

PRODUCT SPECIFICATION

Terminal Enclosures



Optimum surface protection

A "7-tank process" is simply a process where parts are immersed in seven tanks sequentially. Normally, the zinc phosphating process is done in 7 steps while the simpler iron phosphating pretreatment process is done in 3 steps or sometimes 5 steps.

**A. Plate with triple surface treatment (Werner Standard)
after a 180-hour salt spray mist test**

B. Metal powder-coated only following a 180-hour salt spray mist test



PU foam seal

- Seamlessly foamed-in
- Temperature resistant from -20°C to +80°C
- May be over-painted and briefly stove-enamelled at up to 180°C

Earthing

- Simple earthing and safe PE conductor connection to any side.
- via earthing bracket in cover.
- via earthing lugs in all four corners of the housing.
- The earthing kit, which has a cross-section of 4 mm², is designed specifically for terminal boxes. It reduces the amount of installation work, as all the carefully prepared parts required to earth the cover are already included.
- Earth straps in various cross-sections and lengths available as accessories.

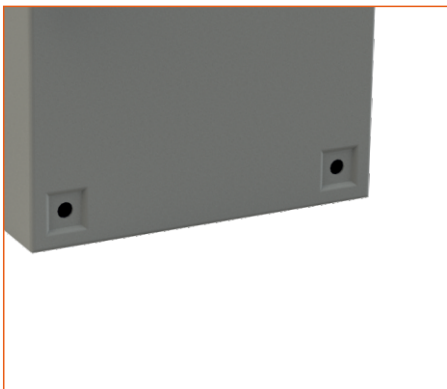
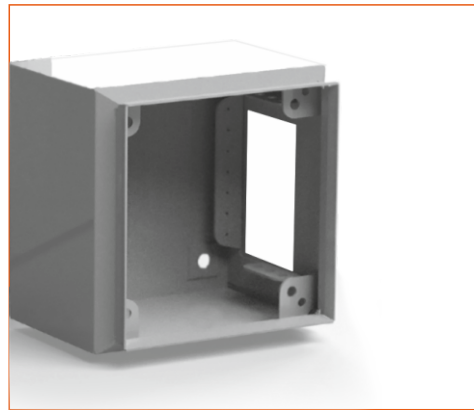


Housing protection channel

- Specifically designed to remove water, so that moisture does not collect against the seal.
- Housing return edge with continuous protection channel prevents the ingress of dust and dirt when the door is opened.
- Multi-folded protection channel also ensures a high level of stability with the housing fully opened.
- Additional protection for the high-quality PU foam seal.

Gland plate

- Large gland plates for straightforward handling and plenty of space for cable entry.
- May be exchanged for gland plates with metal or plastic knockouts for simple, fast cable routing.
- Optionally available with or without gland plates in the case of enclosures with a depth of 120 mm.

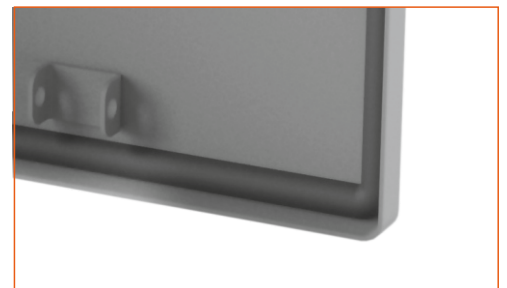


Wall mounting

- Rear panel holes with square knockouts facilitate the twist- proof attachment of wall brackets.
- Any unused rear panel holes can be blanked off with sealing plugs.
- Enclosures can also be mounted directly on walls from inside through the rear panel holes.

Cover

- The cover is secured using fasteners as standard.
- Providing optimum compression of the cover seal
- The fasteners are securely guided in nuts, which makes even overhead installation very simple.
- Cover hinges for user-friendly servicing when components are installed in the enclosure and cover as accessories.



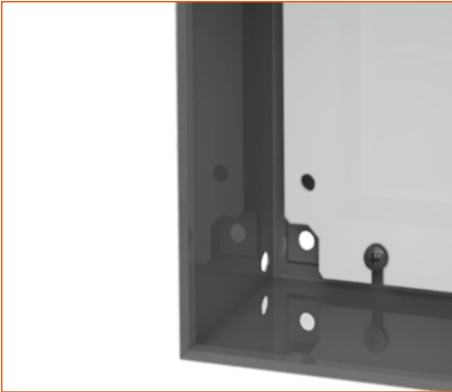
Interior configuration

- Side panels with 25 mm system punching integrated into the enclosure offer the highest levels of flexibility when configuring the interior.
- Punched profile strips for optional configuring with mounting plate or support rail.
- Having a mounting clearance of 14 mm between the installed components and the rear panel allows terminals, for example, to be snapped on easily and permits cables to be routed underneath support rails.
- Compatible earthing concepts for all components.



Special lock system

The special lock system is fully integrated into the electrical protection measures. The standard double-bit lock insert is readily exchanged for any commercially available lock insert,

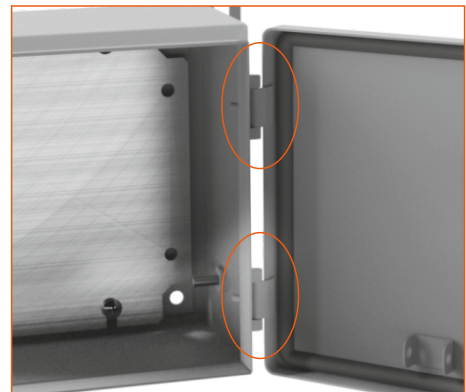


Mounting plate

The supplied zinc-plated mounting plate can be removed and re-installed in a flash, and permits direct contacting of equipment.

90°, 120° & 180° Hinge

Electronic Enclosure is fitted with 90°, 120° & 180° Hinge for easy access



91 Series Terminal Boxes

**Material:**

- Enclosure: Sheet steel
- Cover: Sheet steel, all-round foamed-in PU seal.

Surface finish:

- Enclosure and Cover: Wash & Phosphate Undercoat Structure finish.

Colour:

- RAL 7035

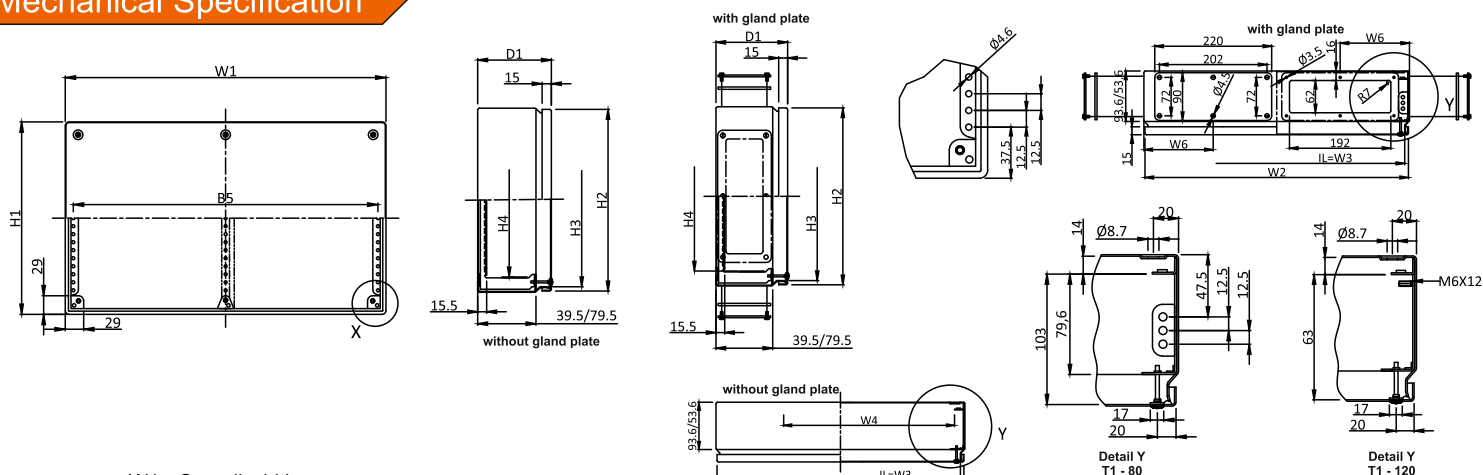
Protection category IP:

- IP 55 & IP 66

Supply includes:

- Enclosure with Cover– Screw fastener including cover plugs & dummy plugs.
- Without Mounting Plate, with or without Gland Plate.

Mechanical Specification



W1 - Overall width
W2 - Cover width
W3 - Clearance width of enclosure
W4 - Clearance/width between profile strips
W5 - Distance between axes of the mounting holes in the profile strips
W6 - Distance from outer edge of enclosure – centre of gland plate

H1 - Overall height
H2 - Cover height
H3 - Clearance height of enclosure
H4 - Clearance frame/height between profile strips
T1 - Overall depth

1 Only with W ≥ 600 mm
2 Only with W = 800 mm
3 Drilled hole does not apply to stainless steel version
i.L. - Clearance width

Model No.			Width dimensions (mm)						Height dimensions (mm)				Depth dimensions (mm)
with out gland plate	with gland plate	Stainless steel without gland plate	W1	W2	W3	W4	W5	W6	H1	H2	H3	H4	
91.1514.510	●	91.1521.010	150	148	132	109	125	●	150	148	132	●	80
91.1528.510	●	●	200	198	182	159	175	●	150	148	132	●	80
91.1516.510	●	91.1523.010	200	198	182	159	175	●	200	198	182	●	80
91.1515.510	●	91.1522.010	300	298	282	259	275	●	150	148	132	●	80
91.1517.510	●	91.1524.010	300	298	282	259	275	●	200	198	182	●	80
91.1518.510	●	●	400	398	382	359	375	●	200	198	182	●	80
91.1519.510	●	●	600	598	582	559	575	●	200	198	182	●	80
91.1500.510	●	91.1527.010	150	148	132	109	125	●	150	148	132	100	120
91.1529.510	●	●	200	198	182	159	175	●	150	148	132	100	120
91.1502.510	●	91.1528.010	200	198	182	159	175	●	200	198	182	150	120
91.1501.510	91.1530.510	●	300	298	282	259	275	150	150	148	132	100	120
91.1503.510	91.1531.510	91.1529.010	300	298	282	259	275	150	200	198	182	150	120
91.1507.510	91.1535.510	91.1526.010	300	298	282	259	275	150	300	298	282	250	120
91.1589.510	●	●	400	398	382	359	375	●	150	148	132	100	120
91.1504.510	91.1532.510	91.1525.010	400	398	382	359	375	200	200	198	182	150	120
91.1508.510	91.1536.510	91.1530.010	400	398	382	359	375	200	300	298	282	250	120
91.1511.510	91.1539.510	●	400	398	382	359	375	200	400	398	382	350	120
91.1505.510	91.1533.510	●	500	498	482	459	475	130	200	198	182	150	120
91.1509.510	91.1537.510	●	500	498	482	459	475	130	300	298	282	250	120
91.1506.510	91.1534.510	●	600	598	582	559	575	150	200	198	182	150	120
91.1510.510	91.1538.510	●	600	598	582	559	575	150	300	298	282	250	120
91.1512.510	91.1540.510	●	600	598	582	559	575	150	400	398	382	350	120
91.1527.510	91.1542.510	●	800	798	782	759	775	150	200	198	182	150	120
91.1513.510	91.1541.510	●	800	798	782	759	775	150	400	398	382	350	120



92 Series Electronic Box

Material:

- Enclosure: Sheet steel
- Door: Sheet steel, all-round foamed-in PU seal.

Surface finish:

- Enclosure and Door: Wash & Phosphate Undercoat Structure finish.

Colour:

- RAL 7035

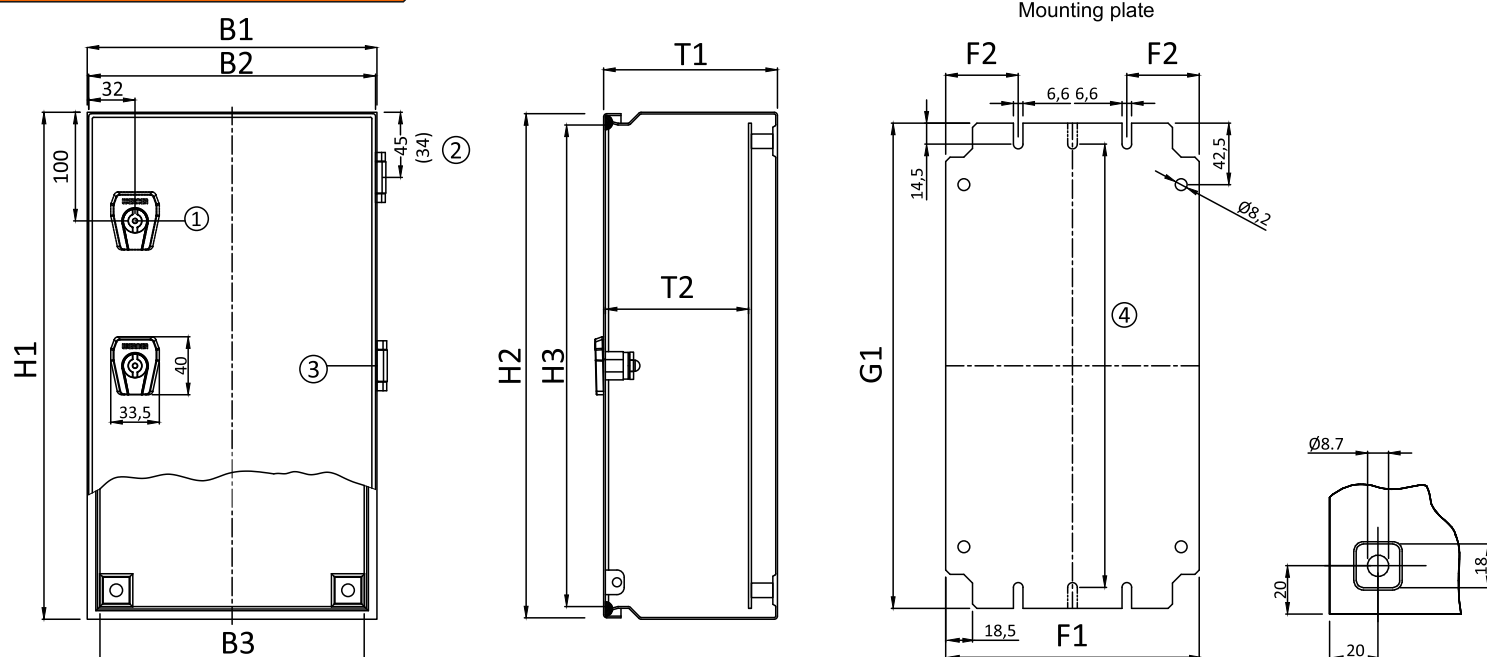
Protection category IP:

- IP 66

Supply includes:

- Enclosure with hinged door 180° hinge & dummy plugs.
- Cam lock arrangement with Mounting plate, without gland plate.

Mechanical Specification



① = For height ≥ 500 , two locks

② = For 92.1551.500 & 92.1579.500

③ = Only for 92.1579.500

④ = For 125mm wide mounting plates, attachment is in the center only

B1 = Overall width

B2 = Door width

B3 = Clearance width of enclosure

H1 = Overall height

H2 = Door height

H3 = Clearance height of enclosure

T1 = Overall depth

T2 = Clearance depth available for installation

F1 = Mounting plate width

F2 = Outer edge to center mounting holes

G1 = Mounting plate height

Model No.	Width dimensions mm			Height dimensions mm			Depth dimensions mm		Mounting plate dimensions mm		
	B1	B2	B3	H1	H2	H3	T1	T2	F1	F2	G1
92.1551.500	150	148	132	150	148	132	80	65	125	62.5	135
92.1545.500	150	148	132	300	298	282	80	65	125	62.5	285
92.1546.500	200	198	182	200	198	182	80	65	175	50	185
92.1552.500	200	198	182	300	298	282	80	65	175	50	285
92.1547.500	200	198	182	400	398	382	80	65	175	50	385
92.1553.500	150	148	132	150	148	132	120	105	125	62.5	135
92.1548.500	150	148	132	300	298	282	120	105	125	62.5	285
92.1549.500	200	198	182	200	198	182	120	105	175	50	185
92.1554.500	200	198	182	300	298	282	120	105	175	50	285
92.1550.500	200	198	182	400	398	382	120	105	175	50	385
92.1555.500	300	298	282	300	298	282	120	105	275	50	285
92.1556.500	300	298	282	400	398	382	120	105	275	50	385
92.1557.500	200	198	182	500	498	482	120	105	175	50	485
92.1577.500	300	298	282	400	398	382	155	140	275	50	385
92.1578.500	300	298	282	600	598	582	155	140	275	50	585
92.1579.500	300	298	282	800	798	782	155	140	275	50	785



94 Series Electronic Enclosure

Material:

- Enclosure: Sheet steel
- Door: Sheet steel, all-round foamed-in PU seal.

Surface finish:

- Enclosure and Door: Wash & Phosphate Undercoat Structure finish.

Colour:

- RAL 7035

Protection category IP:

- IP 55

Supply includes:

- Enclosure with hinged door 120°, 180° & dummy plugs.
- Cam lock arrangement with Mounting plate, with gland plate.

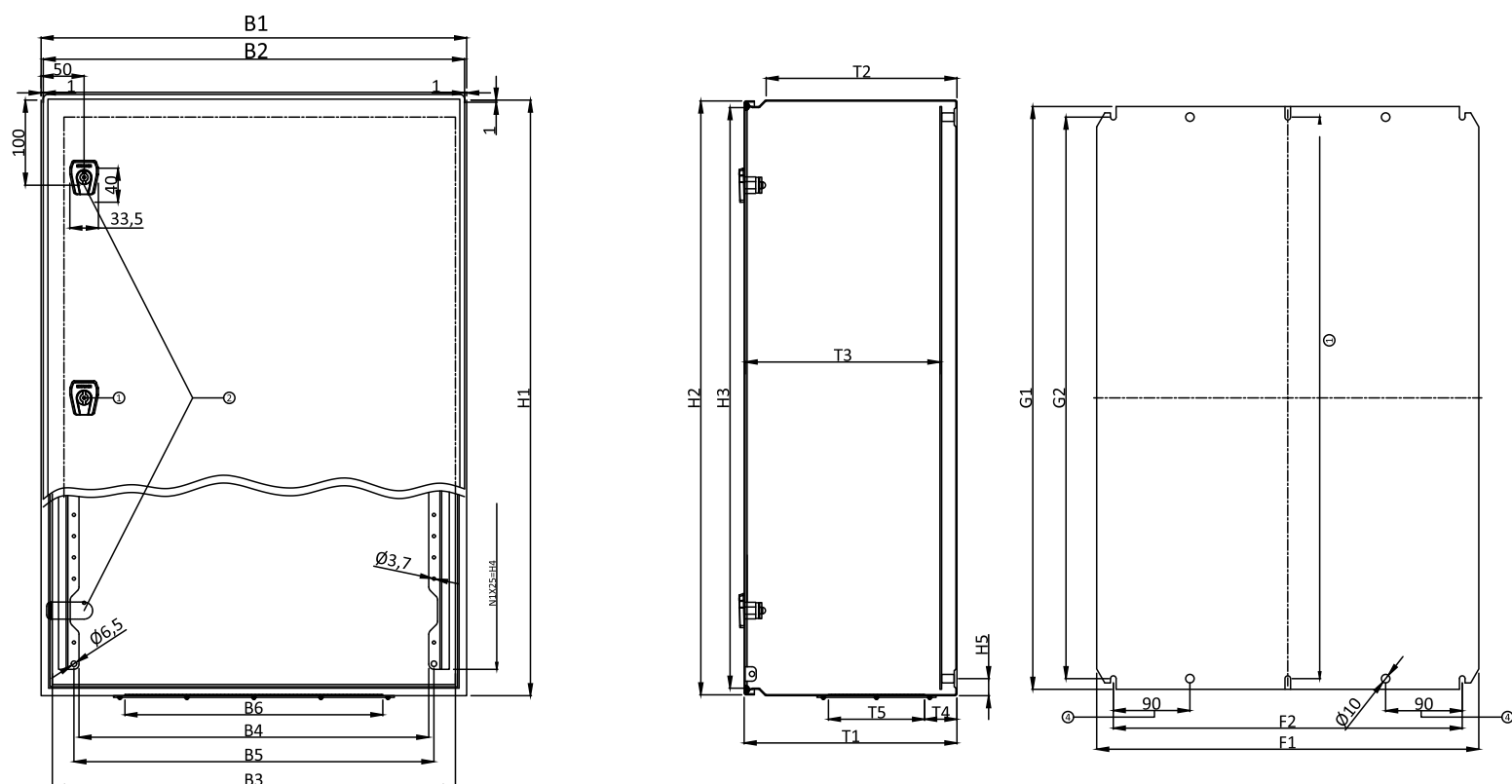
Model Selections

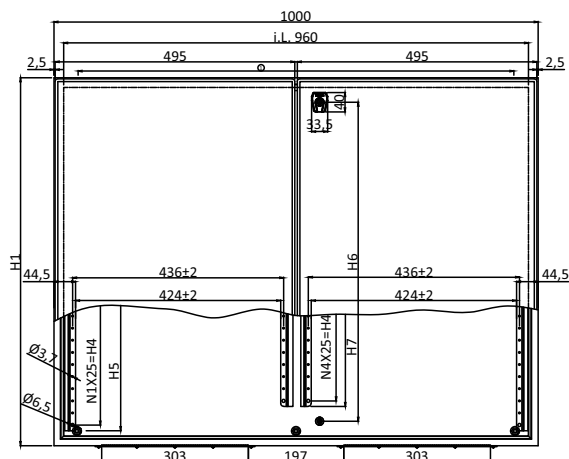
Model No.	Width dimensions (mm)						Height dimensions (mm)						Depth dimensions (mm)					Mounting plates (mm)			
Powder Coated	B1	B2	B3	B4	B5	B6	H1	H2	H3	H4	H5	N1	T1	T2	T3	T4	T5	F1	F2	G1	G2
94.1221.500	200	198	176.5	—	—	133	200	198	176.5	125	25	6	155	126	113-129	28	43	162	62	175	150
94.1222.500	200	198	176.5	—	—	133	300	298	276.5	225	25	9	120	91	78-94	28	43	162	62	275	250
94.1223.500	200	198	176.5	—	—	133	300	298	276.5	225	25	9	155	126	113-129	28	43	162	62	275	250
94.1224.500	250	248	226.5	164	176	183	300	298	276.5	225	25	9	155	126	113-129	28	43	212	112	275	250
94.1225.500	300	298	276.5	214	226	233	300	298	276.5	225	25	9	155	126	113-129	47	45	262	162	275	250
94.1226.500	300	298	276.5	214	226	233	300	298	276.5	225	25	9	210	181	168-184	43	45	262	162	275	250
94.1227.500	300	298	276.5	214	226	233	400	398	376.5	325	25	13	155	126	113-129	47	45	262	162	375	350
94.1228.500	300	298	276.5	214	226	233	400	398	376.5	325	25	13	210	181	168-184	43	45	262	162	375	350
94.1229.500	380	378	356.5	294	306	303	300	298	276.5	225	25	9	155	126	113-129	33	63	342	242	275	250
94.1230.500	380	378	356.5	294	306	303	300	298	276.5	225	25	9	210	181	168-184	33	63	342	242	275	250
94.1231.500	380	378	356.5	294	306	303	380	378	356.5	275	25	11	210	181	168-184	33	63	342	242	355	330
94.1232.500	400	398	376.5	314	326	303	300	298	276.5	225	25	9	155	126	113-129	47	45	362	262	275	250
94.1233.500	400	398	376.5	314	326	303	300	298	276.5	225	25	9	210	181	168-184	43	45	362	262	275	250
94.1234.500	400	398	376.5	314	326	303	400	398	376.5	325	25	13	155	126	113-129	47	45	362	262	375	350
94.1235.500	400	398	376.5	314	326	303	400	398	376.5	325	25	13	210	181	168-184	38	113	362	262	375	350
94.1236.500	400	398	376.5	314	326	303	500	498	476.5	425	25	17	155	126	113-129	47	45	362	262	475	450
94.1237.500	500	498	476.5	414	426	303	600	598	576.5	525	25	21	210	181	168-184	38	113	462	362	575	550
94.1238.500	500	498	476.5	414	426	303	700	698	676.5	625	25	25	300	271	258-274	38	113	462	362	675	650
94.1239.500	600	598	576.5	514	526	500	380	378	356.5	275	25	11	210	181	168-184	38	113	562	462	355	330
94.1240.500	600	598	576.5	514	526	500	380	378	356.5	275	25	11	350	321	308-324	38	113	562	462	355	330
94.1241.500	380	378	356.5	294	306	303	600	598	576.5	525	25	21	210	181	168-184	33	63	342	242	575	550
94.1242.500	380	378	356.5	294	306	303	600	598	576.5	525	25	21	350	321	308-324	84	113	342	242	575	550
94.1243.500	400	398	376.5	314	326	303	500	498	476.5	425	25	17	210	181	168-184	38	113	362	262	475	450
94.1244.500	400	398	376.5	314	326	303	600	598	576.5	525	25	21	210	181	168-184	38	113	362	262	575	550
94.1245.500	400	398	376.5	314	326	303	800	798	776.5	725	25	29	300	271	258-274	38	113	362	262	775	750
94.1246.500	500	498	476.5	414	426	303	500	498	476.5	425	25	17	210	181	168-184	38	113	462	362	475	450
94.1247.500	500	498	475.5	414	426	303	500	498	476.5	425	25	17	300	271	258-274	38	113	462	362	475	450
94.1248.500	500	498	476.5	414	426	303	700	698	676.5	625	25	27	250	221	208-224	38	113	462	362	675	650
94.1249.500	600	598	576.5	514	526	523	500	498	476.5	425	25	17	210	181	168-184	38	113	562	462	475	450
94.1250.500	600	598	576.5	514	526	523	600	598	576.5	525	25	21	210	181	168-184	38	113	562	462	575	550
94.1251.500	600	598	576.5	514	526	500	600	598	576.5	525	25	21	250	221	208-224	38	113	562	462	575	550
94.1252.500	600	598	576.5	514	526	500	600	598	576.5	525	25	21	350	321	308-324	38	113	562	462	575	550
94.1253.500	600	598	576.5	514	526	500	700	689	676.5	675	25	25	210	181	168-184	38	113	562	462	675	650
94.1254.500	600	598	576.5	514	526	500	760	758	736.5	675	25	27	210	181	168-184	38	113	562	462	735	710
94.1255.500	600	598	576.5	514	526	500	760	758	736.5	675	25	27	350	321	308-324	38	113	562	462	735	710
94.1256.500	600	598	576.5	514	526	500	800	798	776.5	725	25	29	250	221	208-224	38	113	562	462	775	750
94.1257.500	600	598	576.5	514	526	500	800	798	776.5	725	25	29	300	271	258-274	38	113	562	462	775	750

Model Seletctions

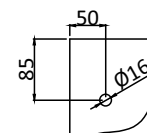
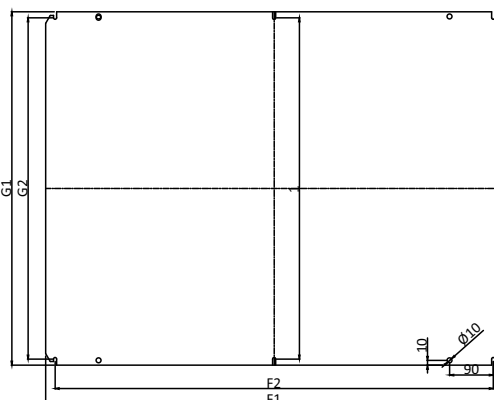
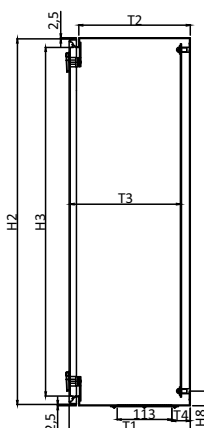
Model No.	Width dimensions (mm)						Height dimensions (mm)						Depth dimensions (mm)						Mounting plates (mm)			
Powder Coated	B1	B2	B3	B4	B5	B6	H1	H2	H3	H4	H5	N1	T1	T2	T3	T4	T5	F1	F2	G1	G2	
94.1258.500	600	598	576.5	514	526	500	1000	998	976.5	925	25	37	250	221	208-224	38	113	562	462	975	950	
94.1259.500	600	598	576.5	514	526	500	1000	998	976.5	925	25	37	300	271	258-274	70	113	562	462	975	950	
94.1260.500	760	758	736.5	674	686	500	760	758	736.5	675	25	27	210	181	168-184	38	113	722	622	735	710	
94.1261.500	760	758	736.5	674	686	500	760	758	736.5	675	25	27	300	271	258-274	38	113	722	622	735	710	
94.1262.500	800	798	776.5	714	726	500	800	798	776.5	725	25	29	300	271	258-274	38	113	762	662	775	750	
94.1263.500	800	798	776.5	714	726	500	600	598	576.5	525	25	21	300	271	258-274	38	113	762	662	575	550	
94.1264.500	800	798	776.5	714	726	500	1000	998	976.5	925	35	37	200	171	158-174	38	113	762	662	975	950	
94.1265.500	800	798	776.5	714	726	500	1000	998	976.5	925	35	37	250	221	208-224	38	113	762	662	975	950	
94.1268.500	800	798	776.5	711	723	733	1000	995	960	925	35	37	300	280	258-274	70	113	739	700	955	930	
94.1269.500	800	798	776.5	714	726	500	1200	1198	1176.5	1125	35	45	300	271	258-274	70	113	762	662	1175	1150	

Mechanical Specification



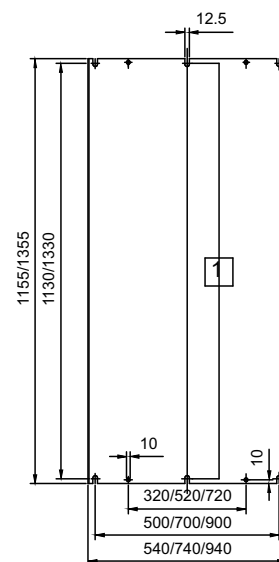
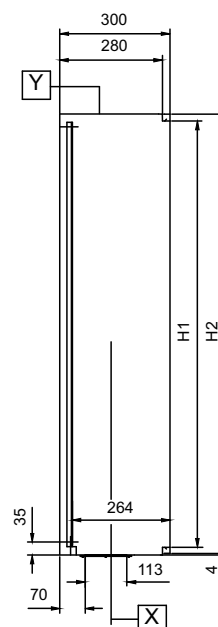
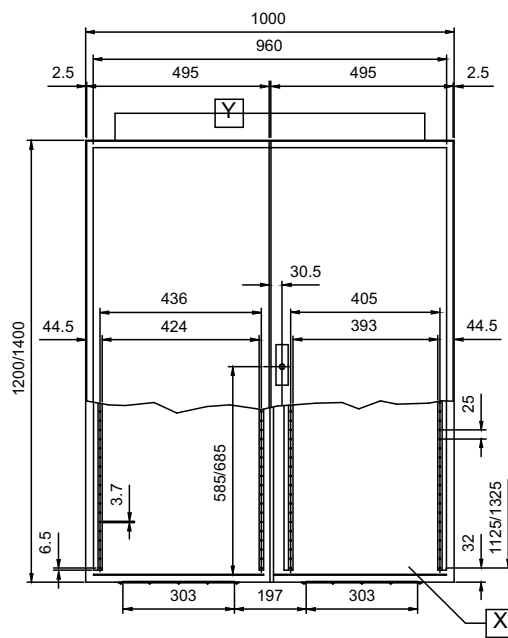
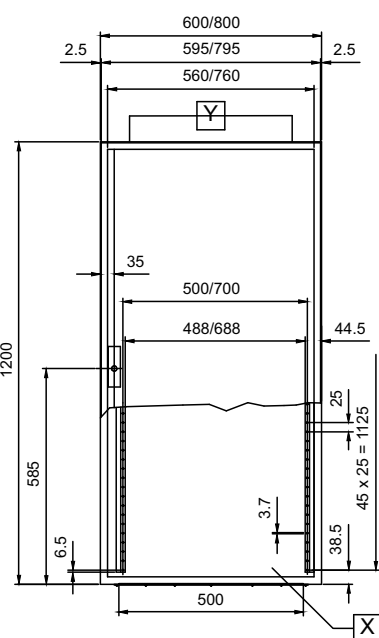


X Door interior view

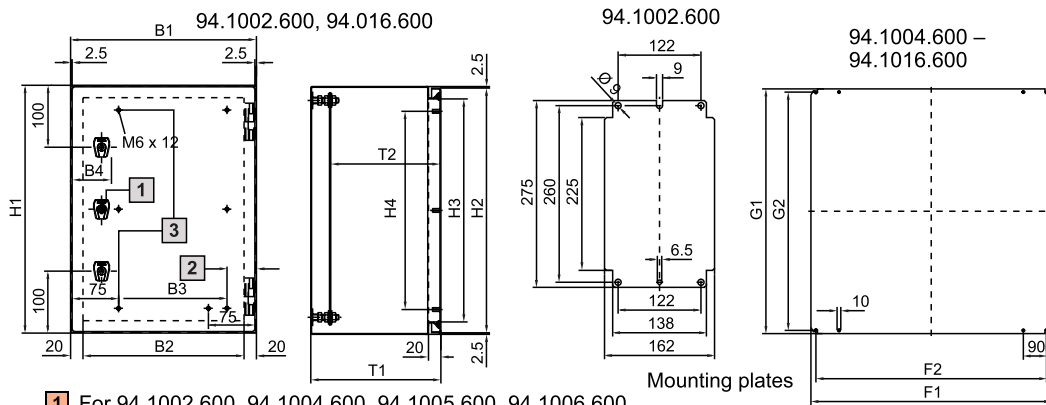


T = Depth
i.L. = Clearance width

Model No.	Width dimensions (mm)						Height dimensions (mm)						Depth dimensions (mm)					Mounting plates (mm)			
Powder Coated	B1	B2	B3	B4	B5	B6	H1	H2	H3	H4	H5	N1	T1	T2	T3	T4	T5	F1	F2	G1	G2
94.2109.500	760	758	736	666	678	705	1000	998	976	925	—	—	210	181	168-184	—	—	714	675	975	950
94.2110.500	760	755	720	675	698	660	1000	998	976	925	—	—	300	271	258-278	—	—	714	675	975	950
94.2111.500	1000	995	960	925	938	900	1000	998	976	925	—	—	280	251	238-254	—	—	954	915	975	950

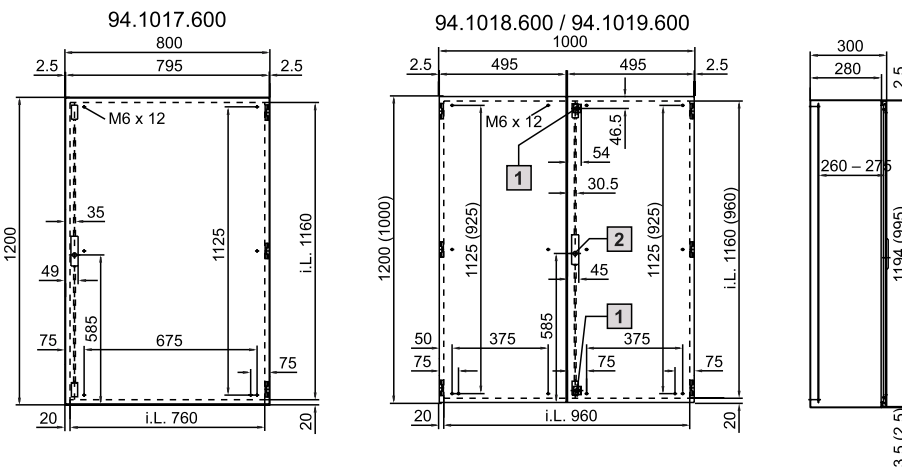


Model No.	W	H	D	Door(S)
Powder Coated				
94.2121.500	600	1200	300	1
94.2123.500	1000	1200	300	2
94.2124.500	1000	1400	300	2



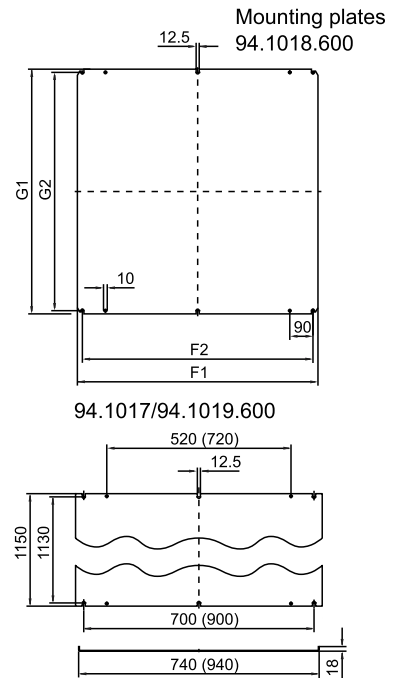
- 1 For 94.1002.600, 94.1004.600, 94.1005.600, 94.1006.600, 94.1009.600 only one cam lock in the centre and without bolts in the centre
2 50 for 94.1002.600 3 Does not apply to 94.1002.600

Installation position of the mounting plate is rotated through 90° for 94.1005.600.



- 1 Cam lock for 94.1018.600 2 Locking rod for 94.1019.600
Dimensions in brackets for 94.1018.600. i.L. = Clearance width

Width: 200 – 1000
Height: 300 – 1200
Stainless Steel



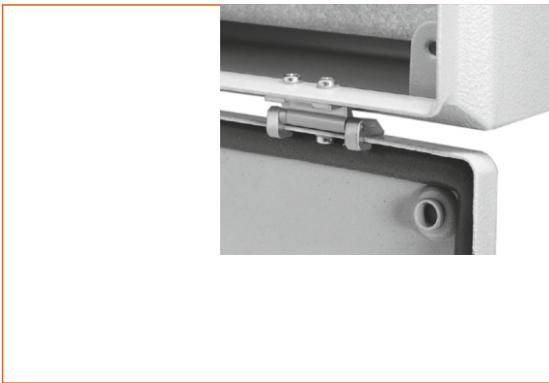
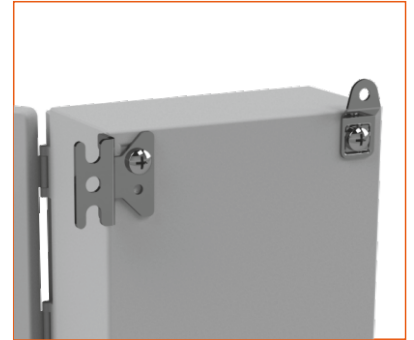
Dimensions in brackets for 94.1019.600.

Model No.	Width dimensions (mm)				Height dimensions (mm)				Depth dimensions (mm)		Mounting plates (mm)				Material thickness (mm)		
Stainless steel	B1	B2	B3	B4	H1	H2	H3	H4	T1	T2	G1	G2	F1	F2	Enclosures	Door	Mounting plate
94.1002.600	200	167	–	56	300	295	274	225	155	135	–	–	–	–	1.25	1.5	2.0
94.1004.600	380	340	250	66	300	295	260	225	155	113-129	275	250	334	295	1.38	1.5	2.0
94.1005.600	300	260	175	66	380	375	340	275	210	168-184	275	250	334	295	1.38	1.5	2.0
94.1006.600	380	340	250	66	380	375	340	275	210	168-184	355	330	334	295	1.38	1.5	2.5
94.1007.600	500	460	375	66	500	495	460	425	210	168-184	470	445	449	410	1.38	1.5	2.5
94.1013.600	500	460	375	66	500	495	460	425	300	258-274	470	445	449	410	1.50	1.5	2.5
94.1008.600	380	340	250	66	600	595	560	525	210	168-184	570	545	334	295	1.38	1.5	2.5
94.1009.600	600	560	475	66	380	375	340	275	210	168-184	355	330	549	510	1.38	1.5	2.5
94.1010.600	600	560	475	66	600	595	560	525	210	168-184	570	545	549	510	1.38	2.0	2.5
94.1012.600	600	560	475	66	760	755	720	675	210	168-184	730	705	549	510	1.38	2.0	3.0
94.1014.600	760	720	625	66	760	755	720	675	300	258-274	730	705	704	665	1.50	2.0	3.0
94.1016.600	800	760	675	66	1000	955	960	925	300	258-274	955	930	739	700	1.50	2.0	3.0
94.1017.600	800	–	–	–	1200	–	–	–	300	–	–	–	–	–	1.50	2.0	3.0
94.1018.600	1000	–	–	–	1000	–	–	–	300	–	955	930	939	900	1.50	2.0	3.0
94.1019.600	1000	–	–	–	1200	–	–	–	300	–	–	–	–	–	1.50	2.0	3.0

Accessories

Wall mounting brackets

- These are available with varying wall clearances, enabling cables to be laid behind the terminal boxes if required.
- If the installation is to be flush with the wall, this can be achieved using special wall mounting brackets.



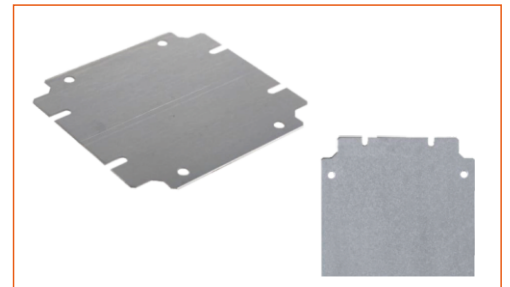
Cover holder/Cover hinge

A - Hinges

- Each hinge is securely fitted by means of a hole drilled retrospectively in the cover edge fold and in the enclosure edging.
- This is ideal for terminal boxes that are opened frequently, especially if components are installed in the cover.

Mounting plate

- Steel sheet mounting plates are available for simple configuring or preassembly, including outside the enclosure.
- As well as providing the necessary corrosion protection, the zinc-plated surface also provides EMC protection by ensuring that assemblies are contacted over a large area.



Support rails

- Customer-specific configuration possible, in particular for terminal and bus applications.
- Support rail profiles that are cut to match the dimensions of the enclosure help save time.
- The all-round zinc-plated support rails provide optimum corrosion protection.

Cable entry

- Simple cable entry through gland plates.
- Gland plates with knockouts in sheet steel.
- Connector gland for fitting preassembled connectors with a high protection category.



Enclosure

Note.



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