

Aluform Watertight Enclosures Product Drawings Last Updated 9/29/2008

Rose+Bopla Enclosures
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Frederick, MD 21704
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Dimensional Drawings

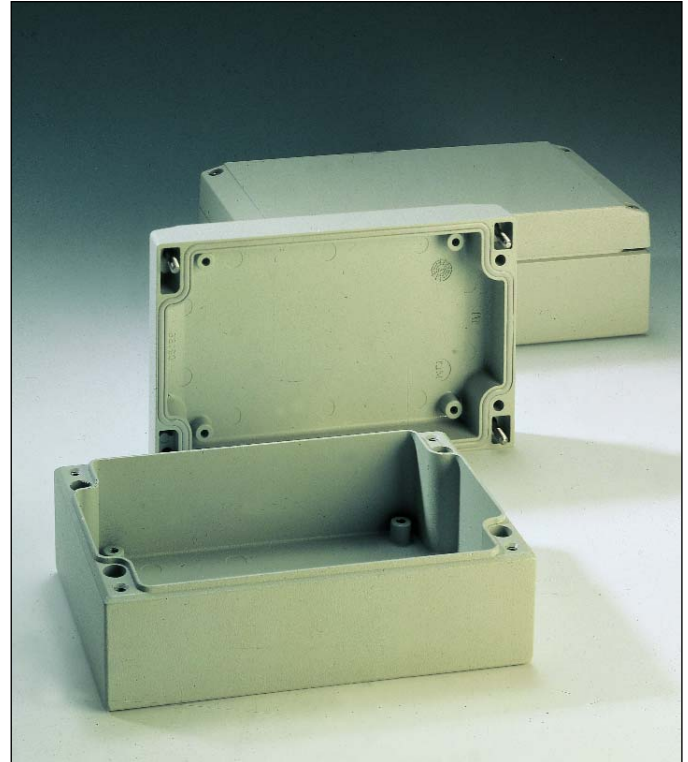
This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Rose+Bopla's **Aluform Enclosures** are stylish, aluminum die-cast housings specifically designed for rugged electronic instrumentation applications.

Aluform Watertight Enclosures

Aluform enclosures feature an attractive beveled lid and are designed with a lower profile height than Rose+Bopla's standard 01 series housings. Internal mounting bosses in the base and lid provide convenience for component installation. New hinges, and one-piece external brackets are available as options.

An Aluform enclosure includes a powdercoat painted die-cast base and lid, captive stainless steel lid screws and a polyurethane gasket as the standard configuration. The unpainted version comes with a neoprene gasket.



Aluform Watertight Aluminum Enclosures—Painted					
Part Number	Length (Inches/mm)	Width (Inches/mm)	Height (Inches/mm)	Weight	Drawing Page #
04080808 00	3.15 / 80	3.15 / 80	3.19 / 81	0.93 lbs	17-24
04081208 00	4.72 / 120	3.15 / 80	3.19 / 81	1.15 lbs	17-25
04101006 00	3.94 / 100	3.94 / 100	2.40 / 61	1.10 lbs	17-25
04101606 00	3.94 / 100	6.30 / 160	2.40 / 61	1.54 lbs	17-26
04102006 00	3.94 / 100	7.87 / 200	2.40 / 61	1.76 lbs	17-26
04121208 00	4.72 / 120	4.72 / 120	3.19 / 81	1.48 lbs	17-27
04121608 00	4.72 / 120	6.30 / 160	3.19 / 81	1.83 lbs	17-27
04141407 00	5.51 / 140	5.51 / 140	2.80 / 71	1.76 lbs	17-28
04141807 00	8.66 / 220	5.51 / 140	2.80 / 71	1.99 lbs	17-28
04142207 00	8.66 / 220	5.51 / 140	2.80 / 71	2.43 lbs	17-29
04161608 00	6.30 / 160	6.30 / 160	3.19 / 81	2.54 lbs	17-29
04162408 00	9.45 / 240	6.30 / 160	3.19 / 81	3.20 lbs	17-30
04202007 00	7.87 / 200	7.87 / 200	2.80 / 71	2.87 lbs	17-30
04202807 00	7.87 / 200	11.02 / 280	2.80 / 71	3.31 lbs	17-31

Aluform Watertight Aluminum Enclosures—Unpainted					
Part Number	Length (Inches/mm)	Width (Inches/mm)	Height (Inches/mm)	Weight	Drawing Page #
04080808 85	3.15 / 80	3.15 / 80	3.19 / 81	0.93 lbs	17-24
04081208 85	4.72 / 120	3.15 / 80	3.19 / 81	1.15 lbs	17-25
04101006 85	3.94 / 100	3.94 / 100	2.40 / 61	1.10 lbs	17-25
04101606 85	6.30 / 160	3.94 / 100	2.40 / 61	1.54 lbs	17-26
04102006 85	7.87 / 200	3.94 / 100	2.40 / 61	1.76 lbs	17-26
04121208 85	4.72 / 120	4.72 / 120	3.19 / 81	1.48 lbs	17-27
04121608 85	6.30 / 160	4.72 / 120	3.19 / 81	1.83 lbs	17-27
04141407 85	5.51 / 140	5.51 / 140	2.80 / 71	1.76 lbs	17-28
04141807 85	7.09 / 180	5.51 / 140	2.80 / 71	1.99 lbs	17-28
04142207 85	8.66 / 220	5.51 / 140	2.80 / 71	2.43 lbs	17-29
04161608 85	6.30 / 160	6.30 / 160	3.19 / 81	2.54 lbs	17-29
04162408 85	9.45 / 240	6.30 / 160	3.19 / 81	3.20 lbs	17-30
04202007 85	7.87 / 200	7.87 / 200	2.80 / 71	2.87 lbs	17-30
04202807 85	11.02 / 280	7.87 / 200	2.80 / 71	3.31 lbs	17-31

Note: Dimensions are external. Metric is the primary dimension. Inch conversions and weights are for the user's convenience and are for reference only. Accessories shown on drawing page.

TECHNICAL DATA:

- Color: Powdercoated Version—Agate Gray similar to RAL 7038. Special colors are available. See paint specifications in the Technical Information Chapter.
Unpainted Version—Bare Aluminum.
- Material: Aluminum, AL Si 12. See Aluminum specification sheets in the Technical Information Chapter.
- Gasket Temperature Range:
Neoprene Gasket –40°F to +212°F
Polyurethane Foam Gasket –40°F to +194°F
Silicone Gasket –76°F to +266°F
RFI Gasket –40°F to +392°F
- Impact Resistance: >7Nm, EN50014
- Approvals: File #66473, UL 50, UL508
- Captive Lid Screws
- Protection Classifications:
NEMA Types: up to Nema 4X
IP 66, EN 60529

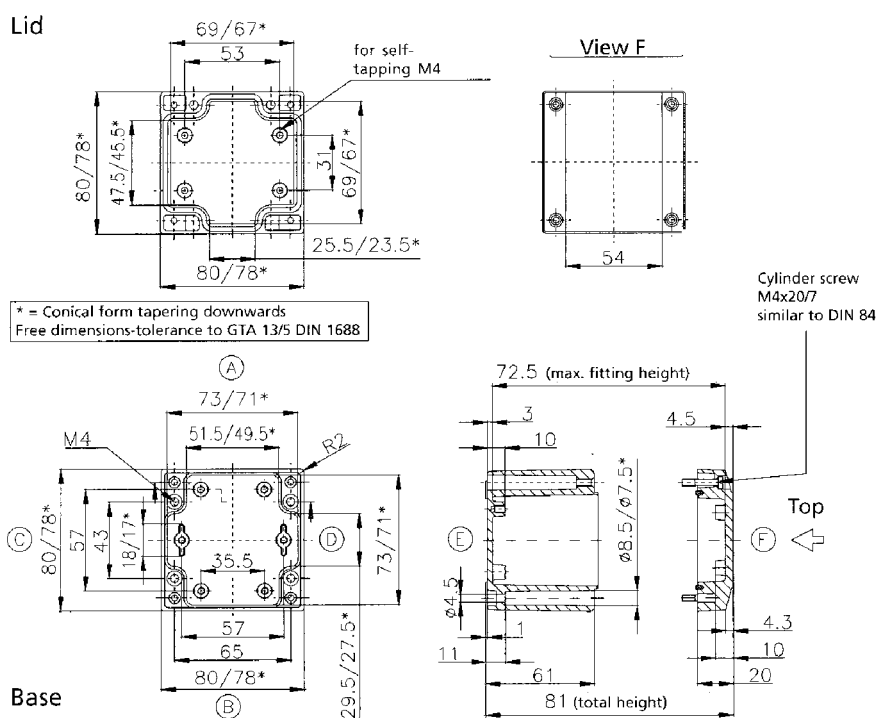


Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (14" length). Polyurethane gasket for painted version.

Accessories

- 04000080 00 External Mounting Bars.
- 10011060 00 Mounting Plates.





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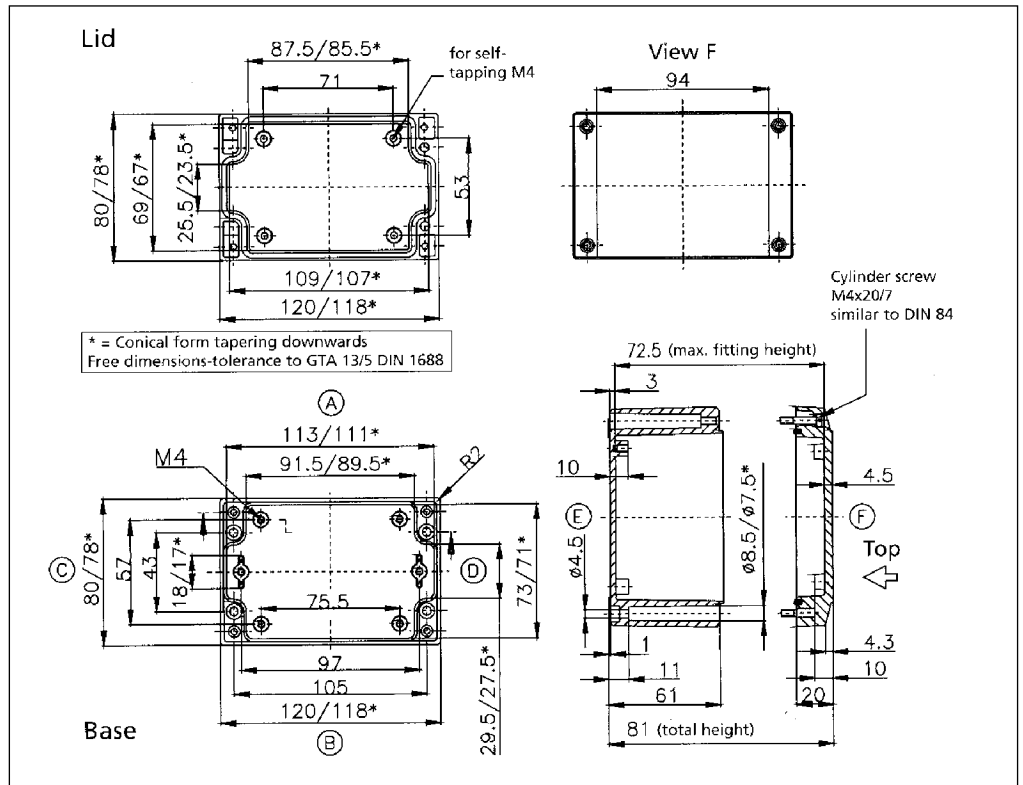
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04081208 00/85

External Dimensions: L 80 x W 120 x H 81 mm

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Standard Features
• 10093132 00 M4x20 Stainless steel captive combo head lid screws. • 10082003 00 3.3mm Neoprene Gasket for unpainted enclosures (20" length). Polyurethane gasket for painted version.
Accessories
• 04000080 00 External Mounting Bars. • 10011061 00 Mounting Plates. • 04000100 00 External Mounting Brackets. • 04000010 85 Unpainted External Hinges. • 04000010 00 Painted External Hinges. • 10082013 00 3.3mm Silicone gasket. • 10082022 00 3mm RFI gasket.

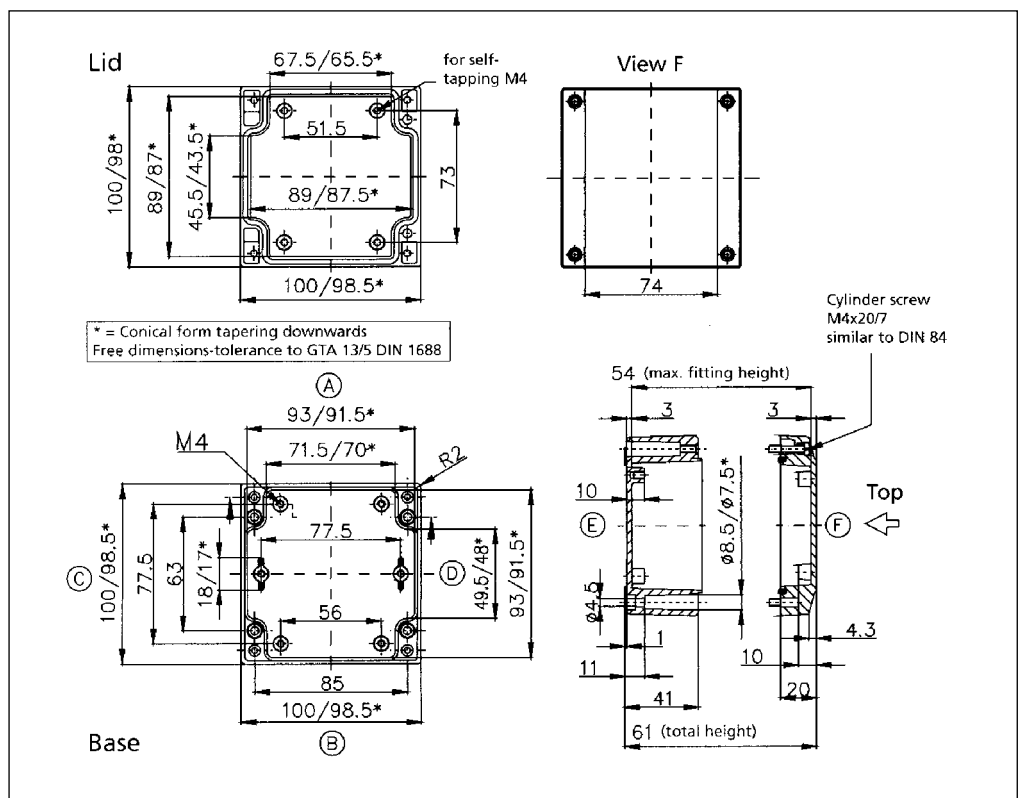


04101006 00/85

External Dimensions: L 100 x W 100 x H 61 mm

Page 1-7

Standard Features
• 10093132 00 M4x20 Stainless steel captive combo head lid screws. • 10082003 00 3.3mm Neoprene Gasket for unpainted enclosures (14" length). Polyurethane gasket for painted version.
Accessories
• 10011031 00 Mounting Plates. • 10061041 00 Terminal Rail (TS 15). • 10061471 00 Terminal Rail (TS 35). • 04000100 00 External Mounting Brackets. • 04000010 85 Unpainted External Hinges. • 04000010 00 Painted External Hinges. • 10082013 00 3.3mm Silicone gasket. • 10082022 00 3mm RFI gasket. • 0430009 00 Enclosure holder 98mm wide.



Dimensional Drawings

04101606 00/85

External Dimensions: L 160 x W 100 x H 61 mm

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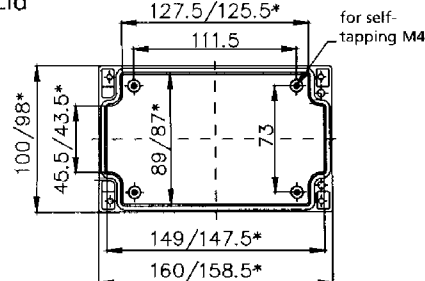
Standard Features

- 10093132 00 M4x20 Stainless steel captive combo head lid screws.
- 10082003 00 3.3mm Neoprene Gasket for unpainted enclosures (20" length). Polyurethane gasket for painted version.

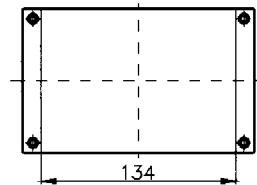
Accessories

- 10011032 00 Mounting Plates.
- 10061042 00 Terminal Rail (TS 15).
- 10061472 00 Terminal Rail (TS 35).
- 04000100 00 External Mounting Brackets.
- 04000010 85 Unpainted External Hinges.
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- 10082013 00 3.3mm Silicone gasket.
- 10082022 00 3mm RFI gasket.
- 04300009 00 Enclosure holder 98mm wide.

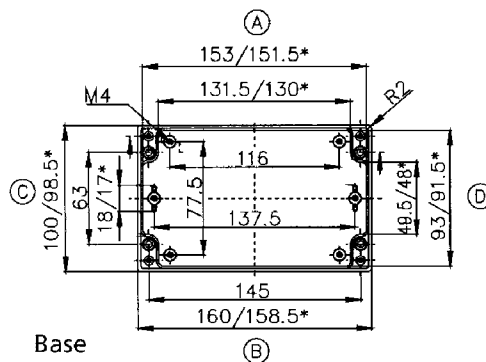
Lid



View F

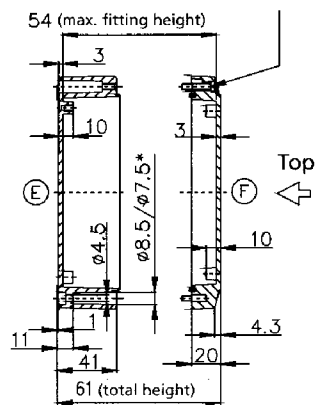


* = Conical form tapering downwards
Free dimensions-tolerance to GTA 13/5 DIN 1688



Base

Cylinder screw
M4x20/7
similar to DIN 84



04102006 00/85

External Dimensions: L 200 x W 100 x H 61 mm

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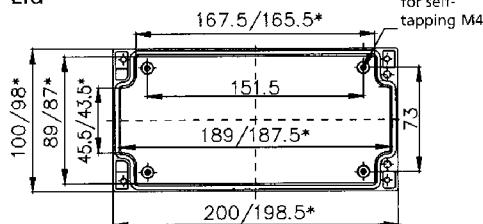
Standard Features

- 10093132 00 M4x20 Stainless steel captive combo head lid screws.
- 10082003 00 3.3mm Neoprene Gasket for unpainted enclosures (22" length). Polyurethane gasket for painted version.

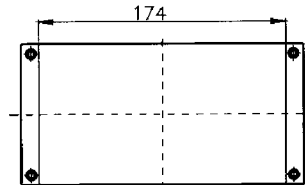
Accessories

- 10011033 00 Mounting Plates.
- 10061043 00 Terminal Rail (TS 15).
- 10061473 00 Terminal Rail (TS 35).
- 04000100 00 External Mounting Brackets.
- 04000010 85 Unpainted External Hinges.
- 04000010 00 Painted External Hinges.
- 10082013 00 3.3mm Silicone gasket.
- 10082022 00 3mm RFI gasket.
- 04300009 00 Enclosure holder 98mm wide.

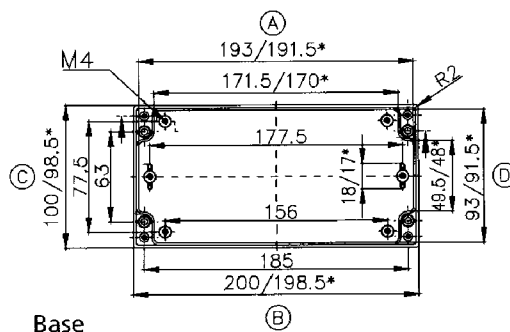
Lid



View F

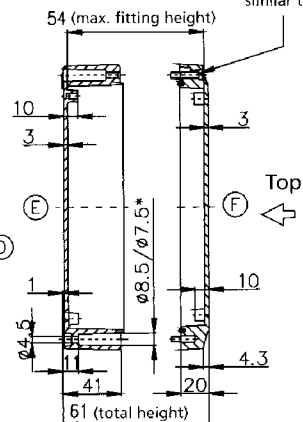


* = Conical form tapering downwards
Free dimensions-tolerance to GTA 13/5 DIN 1688



Base

Cylinder screw
M4x20/7
similar to DIN 84





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04121208 00/85

External Dimensions: L 120 x W 160 x H 81 mm

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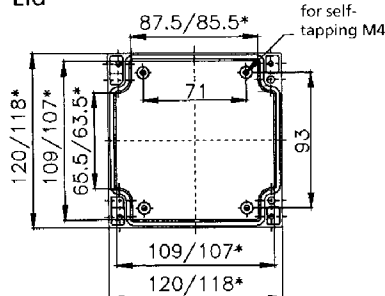
Standard Features

- 10093132 00 M4x20 Stainless steel captive combo head lid screws.
- 10082003 00 3.3mm Neoprene Gasket for unpainted enclosures (20" length). Polyurethane gasket for painted version.

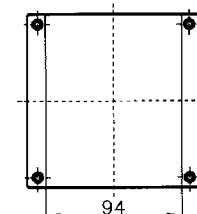
Accessories

- 04000120 00 External Mounting Bars
- 10011062 00 Mounting Plates
- 04000010 85 Unpainted External Hinges.
- 04000010 00 Painted External Hinges.
- 10082013 00 3.3mm Silicone gasket.
- 10082022 00 3mm RFI gasket.

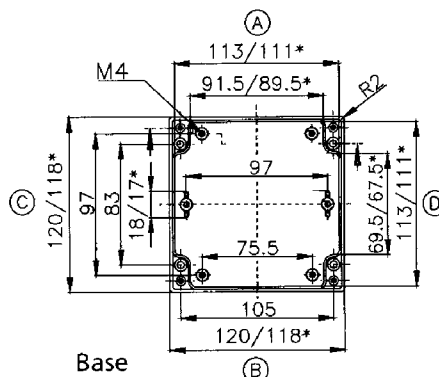
Lid



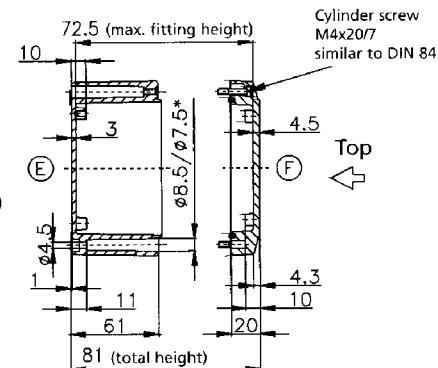
View F



* = Conical form tapering downwards
Free dimensions-tolerance to GTA 13/5 DIN 1688



Base



04121608 00/85

External Dimensions: L 120 x W 160 x H 81 mm

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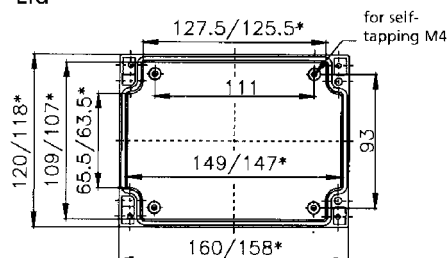
Standard Features

- 10093132 00 M4x20 Stainless steel captive combo head lid screws.
- 10082003 00 3.3mm Neoprene Gasket for unpainted enclosures (20" length). Polyurethane gasket for painted version.

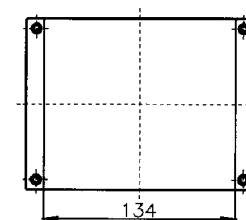
Accessories

- 04000120 00 External Mounting Bars.
- 10011063 00 Mounting Plates.
- 04000010 85 Unpainted External Hinges.
- 04000010 00 Painted External Hinges.
- 10082013 00 3.3mm Silicone gasket.
- 10082022 00 3mm RFI gasket.

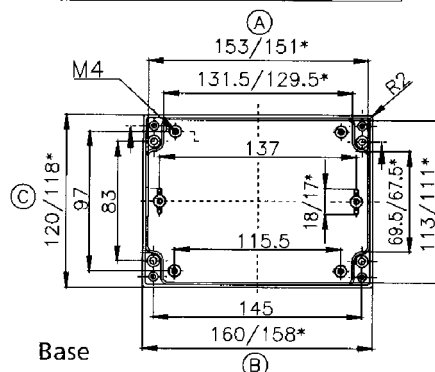
Lid



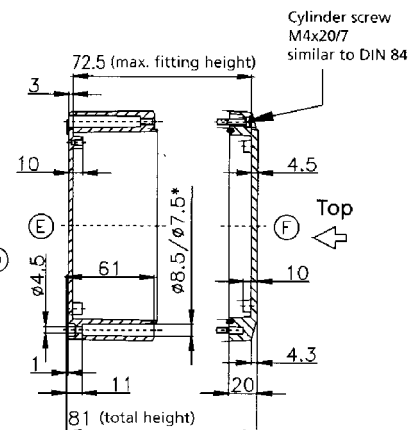
View F



* = Conical form tapering downwards
Free dimensions-tolerance to GTA 13/5 DIN 1688



Base



Dimensional Drawings

04141407 00/85

External Dimensions: L 140 x W 140 x H 71 mm

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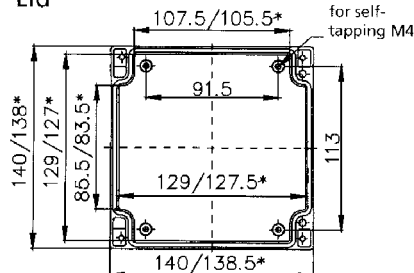
Standard Features

- 10093132 00 M4x20 Stainless steel captive combo head lid screws.
- 10082003 00 3.3mm Neoprene Gasket for unpainted enclosures (20" length). Polyurethane gasket for painted version.

Accessories

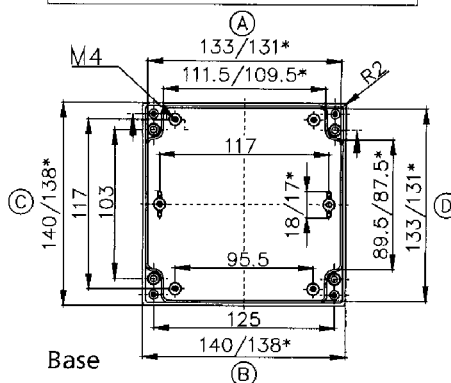
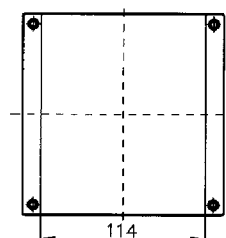
- 10011034 00 Mounting Plates.
- 10061044 00 Terminal Rail (TS 15).
- 10061474 00 Terminal Rail (TS 35).
- 04000140 00 External Mounting Brackets.
- 04000010 85 Unpainted External Hinges.
- 04000010 00 Painted External Hinges.
- 10082013 00 3.3mm Silicone gasket.
- 10082022 00 3mm RFI gasket.
- 04300014 00 Enclosure holder 138mm wide.

Lid



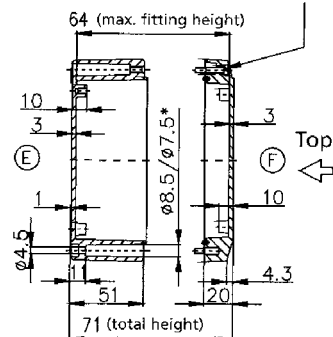
* = Conical form tapering downwards
Free dimensions-tolerance to GTA 13/5 DIN 1688

View F



Base

Cylinder screw
M4x20/7
similar to DIN 84



04141807 00/85

External Dimensions: L 180 x W 140 x H 71 mm

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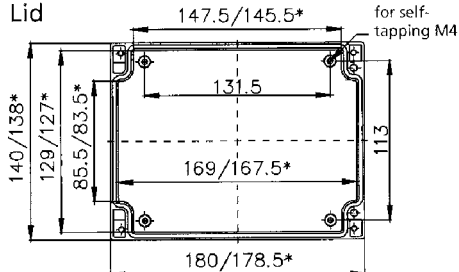
Standard Features

- 10093132 00 M4x20 Stainless steel captive combo head lid screws.
- 10082003 00 3.3mm Neoprene Gasket for unpainted enclosures (24" length). Polyurethane gasket for painted version.

Accessories

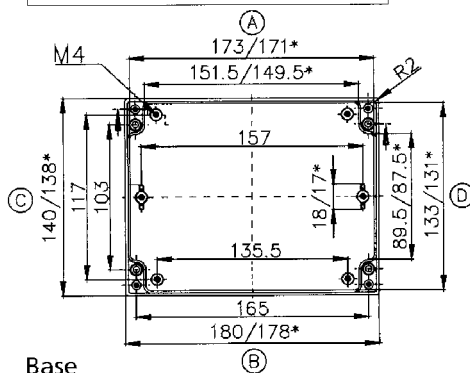
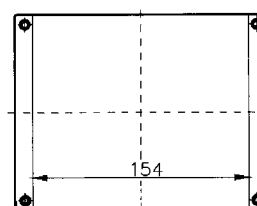
- 10011035 00 Mounting Plates.
- 10061045 00 Terminal Rail (TS 15).
- 10061475 00 Terminal Rail (TS 35).
- 04000140 00 External Mounting Brackets.
- 04000010 85 Unpainted External Hinges.
- 04000010 00 Painted External Hinges.
- 10082013 00 3.3mm Silicone gasket.
- 10082022 00 3mm RFI gasket.
- 04300014 00 Enclosure holder 138mm wide.

Lid



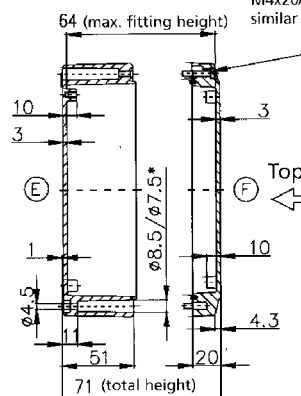
* = Conical form tapering downwards
Free dimensions-tolerance to GTA 13/5 DIN 1688

View F



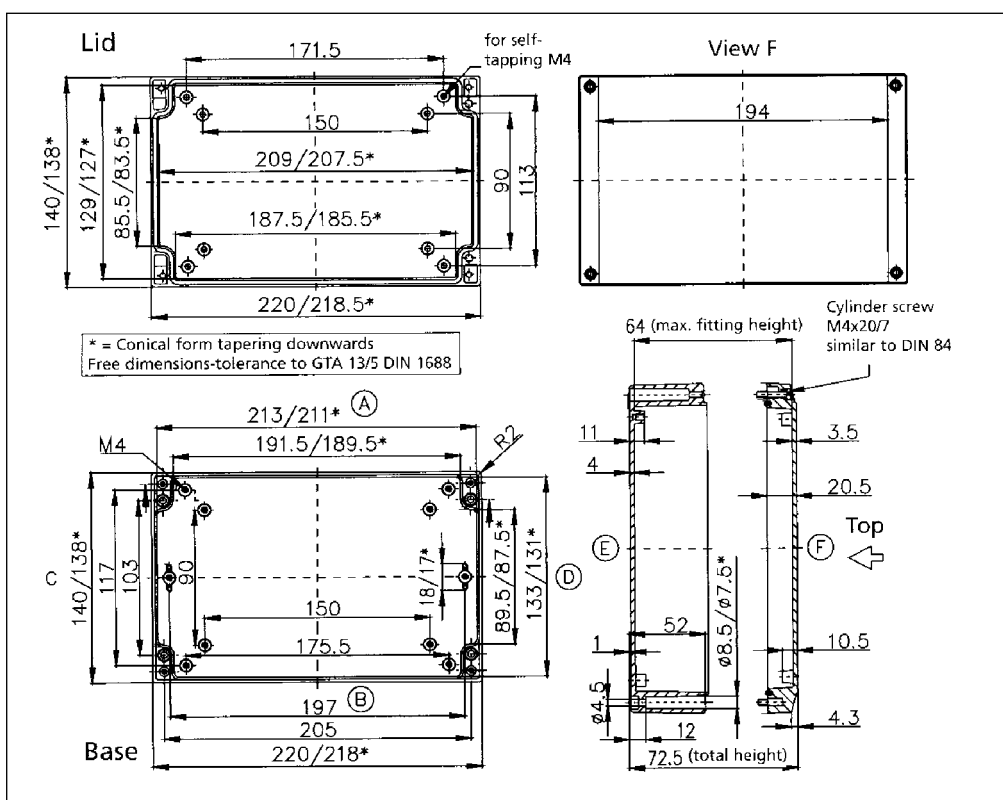
Base

Cylinder screw
M4x20/7
similar to DIN 84



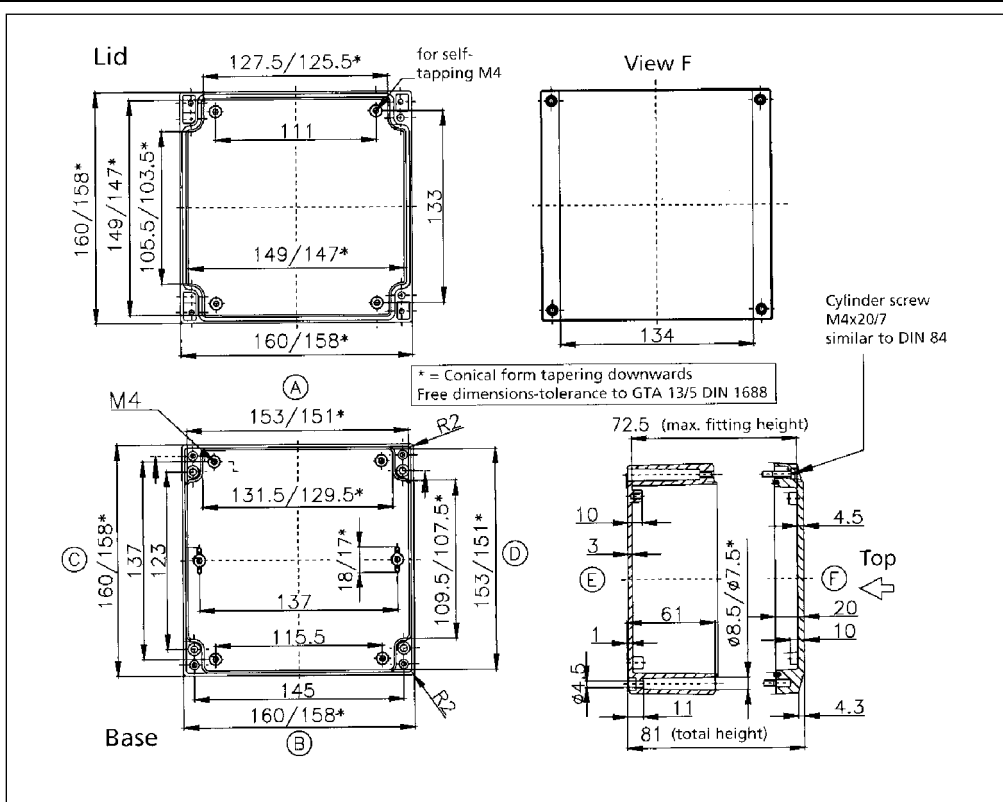
Page 1-7

Standard Features
• 10093132 00 M4x20 Stainless steel captive combo head lid screws. • 10082003 00 3.3mm Neoprene Gasket for unpainted enclosures (28" length). Polyurethane gasket for painted version.
Accessories
• 10011036 00 Mounting Plates. • 10061046 00 Terminal Rail (TS 15). • 10061476 00 Terminal Rail (TS 35). • 04000140 00 External Mounting Brackets. • 04000010 85 Unpainted External Hinges. • 04000010 00 Painted External Hinges. • 10082013 00 3.3mm Silicone gasket. • 10082022 00 3mm RFI gasket. • 04300014 00 Enclosure holder 138mm wide.



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Standard Features	
• 10093132 00	M4x20 Stainless steel captive combo head lid screws.
• 10082003 00	3.3mm Neoprene Gasket for unpainted enclosures (24" length). Polyurethane gasket for painted version.
Accessories	
• 04000160 00	External Mounting Bars.
• 10011064 00	Mounting Plates.
• 04000010 85	Unpainted External Hinges.
• 04000010 00	Painted External Hinges.
• 10082013 00	3.3mm Silicone gasket.
• 10082022 00	3mm RFI gasket.



04162408 00/85

External Dimensions: L160 x W240 x H81 mm

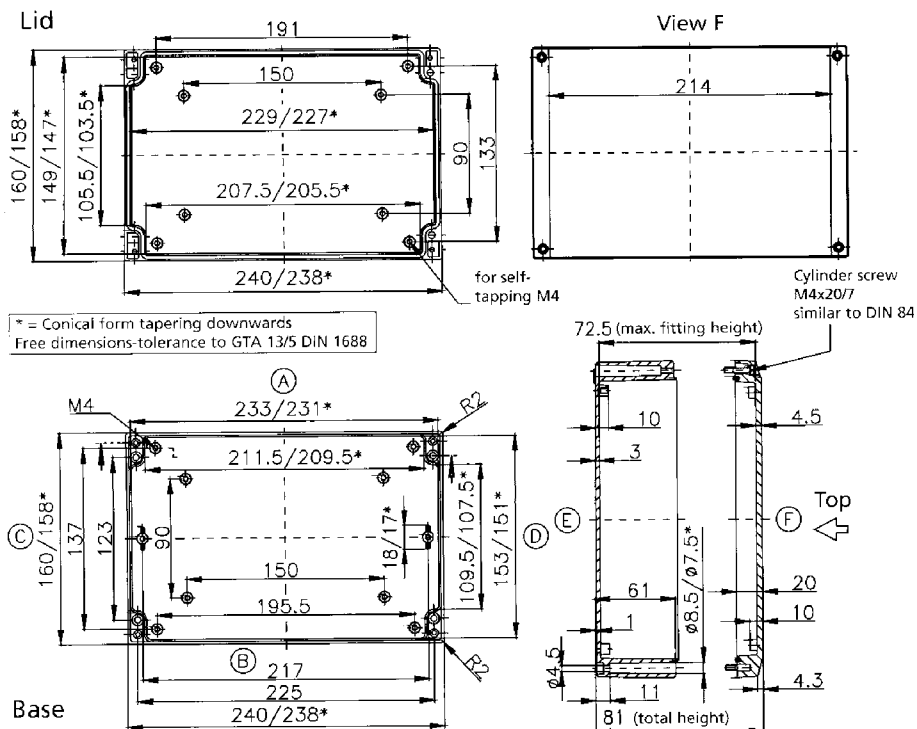
Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (28" length). Polyurethane gasket for painted version.

Accessories

- 04000120 00 External Mounting Bars.
- 10011065 00 Mounting Plates.
- 04000010 85 Unpainted External Hinges.
- 04000010 00 Painted External Hinges.
- 10082013 00 3.3mm Silicone gasket.
- 10082022 00 3mm RFI gasket.



04202007 00/85

External Dimensions: L200 x W200 x H71 mm

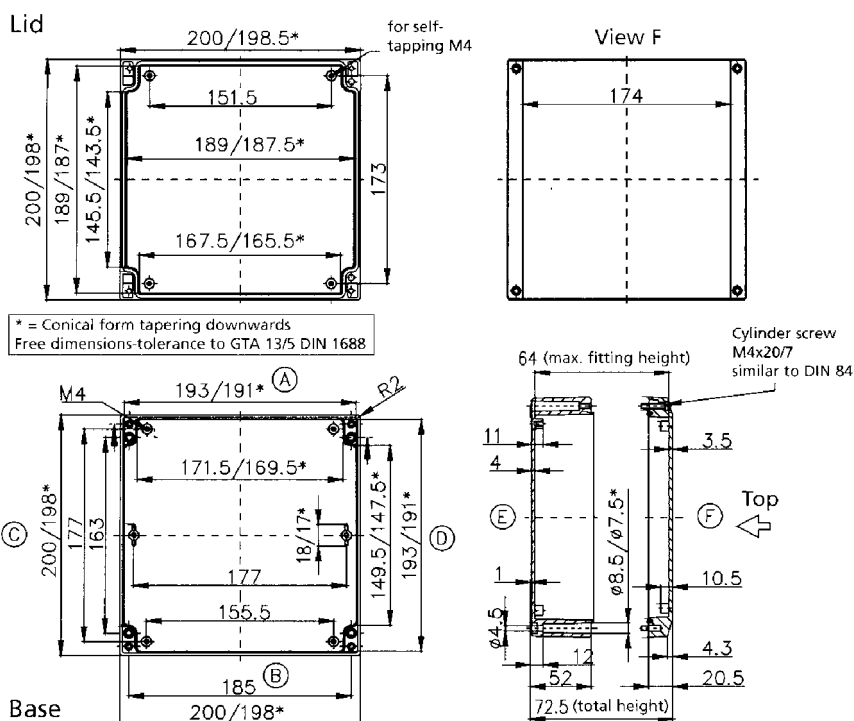
Page 1-7

Standard Features

- **10093132 00** M4x20 Stainless steel captive combo head lid screws.
- **10082003 00** 3.3mm Neoprene Gasket for unpainted enclosures (30" length). Polyurethane gasket for painted version.

Accessories

- 10011037 00 Mounting Plates.
- 10061043 00 Terminal Rail (TS 15).
- 10061473 00 Terminal Rail (TS 35).
- 04000200 00 External Mounting Brackets.
- 04000010 85 Unpainted External Hinges.
- 04000010 00 Painted External Hinges.
- 10082013 00 3.3mm Silicone gasket.
- 10082022 00 3mm RFI gasket.





04202807 00/85

External Dimensions: L280 x W200 x H71 mm

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Standard Features

- 10093132 00 M4x20 Stainless steel captive combo head lid screws.
- 10082003 00 3.3mm Neoprene Gasket for unpainted enclosures (33" length). Polyurethane gasket for painted version.

Accessories

- 10011059 00 Mounting Plates.
- 10061048 00 Terminal Rail (TS 15).
- 10061481 00 Terminal Rail (TS 35).
- 04000200 00 External Mounting Brackets.
- 04000010 85 Unpainted External Hinges.
- 04000010 00 Painted External Hinges.
- 10082013 00 3.3mm Silicone gasket.
- 10082022 00 3mm RFI gasket.

