs Fe anode : diameter Ø... mm x lenght ... 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

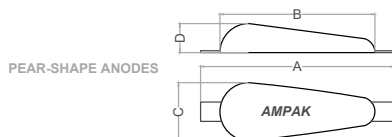
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drawn:	Dwg. No.: S 10945
date:	Dim.: A-4

REPLACEMENT ANTIFOULING CU/FE ANODE

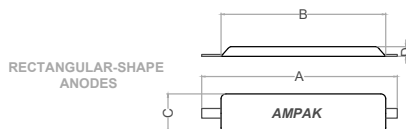
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MAGNESIUM HULL ANODES



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: n.t.s. Art. No.:
drawn: Dwg. No.: S 11079
date: Dim.: A-4

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.

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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.



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