IN STAINLESS STEEL:

- **Compact enclosures**
- **Enclosures and support arm systems for the human/machine interface**
- **Large enclosures**

FRIEDHELM *L O H* GROUP

RITTAL®

Perfect holistic solutions

Be it automation, communications or power supply technology, Rittal offers the right enclosures and cabinets to suit virtually all requirement profiles in modern industrial engineering. As you would expect, the range is also available in stainless steel with extremely high specifications on hygiene and corrosion resistance.

Ingeniously designed system platforms in conjunction with an extensive range of system accessories provide the basis for the exceptional solution diversity of the Rittal stainless steel range. Allow us to advise you.

We are happy to work to your requirements.

RITTAL ®

Demand-oriented production

Global customer proximity

Regardless of where your products are developed, manufactured or used, we are at your service.

Fresh milk, new car paint, important medication; however varied the demands placed on stainless steel enclosures may be, we have the right solutions to accommodate them. What is more, we are constantly extending our expertise, by building on development work in close dialogue with our customers.

New to the range:
● Top enclosure system TS 8, see page 52 – 57
● Premium Panel, see page 30/31
● Plus a wide range of accessory components for optimum solutions.

Countless possibilities

The use of system accessories is the first step towards rational system integration.
The second step is afforded by a broad range of modules for climate control, electronics, IT networks and power distribution. The result? Holistic individual solutions, which are both perfect and cost-effective.

OVERVIEW OF DIVERSITY

Quality for your success

You define your requirements – Rittal has the solution! The system diversity offered by us is exemplary. It is the cumulation of expertise gleaned from countless discussions with customers. The result? Fast, reliable solutions available off the shelf, immediately – and assembled ready for use upon request.

Quality is the key

… and at Rittal it is constantly being improved, thanks to on-going quality assurance in our accredited QA laboratory.

System integration included

The basic fittings of every enclosure lend themselves to a wide range of external and internal mounted parts.

Work more effectively, easily and reliably

Success is down to the individual. Rittal offers effective support through its products.

Enclosures for the human/machine interface

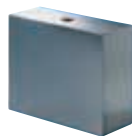| Premium Panel	Command panel	Command panel housing with door	Support arm system/stand system	AP one-piece consoles	AP universal consoles
Dimensions for installed equipment 482.6 mm (19″)/ 7 U, 120 and 220 mm deep, optionally with keyboard housing for 482.6 mm (19″)/ 4 U	**2 sizes** 320/240/160 mm and 400/320/160 mm	**4 sizes** 300/300/150 mm to 600/400/150 mm	**Various support arm components** for enclosures KL, AE and CP	**4 sizes** 600/960/400 mm to 1200/960/400 mm Single or double-door	**Size** 600/1300/500 mm With tall or short front door and clearance for desk section or drawer
Page 30/31	**Page 32/33**	**Page 34/35**	**Page 36 – 41**	**Page 42/43**	**Page 44/45**

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Compact enclosures

Terminal boxes KL	Bus enclosures BG	Compact enclosures AE	Electronic Kombi systems EL
6 sizes 150/150/80 mm to 300/300/120 mm	**5 sizes** 200/300/80 mm to 600/200/123 mm	**15 sizes** 200/300/155 mm to 1000/1200/300 mm	**8 sizes** 600/345/375 mm to 600/746/475 mm
Cover, screw fastened	Hinged door with screw fastener	One-door or two-door, lockable door with double-bit lock insert	Front door, also with viewing window
Page 14/15	**Page 16/17**	**Page 18/19**	**Page 22/23**

Large enclosures

PC enclosure systems	TS8 baying systems	Free-standing enclosures ES
Size 600/1600/620 mm	**8 sizes** 800/1800/400 mm to 1200/2000/600 mm	**6 sizes** 600/1600/400 mm to 1200/2000/500 mm
With viewing window and drawer or desk section	Single or double-door	Single or double-door
Page 46/47	**Page 54/55**	**Page 58/59**

INTEGRAL SYSTEMS

Meeting demands and cutting costs

With over 8,000 precision products available worldwide, Rittal is a superior systems supplier. The spectrum ranges from standardised mass production to customised individual solutions.

Our concept:

● Uniform system platforms

● Differentiated installation levels

● Cost-efficient versatility

● High standards of quality

All this from your one-stop suppliers. As competent system partners, we work with you to develop holistic solutions which are both perfect and cost-effective, tailored to your specific requirements.

IT solutions

● All components for data & communications networks.
● Also available for stainless steel cases and enclosures with 482.6 mm (19˝) and metric installation.

Power distribution

● From connection systems to isolators.
● Busbar systems in 40, 60, 100, 150 and 185 mm bar centre distance
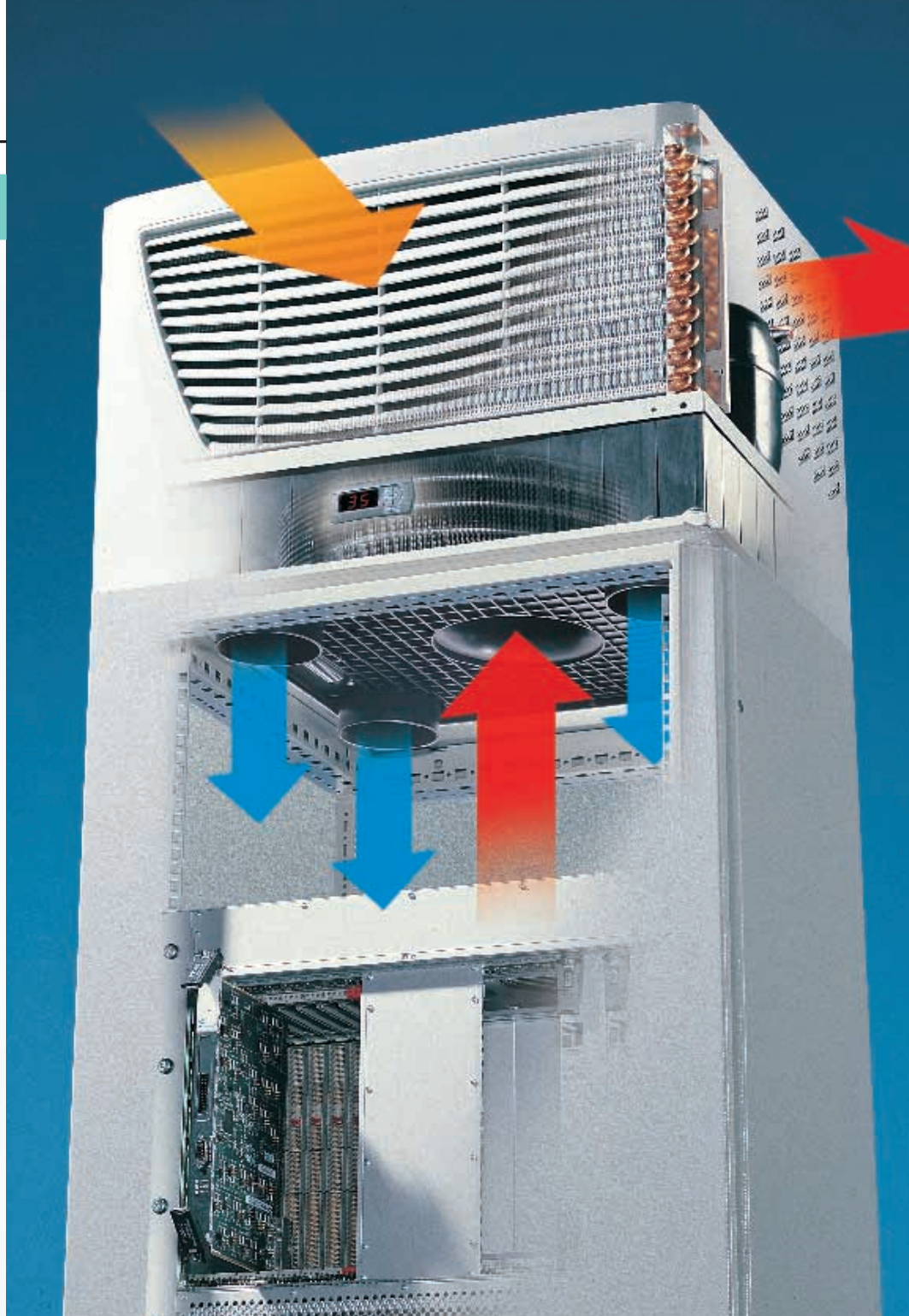● Systems up to 3200 amps.

Electronic systems

● MPS microcomputer packaging systems
● Subracks
● Cases for industrial PCs.
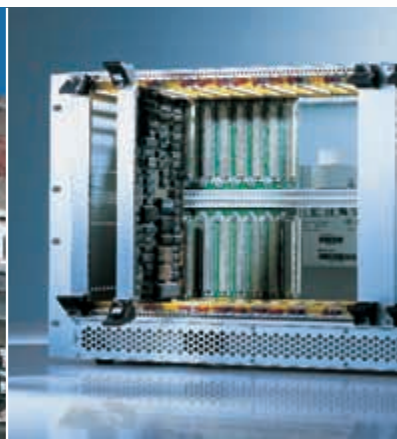
- Integral cooling technology
- Roof- and wall-mounted cooling units
- Recooling systems
- Air/water heat exchangers
- Air/air heat exchangers
- Fan-and-filter units
- Rack-mounted climate control
- Heaters

System accessories

User-friendly

e.g. with system lights, socket strips, wiring plan lecterns etc.

Early warning…

Signal pillars – just one example of safety. We also offer a full range of lock and monitoring systems.

Modular solution diversity

Outstanding:
All enclosures from the TS 8 system platform offer infinite possibilities for interior installation.

■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure

Meeting individual requirements

As global players, we boast many years of experience in international markets. With 19 production sites, 42 subsidiaries and over 70 branch offices in 5 continents, we are always close at hand.

Customer proximity regionally and worldwide

Innovative production techniques at the Wissenbach stainless steel factory ensure a successful symbiosis between individual solutions and cost-effective, top-quality mass production. Stainless steel is a special material which demands the special expertise offered by our team.

Uncompromisingly high quality

At Rittal, quality is not defined by a one-off certificate, but is instead an on-going process.
Every day, our products are put through their paces at our in-house laboratories. This includes EMC testing, climatic chambers, load tests, 3D measurement, dust testing and hosed water tests, as well as electrical safety testing.

Individual solutions – off the shelf

Particularly for customers who require small batches in individual sizes or cutouts in enclosure and case surfaces, laser technology covers all the options for cost-effective implementation of specific requirements.

Excellent benefits from standardised quality

Cost-effective products in an exemplary quality are the result of innovative mass production. For example, we have developed special techniques for shaping and welding. One outstanding example is the 16-fold profiled stainless steel section in the TS 8 Top enclosure system, with its infinite installation possibilities.

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PRODUCT COMBINATIONS

Ideas for new solutions

Leave the conventional path behind!
Combine standard products in a new way
to meet your requirements, and
significantly broaden the range of options
available. Here are just a few suggestions.

Example 1
Console with rotating operating housing

Consisting of:
- Command panel housing
  with door,
  see page 34/35
- Housing coupling, rotating,
  see page 37
- Support section,
  see page 36
- Wall/base mounting,
  see page 38
- Wall console,
  see page 40
- One-piece console,
  see page 42

Example 2
Enclosure attached to a machine

Consisting of:
● AE compact enclosure,
  see page 18/19
● With wall console, also suitable for
  cable entry, see page 40

Example 3
Mini operating unit

Consisting of:
● Terminal box KL,
  see page 14/15
● With support arm system,
  see page 36

Example 4
Enclosure combination

Consisting of:
● Electronic Kombi system EL,
  see page 22/23
● With bus enclosure BG,
  see page 16/17

Example 5
Mini operating console

Consisting of:
● Terminal box KL,
  see page 14/15
● Two enclosure attachments,
  see page 37
● Support section,
  see page 36
● Pedestal base plate, small,
  see page 41

Industrial Workstations IW

Outside of the Rittal stainless
steel enclosure range, this is an
example of solution diversity
with the most varied product
combinations.
Take a look at the IW brochure,
and allow yourself to be
inspired with new solutions
from this modular system.

COMPACT ENCLOSURES

Like the entire stainless steel range, our small and medium-sized models are ideal for all segments of industry with superior demands in terms of hygiene and corrosion protection.

They offer the correct volume to suit every requirement, together with practical fittings and accessory components for every application.
Rittal always has the solution you need. Every design innovation helps to save your valuable time, whilst every standard mounting part helps to cut costs.

Terminal boxes KL

- Screw fastened lid
- Integral profile strip with mounting holes for top-hat rails or mounting plate
- Enclosure sealed all-round

Terminal boxes KL (Protection category IP 66)

W mm	H mm	D mm	Model No. KL	Page
150	150	80	**1521.010**	
300	150	80	**1522.010**	
200	200	80	**1523.010**	
300	200	80	**1524.010**	14/15
400	200	120	**1525.010**	
300	300	120	**1526.010**	

Bus enclosures BG

- Hinged lid secured with screw fastenings
- Including support rail TS 35/7.5
- Enclosure sealed all-round

Bus enclosure BG (Protection category IP 66)

W mm	H mm	D mm	Model No. BG	Page
200	300	80	**1583.010**	
300	300	80	**1584.010**	
400	300	80	**1585.010**	16/17
400	200	123	**1558.010**	
600	200	123	**1559.010**	

■ □ □ □ □ □ Rittal Stainless steel brochure
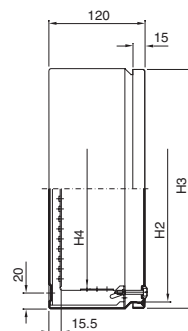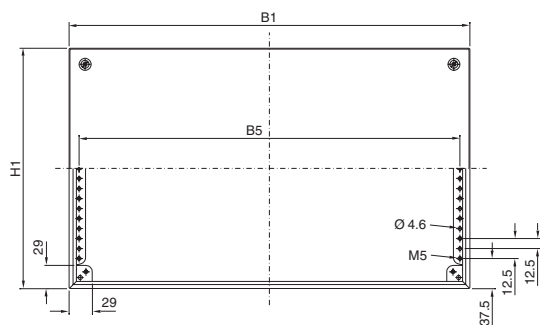
Compact enclosures AE

● Door(s) with 3 mm double-bit lock insert
● Including mounting plate
● Enclosure sealed all-round

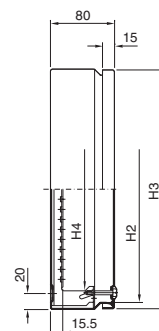### Compact enclosures AE (Protection category IP 66)

W mm	H mm	D mm	Model No. AE	Page
200	300	155	**1002.600**	
380	300	155	**1004.600**	
300	380	210	**1005.600**	
380	380	210	**1006.600**	
500	500	210	**1007.600**	
500	500	300	**1013.600**	
380	600	210	**1008.600**	
600	380	210	**1009.600**	18/19
600	600	210	**1010.600**	
600	760	210	**1012.600**	
760	760	300	**1014.600**	
800	1000	300	**1016.600**	
800	1200	300	**1017.600**	
(Protection category IP 55)				
1000	1000	300	**1018.600**	
1000	1200	300	**1019.600**	

Electronic Kombi systems EL

● Front door either solid or with safety glass window
● Centre part with 482.6 mm (19˝) mounting angle
● Base box including mounting plate

Electronic Kombi systems EL (Protection category IP 55)

W mm	H mm	D mm	Model No. EL solid	Model No. EL with glazed window	Page
600	345	375	**2267.600**	2266.600	
600	478	375	**2270.600***	2269.600*	
600	612	375	–	2272.600*	
600	212	475	–	2273.600	22/23
600	345	475	–	2276.600*	
600	478	475	**2280.600**	2279.600	
600	612	475	**2283.600***	2282.600*	
600	746	475	**2286.600***	2285.600*	

* Extended delivery times

The enclosure Model Numbers listed here apply to variants in 1.4301 (AISI 304). For variants in 1.4401 (AISI 316) or 1.4571, Model Numbers can be found on the respective product page.
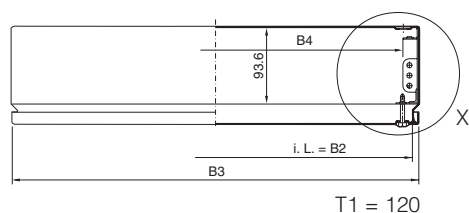
Approvals	Terminal boxes KL	Bus enclosures BG	Compact enclosures AE	Electronic Kombi systems EL
UL	●	●	●	●
CSA	●	●	●	●
TÜV	●	●	●	●
Germanischer Lloyd	●	–	●	●
Norske Veritas	●	●	●	●
Russian Maritime Register of Shipping	●	●	●	●
Lloyds Register of Shipping	●	●	●	●
Bureau Veritas	●	●	●	●
VDE	●	●	●	●

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■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure

T1 = 120

T1 = 80

T1 = 120

T1 = 80

i.L. = Clearance width
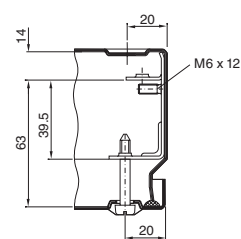
Detail X
T1 = 120

M6 x 12

Detail Y
T1 = 80

Supply includes:
Enclosure, cover with all-round foamed-in
PU seal and cover screws, including
plastic bushes.

	Packs of							Page
Width (B1) in mm		150	300	200	300	400	300	
Height (H1) in mm		150	150	200	200	200	300	
Depth (T1) in mm		80	80	80	80	120	120	
Model No. KL	1	**1521.010**	**1522.010**	**1523.010**	**1524.010**	**1525.010**	**1526.010**	
B2 = Clearance opening width		132	282	182	282	382	282	
B3 = Cover width		148	298	198	298	398	298	
B4 = Clearance width between profile strips		109	259	159	259	359	259	
B5 = Hole-centre distance of profile strips		125	275	175	275	375	275	
H2 = Clearance opening height		132	132	182	182	182	282	
H3 = Cover height		148	148	198	198	198	298	
H4 = Clearance height between profile strips		100	100	150	150	150	250	
Weight (kg)		1.3	1.8	1.8	2.4	3.6	3.9	
Cover screws		4	4	4	4	4	4	
Accessories								
Mounting plate KL	1	1560.700	1561.700	1562.700	1563.700	1564.700	1567.700	27
Wall mounting bracket KL	4	1594.000						26
Wall angle SZ	1	2583.000						26
Pole clamp SZ	1	2584.000						25
Support rails TS 35/7.5 SZ	10	2314.000	2316.000	2315.000	2316.000	2317.000	2316.000	Cat. 30 983

To order terminal boxes in 1.4401 (AISI 316), change the last three digits of the Model No. to .310, and for 1.4571, change to .410.
Delivery times available on request.

Punching for wall mounting bracket.

Enclosure with slotted profile strips, some tapped.

Resistant sealing ring for screw fastening.

Accessories:
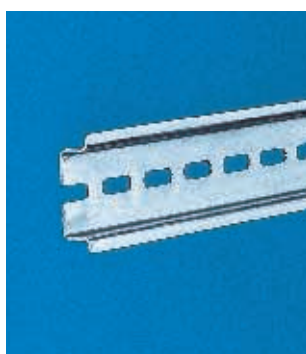see page 24 – 27
and page 70/71
or refer to index.

Material:
Stainless steel 1.4301
Box: 1.25 mm
Cover: 1.25 mm

Surface finish:
Box and cover:
Brushed, grain 180

Protection category:
IP 66 to EN 60 529/10.91
Complies with NEMA 4x

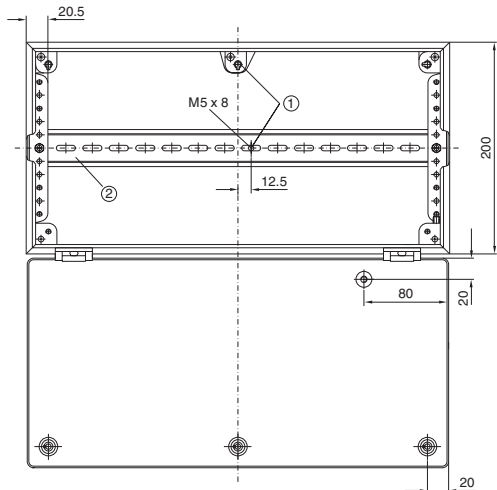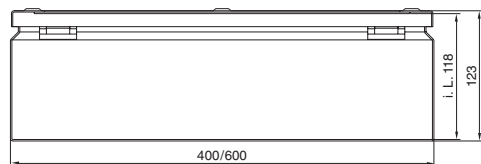**Support rails** to accommodate terminal blocks and electrical equipment.
See Cat. 30, page 983.

Housing coupling
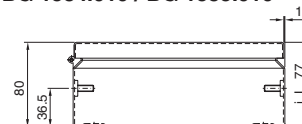For attaching the 120 mm deep KL to the support arm system.
See page 37.

Mounting plate
For component mounting even outside of the box.
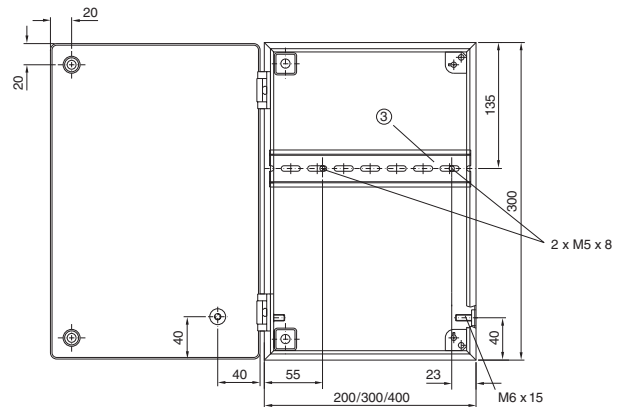See page 27.

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BG 1558.010 / BG 1559.010

400/600

i.L. 118 / 123

BG 1583.010 / BG 1584.010 / BG 1585.010

80 / 36.5 / 1 / i.L. 77

i.L. = Clearance width

20.5

M5 x 8 ①

② 12.5

200

80 / 20

20

① = Only for BG 1559.010
② = Support rail TS 35/7.5

20

20

135

300

2 x M5 x 8

40

40 / 55 / 200/300/400 / 23

M6 x 15

③ = Support rail TS 35/7.5

Supply includes:
Enclosure with 1 support rail
TS 35/7.5,
lid with foamed seal,
180° hinges,
with quick-release fasteners.

	Packs of						Page
Width in mm		200	300	400	400	600	
Height in mm		300	300	300	200	200	
Depth in mm		80	80	80	123	123	
Model No. BG	1	**1583.010**	**1584.010**	**1585.010**	**1558.010**	**1559.010**	
Weight (kg)		2.8	3.7	4.5	4.5	6.0	
Accessories							
Wall mounting bracket KL	4		1594.000			1594.000	26
Pole clamp SZ	1		2584.000			2584.000	25
Condensate discharge SZ	6		2459.000			2459.000	Cat. 30 900

To order bus enclosures in 1.4401 (AISI 316), change the last three digits of the Model No. to .300, and for 1.4571, change to .400.
Delivery times available on request.

■ □ □ □ □ □ Rittal Stainless steel brochure

180° hinges made from die-cast zinc, plated.

Support rail adjustable on profile strip (with BG 1558.010, BG 1559.010).

Support rail secured on studs (with BG 1583.010, BG 1584.010, BG 1585.010).

+ Accessories:

see page 24 – 27
and page 70/71
or refer to index.

Material:
Stainless steel 1.4301
Box: 1.25 mm
Cover: 1.25 mm
Hinges:
Die-cast zinc

Surface finish:
Box and cover:
Brushed, grain 180
Hinges: Plated
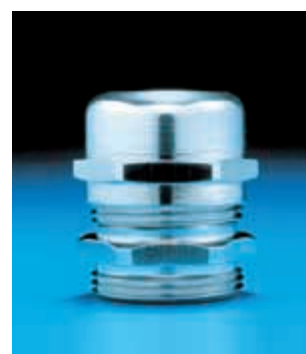
Protection category:
IP 66 to EN 60 529/10.91

Modification:
● Viewing window for I/O displays
● Holes for screw connections
● Other designs available on request.

Wall mounting bracket
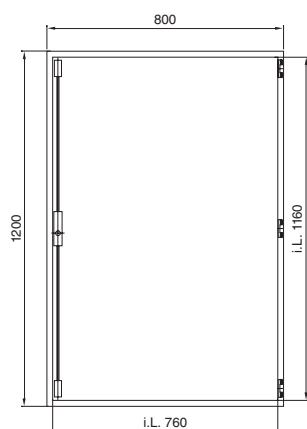For secure attachment of enclosures.
See page 26.

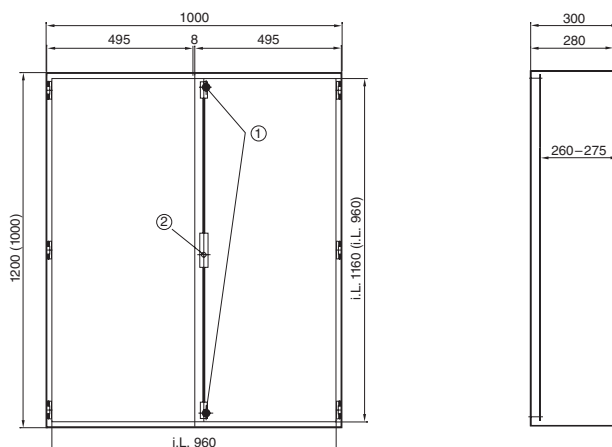**Pole clamp**
For fastening to round or square poles.
See page 25.

EMC cable glands
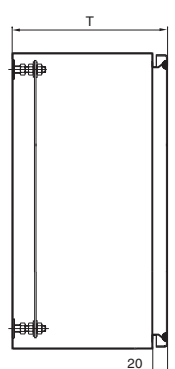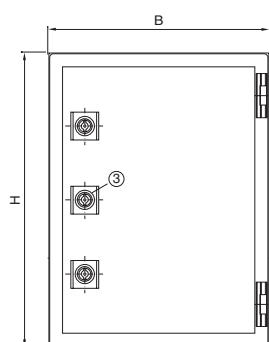With special ring for 360° contact.
See Cat. 30, page 894.

AE 1017.600

AE 1018.600 / AE 1019.600

① = Cam lock for AE 1018.600
② = Locking rod for AE 1019.600
Dimensions in brackets for AE 1018.600

i.L. = Clearance width

AE 1002.600 – AE 1016.600

③ = Bei AE 1002.600, AE 1004.600, AE 1005.600, AE 1006.600,
AE 1009.600 only one cam lock in the centre

Detailed drawings
page 20/21.

Width (B) in mm	Packs of	200	380	300	380	500	500	380	600	Page
Height (H) in mm		300	300	380	380	500	500	600	380	
Depth (T) in mm		155	155	210	210	210	300	210	210	
Model No. AE	1	**1002.600**	**1004.600**	**1005.600**	**1006.600**	**1007.600**	**1013.600**	**1008.600**	**1009.600**	
Doors		1	1	1	1	1	1	1	1	
Weight (kg)		4.5	8.8	8.7	12.0	18.4	18.9	17.0	17.0	
Accessories										
Rain canopy SZ	1	2470.000	2471.000	2361.000	2472.000	2362.000	–	2472.000	2473.000	25
Wall mounting bracket SZ	4	2433.000								26
Wall angle SZ	1	2583.000								26
Pole clamp SZ	1	2584.000								25
Cam lock of 1.4301 SZ	1	2304.000								24

Width (B) in mm	Packs of	600	600	760	800	800	1000	1000	
Height (H) in mm		600	760	760	1000	1200	1000	1200	
Depth (T) in mm		210	210	300	300	300	300	300	
Model No. AE	1	**1010.600**	**1012.600**	**1014.600**	**1016.600**	**1017.600**	**1018.600**	**1019.600**	
Doors		1	1	1	1	1	2	2	
Weight (kg)		25.0	31.7	42.5	52.9	70.0	71.0	85.0	
Accessories									
Rain canopy SZ	1	2473.000	2473.000	2474.000	2475.000	2475.000	2363.000	2363.000	25
Wall mounting bracket SZ	4	2433.000							26
Wall angle SZ	1	2583.000							26
Pole clamp SZ	1	2584.000	2584.000	–	–	–	–	–	25
Cam lock of 1.4301 SZ	1	2304.000	2304.000	2304.000	2304.000	–	–	–	24

Lock systems
In enclosures fitted with a cam lock, the standard double-bit lock insert (except for AE 1018.600 / AE 1019.600) may be exchanged for a 41 mm lock insert, security cylinder insert, plastic handle, T-handles, design C, see Cat. 30, page 940 – 943.
With AE 1018.600, may only be exchanged for 41 mm lock inserts.
In enclosures with a locking rod, may be exchanged for 27 mm lock inserts, design A, see Cat. 30, page 942 and
Ergoform-S lock system, see Cat. 30, page 939.

To order compact enclosures in 1.4401 (AISI 316), change the last three digits of the Model No. to .300, and for 1.4571, change to .400.
Delivery times available on request.

■ □ □ □ □ □ Rittal Stainless steel brochure

Enclosure protection channel prevents the ingress of dirt and water when the door is opened.

To dismantle the door, the hinge pin is simply pulled out.

+ Accessories:

see page 24 – 27
and page 70/71
or refer to index.

Supply includes:
Enclosure, door(s) with
foamed-in seal, mounting plate.

Material:
Stainless steel 1.4301
Enclosure and door:
Stainless steel
Mounting plate: Sheet steel
Cam lock: Die-cast zinc,
nickel-plated

Surface finish:
Enclosure and door:
Brushed, grain 180
Mounting plate: Zinc-plated

Protection category:
IP 66 to EN 60 529/10.91
for AE 1002.600 – AE 1017.600,
complies with NEMA 4x.
IP 55 to EN 60 529/10.91
for AE 1018.600 / AE 1019.600,
complies with NEMA 12.

Lock cover
Prepared for padlock or
multiple lock.
See Cat. 30, page 945.

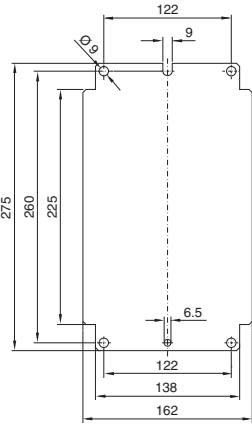

Lock inserts
See Cat. 30, page 942.

Rain canopies
For protection against direct
water inflow.
See page 25.

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AE 1002.600 – AE 1016.600

① = For AE 1002.600, AE 1004.600,
AE 1005.600, AE 1006.600,
AE 1009.600 only one cam lock
in the centre and no central bolts
② = 50 for AE 1002.600
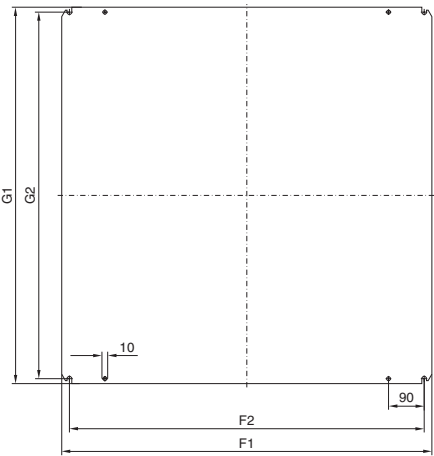③ = Does not apply to AE 1002.600
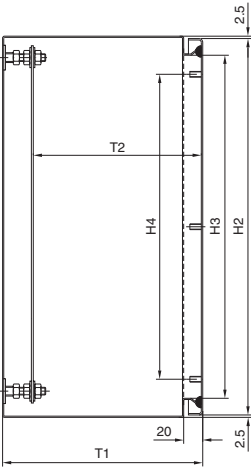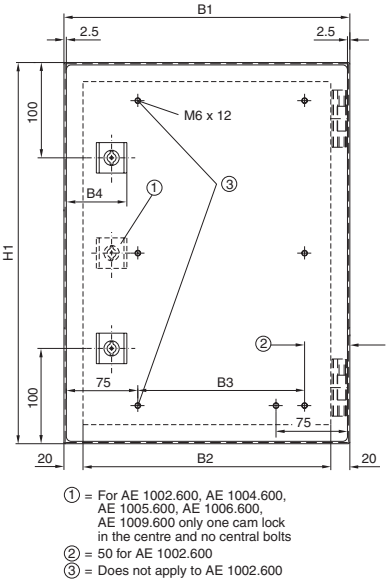
Mounting plates

AE 1002.600

AE 1004.600 – AE 1016.600

Installation position of the mounting plate is rotated
through 90° for AE 1005.600 / AE 1009.600

Compact enclosures AE

Model No. AE	Dimensions of enclosures										Dimensions of mounting plate				Material thicknesses in mm		
	B1	B2	B3	B4	H1	H2	H3	H4	T1	T2	G1	G2	F1	F2	Enclosure	Door	Mounting plate
1002.600	200	167	–	56	300	295	274	225	155	135	–	–	–	–	1.25	1.5	2.0
1004.600	380	340	250	66	300	295	260	225	155	113–129	275	250	334	295	1.38	1.5	2.0
1005.600	300	260	175	66	380	375	340	275	210	168–184	275	250	334	295	1.38	1.5	2.0
1006.600	380	340	250	66	380	375	340	275	210	168–184	355	330	334	295	1.38	1.5	2.5
1007.600	500	460	375	66	500	495	460	425	210	168–184	470	445	449	410	1.38	1.5	2.5
1013.600	500	460	375	66	500	495	460	425	300	258–274	470	445	449	410	1.50	1.5	2.5
1008.600	380	340	250	66	600	595	560	525	210	168–184	570	545	334	295	1.38	1.5	2.5
1009.600	600	560	475	66	380	375	340	275	210	168–184	355	330	549	510	1.38	1.5	2.5
1010.600	600	560	475	66	600	595	560	525	210	168–184	570	545	549	510	1.38	2.0	2.5
1012.600	600	560	475	66	760	755	720	675	210	168–184	730	705	549	510	1.38	2.0	3.0
1014.600	760	720	625	66	760	755	720	675	300	258–274	730	705	704	665	1.50	2.0	3.0
1016.600	800	760	675	66	1000	955	960	925	300	258–274	955	930	739	700	1.50	2.0	3.0
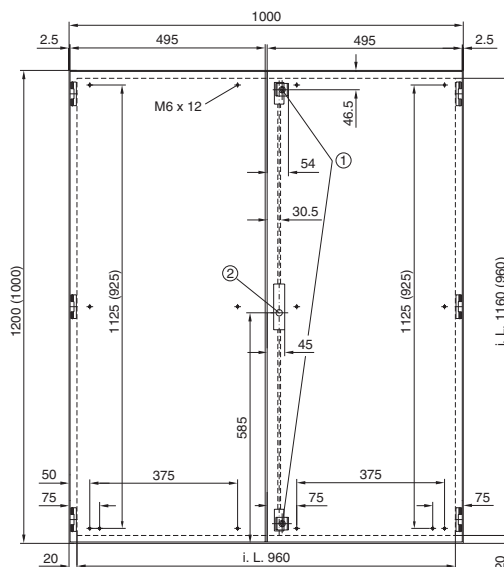
■ □ □ □ □ □ Rittal Stainless steel brochure
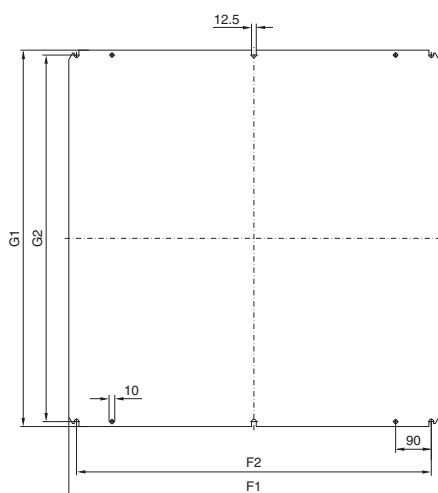
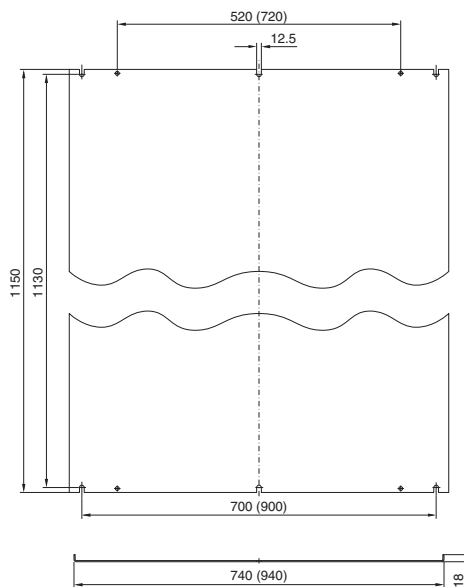## Dimensions in detail

AE 1017.600

AE 1018.600 / AE 1019.600

① = Cam lock for AE 1018.600
② = Locking rod for AE 1019.600
Dimensions in brackets are for AE 1018.600

i.L. = Clearance width
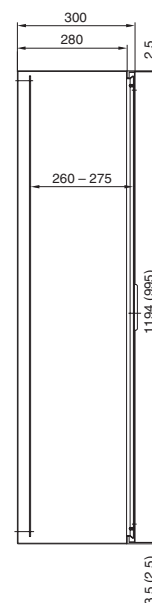
Mounting plates

AE 1018.600

AE 1017.600 / AE 1019.600

Dimensions in brackets are for AE 1019.600

Compact enclosures AE

Model No. AE	Dimensions of enclosures			Dimensions of mounting plate				Material thicknesses in mm		
	B1	H1	T1	G1	G2	F1	F2	Enclosure	Door	Mounting plate
1017.600	800	1200	300	–	–	–	–	1.50	2.0	3.0
1018.600	1000	1000	300	955	930	939	900	1.50	2.0	3.0
1019.600	1000	1200	300	–	–	–	–	1.50	2.0	3.0
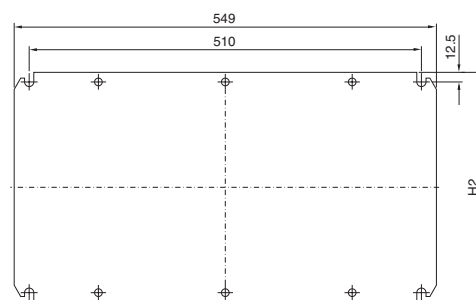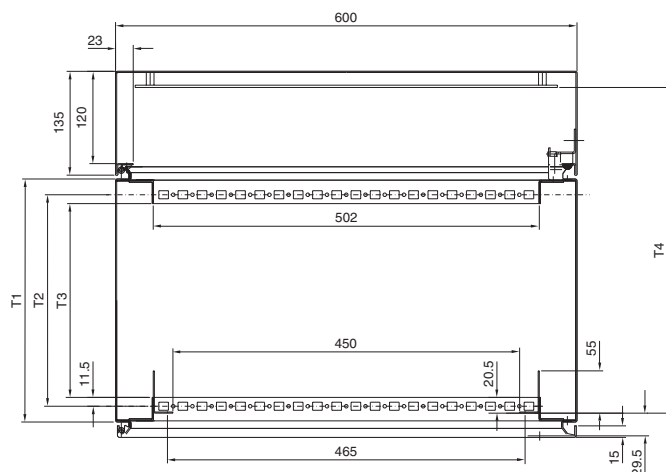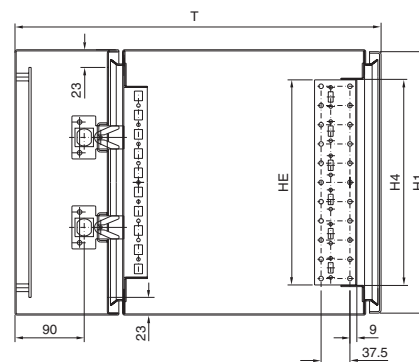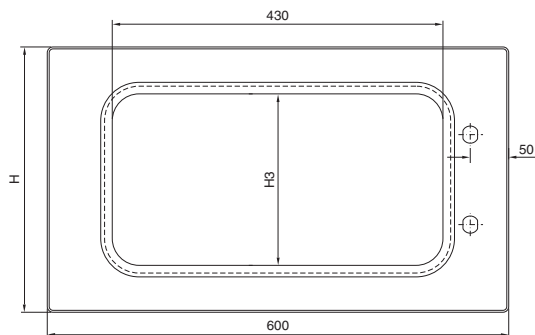
Supply includes:

1 front door with safety glass or
1 front door, solid,
1 centre part,
1 wall component,
2 x 482.6 mm (19″) mounting angles,
1 zinc-plated mounting plate,
assembly parts,
locks,
foamed-in seals,
fully assembled.

B = Width
T = Depth
HE = U

	Packs of	Enclosure depth 375 mm			Enclosure depth 475 mm					Page
		6 U	9 U	12 U	3 U	6 U	9 U	12 U	15 U	
Model No. EL, solid	1	**2267.600**	**2270.600***	–	–	–	**2280.600**	**2283.600***	**2286.600***	
Model No. EL, with viewing window	1	**2266.600**	**2269.600***	**2272.600***	**2273.600**	**2276.600***	**2279.600**	**2282.600***	**2285.600***	
B (mm)		600	600	600	600	600	600	600	600	
H (mm)		345	478	612	212	345	478	612	746	
H1 (mm)		340	473	607	207	340	473	607	741	
H2 (mm)		299	432	565	165	299	432	565	699	
H3 (mm)		233	366	500	100	233	366	500	634	
H4 (mm)		268	401	535	135	268	401	535	669	
T (mm)		375	375	375	475	475	475	475	475	
T1 (mm)		216	216	216	316	316	316	316	316	
T2 (mm)		175	175	175	275	275	275	275	275	
T3 (mm)		152	152	152	252	252	252	252	252	
T4 (mm)		324	324	324	424	424	424	424	424	
Accessories for external mounting										
Wall mounting bracket SZ 10 mm spacing	1	2433.000								26
Accessories for interior installation										
Slide rails EL	10	2240.000			2250.000					Cat. 30 800
C rails EL	4	2238.000			2239.000					Cat. 30 800
Blanking plates		see Cat. 30, page 1036								

* Extended delivery times.

To order Electronic Kombi systems EL in 1.4401 (AISI 316), change the last three digits of the Model No. to .300, and for 1.4571, change to .400. Delivery times available on request.

Front centre part with vertical 482.6 mm (19″) mounting angle and horizontal punchings on a 25 mm pitch pattern.

Rear centre part with all-round punchings on a 25 mm pitch pattern.

Cam lock in base box.

➕ **Accessories:**

Material:
Front door, centre part,
wall component:
1.5 mm stainless steel 1.4301
Viewing window:
4 mm safety glass
Mounting angles:
1.5 mm stainless steel 1.4016
Mounting plate:
Sheet steel 3,0 mm
Lock:
Stainless steel 1.4301

Surface finish:
Stainless steel 1.4301:
Brushed, grain 240
Mounting plate: zinc-plated

Protection category:
IP 55 to EN 60 529/10.91

Wall mounting bracket
Permits cable routing behind the enclosure.
See page 26.
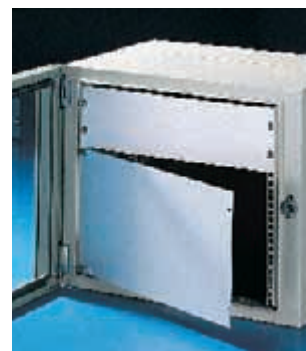
Blanking plates
In various heights, horizontally or vertically hinged.
See Cat. 30, page 1036.

■ □ □ □ □ □ Rittal Stainless steel brochure

ACCESSORIES

Compact enclosures

Cam lock

Complete cam lock with double-bit insert for AE stainless steel enclosures (with cam lock).

Material:
Stainless steel 1.4301

Supply includes:
Assembly parts included

Packs of	Model No. SZ
1	**2304.000**

Semi-cylinder lock

For retrospective mounting on all single-door AE compact enclosures in stainless steel with cam lock. The cover plate is latched by semi-cylinders with a total length of 40 or 45 mm (to DIN 18 254). An extra cover protects the cylinder from dirt.
The protection category of the enclosure is not reduced.
Supplied without semi-cylinder.

Packs of	Model No. SZ
1	**2534.500**

Material:
Die-cast zinc, plated (matt).

German patent no. 195 12 280
US patent no. 5,916,282
Jap. patent no. 3.088.465
European patent no. 0778 913
with validity for GB, FR, IT

Lock cover

For padlocks and multiple locks.
For retrospective mounting on all single-door compact enclosures AE with cam lock.
Lug with 11 mm diameter hole for padlocks or multiple locks.
The protection category of the enclosure is not reduced.

Packs of	Model No. SZ
1	**2493.000**

Material:
Die-cast zinc, plated (matt).

Supply includes:
Lock cover
assembly parts included.

+ Accessories:

Multiple lock,
see Cat. 30, page 945.

Rain canopies for AE

Reliable protection for outdoor siting – with water run-off to the rear. Easily retrofitted.

Material:
Stainless steel 1.4301

Surface finish:
Brushed

Supply includes:
Including assembly parts

Note:
For outdoor siting, as a general principle, we recommend a rain canopy above the enclosure or above the gap between the door or screw-fastened rear panel and the enclosure, in order to protect against water and UV rays.
The tests of IP protection levels for water protection (2nd code digit to EN 60 529) should not be applied to enclosures sited outdoors or in similar conditions.
Rain canopies for other enclosures available on request.
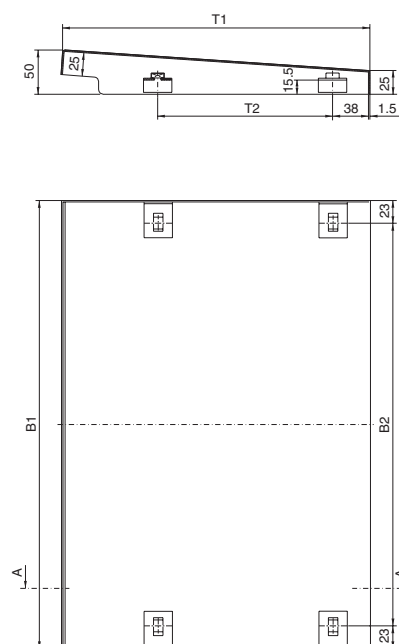
For AE enclosures	B1	B2	T1	T2	Model No. SZ
1002.600	211	160	180	65	**2470.000**
1005.600	311	260	235	120	**2361.000**
1004.600	391	340	180	65	**2471.000**
1006.600 1008.600	391	340	235	120	**2472.000**
1007.600	511	460	235	120	**2362.000**
1009.600 1010.600 1012.600	611	560	235	95	**2473.000**
1014.600	771	720	325	185	**2474.000**
1016.600 1017.600	811	760	325	185	**2475.000**
1018.600 1019.600	1011	960	325	185	**2363.000**

+ **Accessories:**

Condensate discharge,
see Cat. 30, page 900.

Pole clamp

For reliable, convenient fastening to round or square poles.

For pole diameter/size:
Ø   from 40 up to 190 mm
☐   from 50 up to 150 mm

Material:
Cross rails, clamping section:
Sheet steel, zinc-plated
Clamping strap:
Stainless steel 1.4301

	Model No. SZ
Pole clamp	**2584.000**

Supply includes:
2 cross rails, 600 mm long,
4 clamping sections,
2 clamping straps,
4 clamping brackets,
4 screws and M8 nuts
   for mounting on the enclosure.

German patent no. 36 10 152

ACCESSORIES

Compact enclosures

Wall mounting bracket

For fastening KL, EB and BG enclosures.

Material:
Stainless steel 1.4301

Wall distance	Packs of	Model No. KL
8 mm	4	**1594.000**

See drawing A for dimensions

Wall mounting bracket

For fastening KL, EB, BG, AE and EL enclosures.

Material:
Stainless steel 1.4301

Wall distance	Packs of	Model No. SZ
10 mm	4	**2433.000**

See drawing B for dimensions

With stainless steel enclosures, additional holes are required in the rear wall for reasons of hygiene and because of the protection category.

Wall angle

For compact enclosures (additional holes required in the enclosure).
Simple mounting, no distance from the wall.

Material	Packs of	Model No. SZ
Stainless steel 1.4301	1	**2583.000**

See drawing C for dimensions

Wall mounting brackets/angles

Drawing A
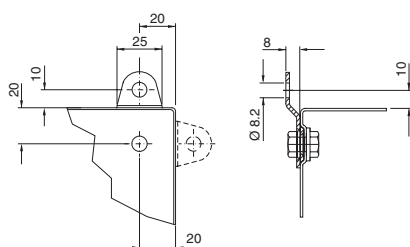
Drawing B
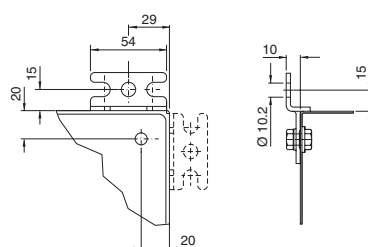
Drawing C
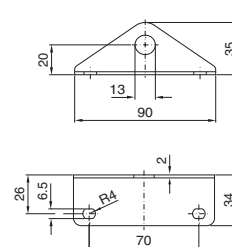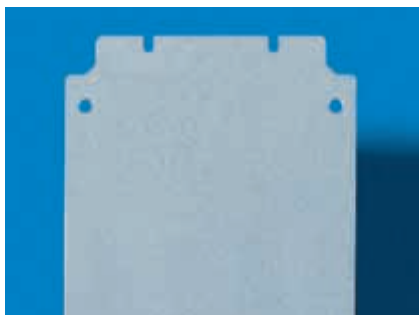
Mounting plates for KL

For component mounting, even before fitting in the enclosure. Assembly screws included in the accessory of the enclosure.

Material:
2 mm sheet steel

Surface finish:
Zinc-plated

+ **Accessories:**

Self-drilling screws SZ 2487.000, see Cat. 30, page 969.

⇄ **Possible alternative:**

Support rails, see Cat. 30, page 983.

① = With 125 mm wide plates, fastening is in the centre only
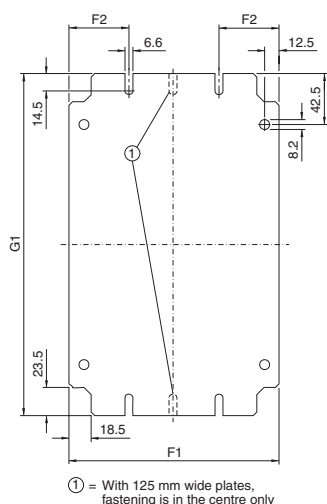
For dimensions mm	For Model No.	Dimensions in mm			Model No. KL
		G1	F1	F2	
150 x 150	KL 1500.210, KL 1514.210, KL 1521.010	135	125	–	**1560.700**
200 x 150	KL 1528.210, KL 1529.210	185	125	–	**1575.700**
300 x 150	KL 1501.210, KL 1515.210, KL 1522.010, KL 1530.210	285	125	–	**1561.700**
400 x 150	KL 1589.210	385	125	–	**1576.700**
200 x 200	KL 1502.210, KL 1516.210, KL 1523.010	185	175	50	**1562.700**
300 x 200	KL 1503.210, KL 1517.210, KL 1524.010, KL 1531.210	285	175	50	**1563.700**
400 x 200	KL 1504.210, KL 1518.210, KL 1525.010, KL 1532.210	385	175	50	**1564.700**
500 x 200	KL 1505.210, KL 1533.210	485	175	50	**1565.700**
600 x 200	KL 1506.210, KL 1519.210, KL 1534.210	585	175	50	**1566.700**
800 x 200	KL 1527.210, KL 1542.210	785	175	50	**1574.700**
300 x 300	KL 1507.210, KL 1526.010, KL 1535.210	285	275	50	**1567.700**
400 x 300	KL 1508.210, KL 1536.210	385	275	50	**1568.700**
500 x 300	KL 1509.210, KL 1537.210	485	275	50	**1569.700**
600 x 300	KL 1510.210, KL 1538.210	585	275	50	**1570.700**
400 x 400	KL 1511.210, KL 1539.210	385	375	62.5	**1571.700**
600 x 400	KL 1512.210, KL 1540.210	585	375	62.5	**1572.700**
800 x 400	KL 1513.210, KL 1541.210	785	375	62.5	**1573.700**

HUMAN/MACHINE INTERFACE

When it comes to ergonomics and user-friendliness, operating housings (particularly in conjunction with the support arm system), consoles and PC cases are capable of meeting the most discerning demands. Machines with modern, flexible production technology need solutions at the operating interface which meet their requirements precisely.

These include rational enclosure population, versatile positioning of monitoring and control components, and high-quality controllers with an outstanding design. Under the motto "Standardised, not customised", Rittal offers complete solutions to boost productivity at the interface between human and machine.

Premium Panel

- Screw fastened rear panel to meet discerning requirements in the food and hygiene sectors
- Support arm connection with reinforcement plate optionally at the top or bottom
- With keyboard housing on request
- Two duct connectors, also suitable for cable routing betw. the operating housing and keyboard housing
- All-round sealed enclosure, with designer front

Command panel	W mm	H mm	D mm	Support arm connection	Model No.	Page
Premium Panel with keyboard housing (Protection category IP 69K)						
	530	460	120	top	**6680.000**	
	530	460	120	bottom	**6680.010**	
	530	460	220	top	**6680.100**	
	530	460	220	bottom	**6680.110**	
Keyboard housing	530	200	80/63			30/31
Premium Panel without keyboard housing (Protection category IP 69K)						
	530	360	120		**6681.000**	
	530	360	220		**6681.100**	

Command panel

- Front panel or rear panel screw-fastened all round
- Support arm connection with reinforcement plate at the top/bottom by rotating the enclosure
- All-round sealed enclosure, projection over the front panel to protect installed equipment

W mm	H mm	D mm	Model No. CP	Page
320	240	160	**6670.000**	32/33
400	320	160	**6672.000**	

Command panel (Protection category IP 65)

Command panel housing with door

- Door 40 mm deep, left-hand hinge, side handle strips made from plastic approved for use in the food industry
- Support arm connection with reinforcement plate at the top/bottom by rotating the enclosure
- All-round sealed enclosure, 3 mm double-bit lock insert on the right-hand side

W mm	H mm	D mm	Model No. CP	Page
300	300	150	**6535.010**	
400	300	150	**6536.010**	34/35
400	400	150	**6538.010**	
600	400	150	**6539.010**	

Command panel housing with door (Protection category IP 66)

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AP universal consoles

- Front doors with 3 mm double-bit lock insert at the bottom, optionally in tall or short version for desk section or keyboard drawer
- Rear door with tubular door frame and 3 mm double-bit lock insert
- Depth-adjustable with mounting plate
- Three-piece gland plates
- Enclosure sealed at the sides and top, with 25 mm system punchings

Universal consoles AP (Protection category IP 56)

W mm	H mm	D mm	Model No. AP with short front door	Model No. AP with tall front door	Page
600	1300	500	**2688.600**	**2689.600**	44/45

AP one-piece consoles

- Door(s) and console lid with 3 mm double-bit lock insert
- With height-adjustable mounting plate
- Two-piece gland plates
- Enclosure sealed at the sides and rear

AP one-piece consoles (Protection category IP 55)

W mm	H mm	D mm	Model No. AP	Page
600	960	400/480	**2683.600**	
800	960	400/480	**2684.600**	42/43
1000	960	400/480	**2685.600**	
1200	960	400/480	**2686.600**	

PC enclosure systems

- Front doors with 3 mm double-bit lock insert at the bottom, viewing window at the top
- With keyboard drawer or desk section
- Rear door with tubular door frame and 3 mm double-bit lock insert
- Three-piece gland plates
- Enclosure sealed at the sides and top, with 25 mm system punchings

PC enclosure systems (Protection category IP 55)

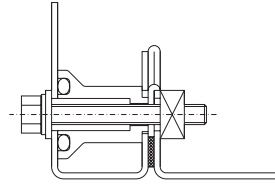| W mm	H mm	D mm	Model No. PC with keyboard drawer	Model No. PC with desk section	Page
610	1600	620	**4650.000**	**4650.704**	46/47

The enclosure Model Numbers listed here apply to the variant in 1.4301 (AISI 304).
For variants in 1.4401 (AISI 316) or 1.4571, Model Numbers can be found on the respective product page.

Approvals	Command panel	Command panel housing with door	AP one-piece consoles	AP universal consoles	PC enclosure systems
UL	●	●	●	●	●
CSA	●	●	●	●	●
TÜV	–	●	●	●	●
Germanischer Lloyd	–	–	●	●	●
Norske Veritas	–	●	●	●	●
Russian Maritime Register of Shipping	–	–	●	●	●
Lloyds Register of Shipping	–	–	●	●	●
Bureau Veritas	–	●	●	●	●
VDE	–	●	●	●	●

■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure

Operating housing

Support arm connection at bottom by rotating the enclosure
Dimensions in brackets for CP 6681.000

Hex screw external

Screw, internal with plastic bungs
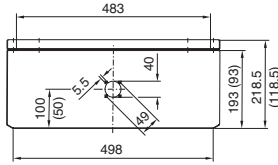
Operating and keyboard housing

Dimensions in brackets for CP 6680.010

① = Support arm connection at top only with CP 6680.000, CP 6680.100
② = Support arm connection at bottom only with CP 6680.010, CP 6680.110
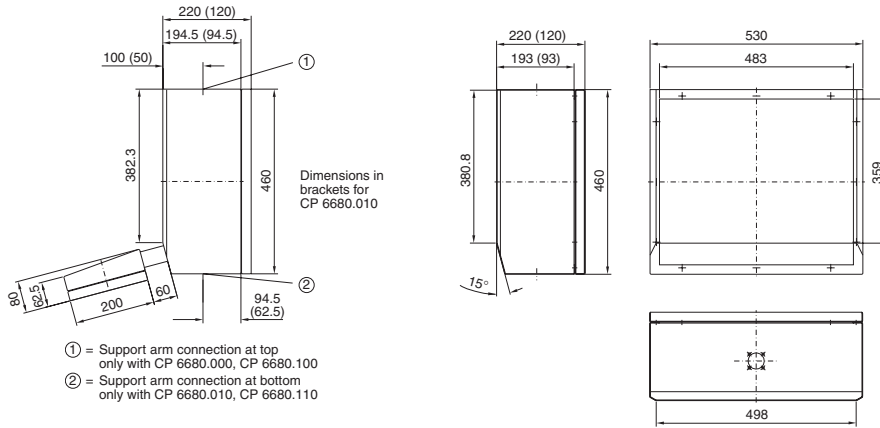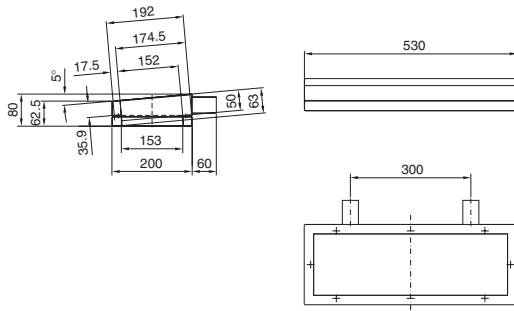
Keyboard housing

Top view Depth 120 mm
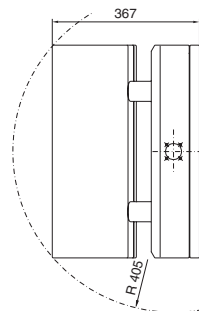
Top view Depth 220 mm
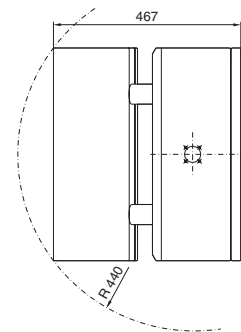
		Packs of	Premium Panel					
			with keyboard housing				without keyboard housing	
Model No. CP		1	**6680.000**	**6680.010**	**6680.100**	**6680.110**	**6681.000**	**6681.100**
Width mm			530					
Height mm	Operating housing		460				360	
	Keyboard housing		200				–	
Depth mm	Operating housing		120		220		120	220
	Keyboard housing		63/80					
For installation plate W x H	Operating housing		482.6 mm (19″) x 310 mm (7 U)					
	Keyboard housing		482.6 mm (19″) x 177 mm (4 U)				–	
Installation depth	Operating housing		115		215		115	215
	Keyboard housing		front 58 rear 63				–	
Support arm connection			top	bottom	top	bottom	top, bottom by turning the housing	
Accessories								
Rear panel holder CP		2	6682.000					

* To order Premium Panel in 1.4401 (AISI 316) use Model No. CP 663X.XXX, in 1.4571 use Model No. CP 664X.XXX. Delivery times available on request.

■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure

Easy-to-clean exterior gasket.

Cable entry into the keyboard housing through the duct connectors to the operating housing.

Material:
Stainless steel 1.4301

Surface finish:
Brushed, grain 240

Protection category:
IP 69K to DIN 40 050-9/5.93

Rittal service:

Other dimensions or other housings with this sealing design available on request. Cutouts and holes to your specifications.

Accessories:

see page 70/71 or refer to index.

A new layout, a new concept for seal and fastener
● Safe for high-pressure cleaning (protection category IP 69K to DIN 40 050-9/5.93). Seal is between two surfaces and is compressed optimally through screw fastening (see detailed drawing).
● Screw fastening for high standards in the areas of food and hygiene. Internally with plastic bungs, external hex screw head.

● Best EMC conditions. Through the seal labyrinth, special EMC shielding is achieved in the housing.
● Internal rear panel holder. With regard to hygiene, this solution is clearly superior to external hinges.
● Two duct connectors between the enclosures.

The **rear panel holder** holds the rear panel in position when opened.

Model No. CP 6682.000
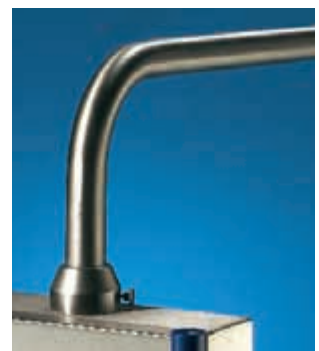
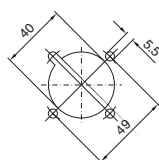**Support arm system**
See page 36.
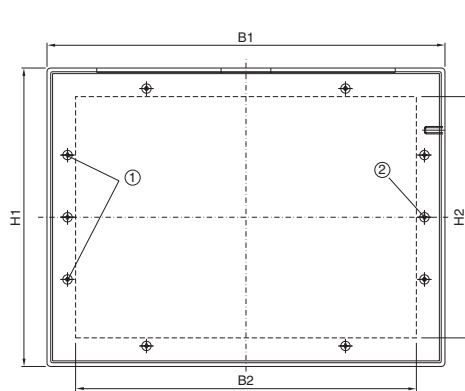
31

① = Does not apply to CP 6670.000
② = Does not apply to CP 6672.000

M6 x 15
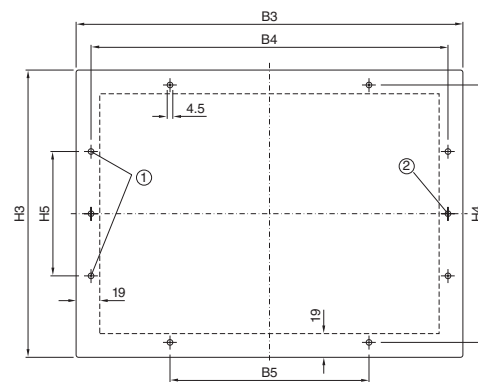
① = Does not apply to CP 6670.000
② = Does not apply to CP 6672.000
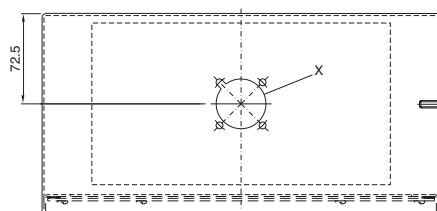
X = Mounting cutout

Supply includes:
Enclosure with cutout and reinforcement for support arm system,
front panel or rear panel with seal and assembly parts.

Two configuration options:
● Front panel screw-fastened at the front
● Front panel as rear panel, additional handle strips made from food-safe plastic similar to RAL 5002 (ultramarine blue) available on request

	Packs of	320	400	Page
Width (B1) in mm		320	400	
Height (H1) in mm		240	320	
Depth in mm		160		
Model No. CP	1	**6670.000**	**6672.000**	
B2 = clearance in width		275	355	
B3* = width of front panel		313	393	
B4 = hole pitch		288	368	
B5 = hole pitch		180	220	
H2 = clearance in height		195	275	
H3* = height of front panel		233	313	
H4 = hole pitch		208	288	
H5 = hole pitch		–	180	
Weight (kg)		5	8	
Accessories				
Mounting plate KL	1	1563.700	1567.700	27
Support rails TS 35/7.5 SZ	10	2316.000		Cat. 30 983
Mounting plate	4	4532.000		Cat. 30 978
Mounting bracket	4	4597.000		Cat. 30 978

To order command panels in 1.4401 (AISI 316), please change the last three digits of the Model No. to .300, and for 1.4571, change to .400.
Delivery times available on request.
* Other sizes and front panel finishes available on request.

■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure

Multi-folded enclosure opening with captive nuts to secure the front panel.

Recessed front panel installation provides a high level of mechanical protection for mounted equipment.

+ Accessories:

see page 70/71
or refer to index.

Material:
Stainless steel 1.4301
Enclosure: 1.25 mm
Front panel: 2.0 mm

Surface finish:
Brushed, grain 240

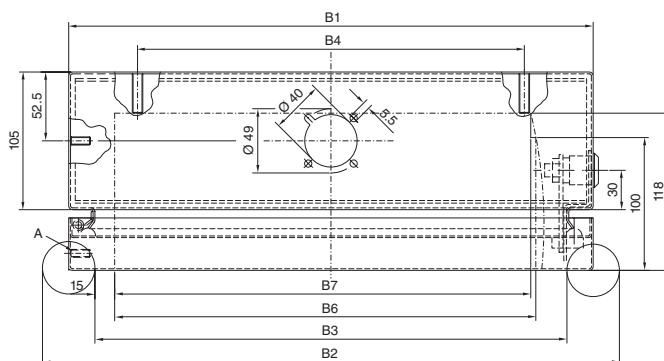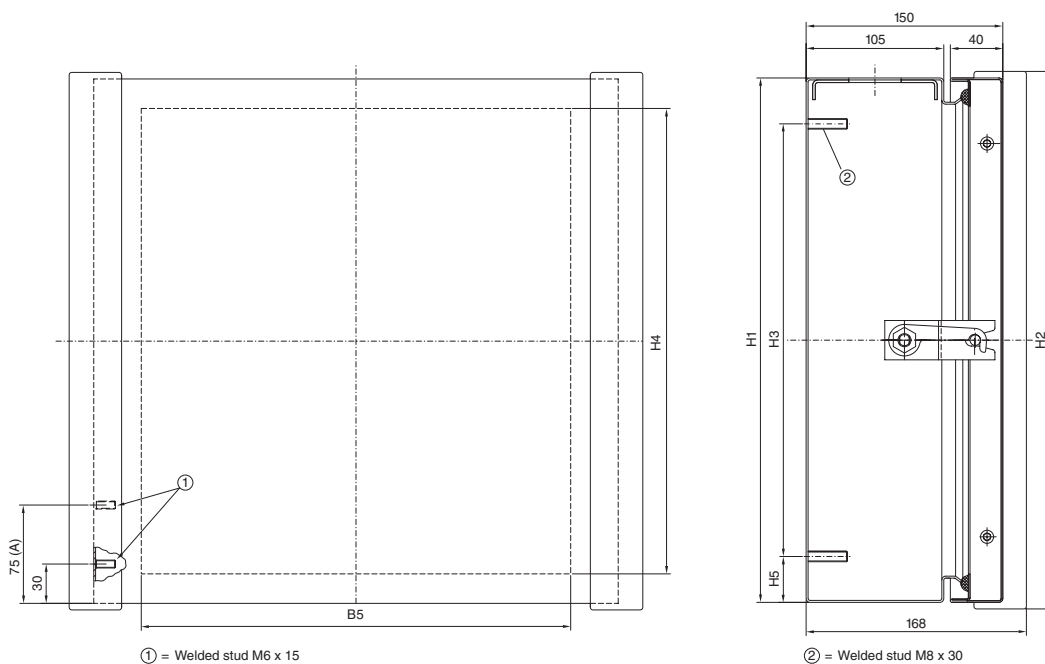**Protection category:**
IP 65 to EN 60 529/10.91

Handle strips
Made of plastic, available on request.

Enclosure attachment
with pre-fitted screw for location purposes.
See page 37.

Connector gland
for 2 cables up to 8 mm diameter.
Model No. SZ 2400.300.
See Innovations 2002, p. 35.

① = Welded stud M6 x 15

② = Welded stud M8 x 30

Supply includes:
All-round sealed enclosure,
with cutout and reinforcement
for support arm system,
fastener with guide plate.
Door with sealing frame and side handle
strips.

Support arm connection	Door hinge
top	left
bottom	right

	Packs of	300	400	400	600	Page
Width (B1) in mm		300	400	400	600	Page
Height (H1) in mm		300	300	400	400	
Depth (T1) in mm		150	150	150	150	
Model No. CP	1	**6535.010**	**6536.010**	**6538.010**	**6539.010**	
B2 = Enclosure width with handle strips		340	440	440	640	
B3 = Clearance opening, front		260	360	360	560	
B4 = Spacing of mounting plate attachment		215	295	295	510	
B5 = Max. front cutout, width		225	325	325	525	
B6 = Hinged width for depth 100 mm		220	320	320	520	
B7 = Hinged width for depth 138 mm		212	317	317	519	
H2 = Enclosure height with handle strips		310	310	410	410	
H3 = Spacing of mounting plate attachment		250	250	330	330	
H4 = Max. front cutout, height		255	255	355	355	
H5 = Distance from base – mounting plate attachment		25	25	35	35	
Weight (kg)		6.3	7.5	8.8	12.1	

Accessories

Matching mounting plate from AE			1033.600	1030.600	1380.600	1039.600	Cat. 30 68
	ID No.		271926	274131	271548	271351	
Support rails* SZ	**Model No. SZ**	10	2316.000	2317.000	2317.000	2319.000	Cat. 30 983

Lock systems
Standard double-bit lock insert may be exchanged for 41 mm lock inserts, plastic handle and T handle, version C
see Cat. 30, page 940 – 942.

To order operating housings in 1.4401 (AISI 316), please change the last three digits of the Model No. to .310, and for 1.4571, change to .410.
Delivery times available on request.
* = Only with vertical attachment of punched rail 23 x 23 mm see Cat. 30, page 976.

■ □ □ □ □ □ Rittal Stainless steel brochure

PE conductor connection point in the door.

Cam with guide piece.

Support arm cutout with additional reinforcement plate.

➕ **Accessories:**

see page 70/71
or refer to index.

Material:
Enclosure and door:
Stainless steel 1.4301
Handle strips: Plastic approved for use with foodstuffs,
RAL 5002 (ultramarine blue)

Surface finish:
Brushed, grain 240

Protection category:
IP 66 to EN 60 529/10.91

Modifications:
● Separate keyboard housing
● Other sizes
● Modified support arm cutout or door hinge
● Holes and cutouts for switches and operator panels
on request.

Semi-cylinder lock
For retro-fitting to stainless steel enclosures with cam lock.
See page 24.

Cable fastening
screw-fastened.
See Cat. 30, page 1010.

The alternative. AE stainless steel, rear door, support arm connection and handle strips available on request.
See page 18.

■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure

Support arm system

In conjunction with special command panels, terminal boxes 120 mm deep and compact enclosures AE made from stainless steel, the support arm system is particularly well-suited to situations where corrosion protection and hygiene are paramount.

A tilting adaptor and housing coupling may optionally be mounted at the top or bottom of the enclosure. **They are not suitable for use as the base point of a system.** For such purposes, we recommend wall and base mountings or, for larger heights, an additional pillar made from steel tubing or stainless steel, available on request.

Load specifications

Jib length in mm (dimension B)	Permissible static load* (N)
500	800
1000	400
1500	250

* For a maximum dimension A and C of 800 mm

Material:
Stainless steel 1.4305

Support section

Seven standard items are available off the shelf, which can either be tailored to your individual requirements by sawing to length.

Material:
Stainless steel 1.4301

Surface finish:
Brushed, grain 240

Dimensions:
External diameter: 48 mm
Wall thickness: 3.6 mm

Weight:
4.3 kg/m
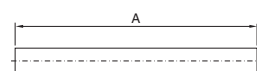
By special request, other sizes feasible per specification.

Order example:
U-bend = CP 6660.200
Dimension A = 300 mm
Dimension B = 800 mm
Dimension C = 240 mm

The minimum dimensions must be adhered to, because of the bending radius and immersion depth of the housing coupling or wall/base mounting.

Straight
$A_{min.}$ = 100 mm,
$A_{max.}$ = 2000 mm

A mm	Model No. CP
500	**6660.050**
1000	**6660.010**
2000	**6660.020**
per specification A =	**6660.000***

L-bend
$A_{min.}$ = $B_{min.}$ = 240 mm,
$B_{max.}$ = 1500 mm
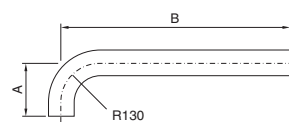
A mm	B mm	Model No. CP
240	500	**6660.110**
500	1000	**6660.120**
per specification A =	per specification B =	**6660.100***

U-bend
$A_{min.}$ = $C_{min.}$ = 240 mm,
$B_{min.}$ = 410 mm,
$B_{max.}$ = 1500 mm
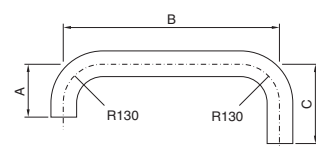
A mm	B mm	C mm	Model No. CP
240	800	800	**6660.210**
240	500	500	**6660.220**
per specification A =	per specification B =	per specification C =	**6660.200***

* Extended delivery times

Tilting adaptor, 10°

For mounting between operating housing and
● Enclosure attachment CP 6664.500
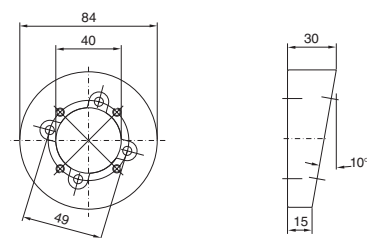 or
● Housing coupling CP 6664.000
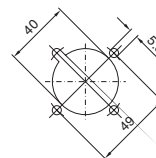
Material:
Stainless steel 1.4305

Weight	Model No. CP
0.7 kg	**6664.100**

Supply includes:
1 set =
1 tilting adaptor,
4 assembly screws,
1 seal.

Mounting cutout

Enclosure attachment

For rigid fastening of the enclosure to the support section.
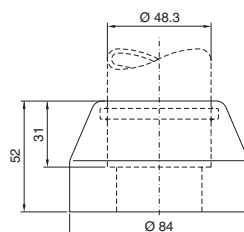
Material:
Stainless steel 1.4305

Note:
For assembly of a modular, stainless steel pedestal 2 packs are required.

Weight	Model No. CP
1.0 kg	**6664.500**

+ **Accessories:**

Enclosure reinforcement,
see page 41.

Mounting cutout
for pedestal, buttom
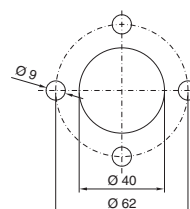
Mounting cutout,
for enclosure
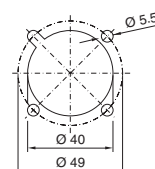
Housing coupling

For mounting on the vertical part of the support arm system, rotation range approximately 350°, lockable with knurled screw.

Material:
Stainless steel 1.4305

Supply includes:
1 set =
1 housing coupling,
2 assembly screws for support sections,
4 assembly screws for enclosure,
1 seal for support sections,
1 seal for enclosure.

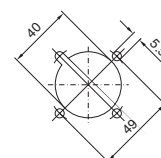| Weight	Model No. CP
1.1 kg	**6664.000**

+ **Accessories:**

Enclosure reinforcement,
see page 41.

Mounting cutout
Enclosure

■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure
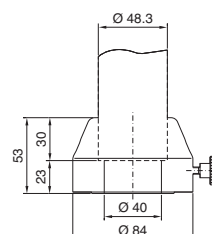
Wall/base mounting, rigid

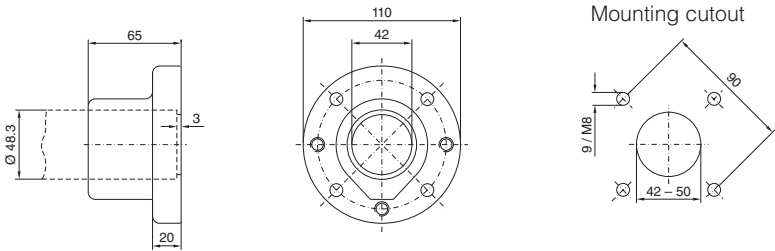For attachment of the support arm system to vertical or horizontal surfaces.

Material:
Stainless steel 1.4305

Supply includes:
1 set =
1 wall/base mounting,
2 assembly screws for support section,
3 adjusting screws,
1 seal for support sections,
1 seal for wall/base.

Weight	Model No. CP
1.6 kg	**6663.000**

+ Accessories:

Wall consoles,
see page 40.

Mounting cutout

Swivel base mount

For external mounting on
● Horizontal surfaces
● Wall consoles (only with CP 6663.500)

Rotation range approximately 350°, may be limited in 60° increments using the supplied plate and clamped with a knurled screw.

Material:
Stainless steel 1.4305

Supply includes:
1 set =
1 base mount,
2 assembly screws for support section,
1 seal for support section,
1 seal for surface or wall bracket.

Attachment	Weight	Model No. CP
M8 thread at rear	1.9 kg	**6663.500**
Front hole Ø 9 mm	2.1 kg	**6663.400**

✚ **Accessories:**

Wall brackets for base mounting
CP 6663.500,
see page 40.
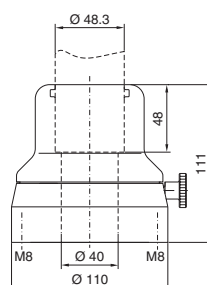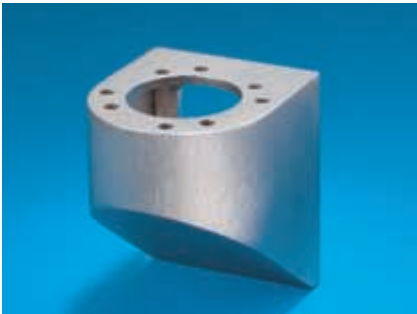
Mounting cutout
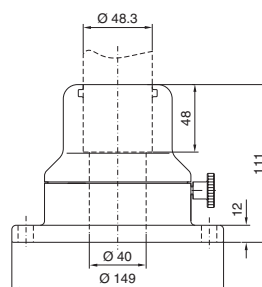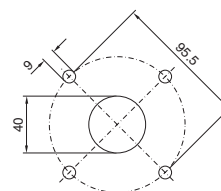
Mounting cutout
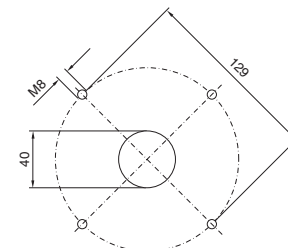
Wall bracket

With holes for mounting
- Swivel base mount CP 6663.500 with 4 screws
- Wall/base mounting, rigid, CP 6663.000 with 4 screws and nuts, including seal to the vertical surface and an additional seal for replacement when mounting CP 6663.000.

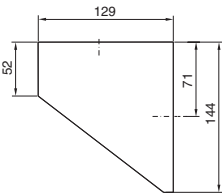| Attachment	Weight	Model No. CP
M8 thread at rear	1.5 kg	**6665.000**
Front hole Ø 9 mm	1.8 kg	**6665.500**

Material:
Stainless steel 1.4301
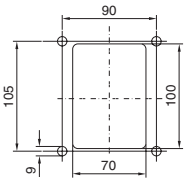
Surface finish:
Brushed, grain 240

Example: CP 6665.000 + CP 6663.000
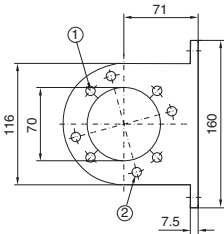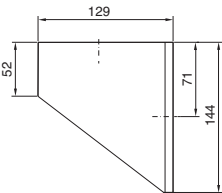
Rear fastening
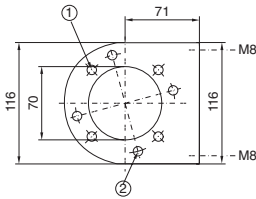
Mounting cutout

① = Hole for CP 6663.000
② = Hole for CP 6663.500

Example: CP 6665.500 + CP 6663.500

Front fastening

Mounting cutout

① = Hole for CP 6663.000
② = Hole for CP 6663.500

■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure
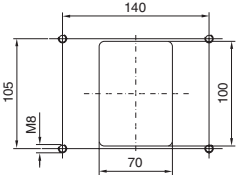
Pedestal, modular, small

For configuring compact operator stations.

Can be assembled from the following modules:	Model No. CP	Page
Ⓐ Enclosure reinforcement	6143.310	41
Ⓑ Enclosure attachment top	6664.500	37
Ⓒ Support section, straight (can be shorted by cutting off individual lengths)		
500 mm	6660.050	36
1000 mm	6660.010	36
2000 mm	6660.020	36
Ⓑ Enclosure attachment bottom	6664.500	37
Ⓓ Pedestal base plate, small	6143.300	41

* with support section length of 1000 mm
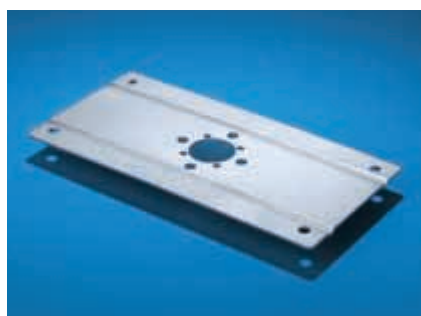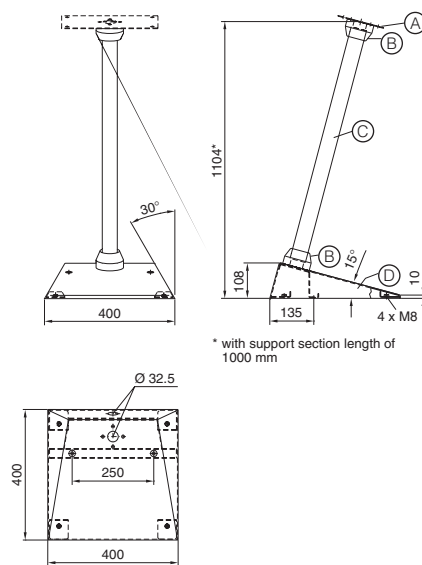
Enclosure reinforcement

For exterior or interior reinforcement of enclosures of the appropriate size. Smaller enclosures may also be installed directly without a flange.

For use with
● enclosure attachment CP 6664.500
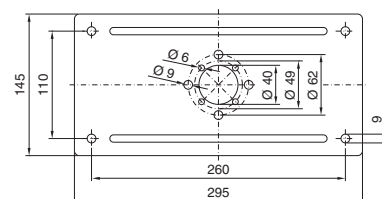● housing coupling CP 6664.000

Material:
Stainless steel 1.4301

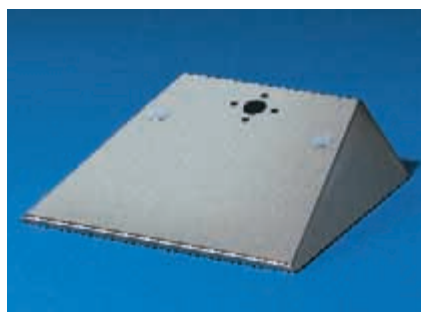**Surface finish:**
Brushed

Supply includes:
Including assembly parts for the enclosure and support section plus 2 seals.

Packs of	Model No. CP
1	6143.310

✚ Accessories:

Enclosure attachment CP 6664.500, see page 37.
Housing coupling CP 6664.000, see page 37.

Pedestal base plate, small

With reinforcement bracket for assembling a stainless steel support section via an enclosure attachment.

● With one hole at the rear for commercially available cable conduit gland M20.
● With two holes at the top (incl. sealing bungs) for lower base attachment cross member.
● Prepared on the inside for a cable clamp DK 7077.000 or DK 7078.000 for strain relief.

Material:
Stainless steel 1.4301

Surface finish:
Brushed

Supply includes:
Assembly parts for enclosure attachment plus seal.

Note:
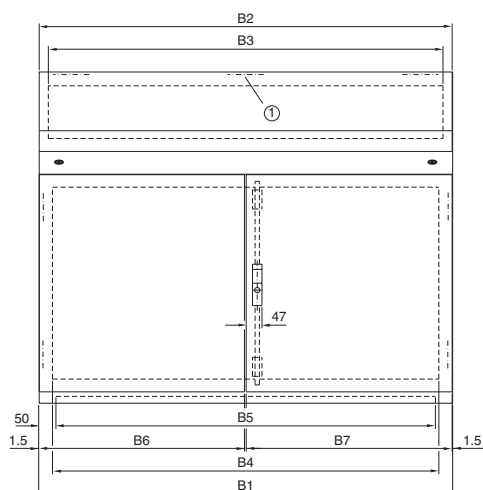Commercially available screws up to M8 may be used for floor mounting.

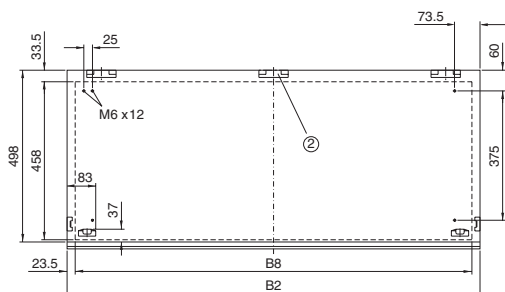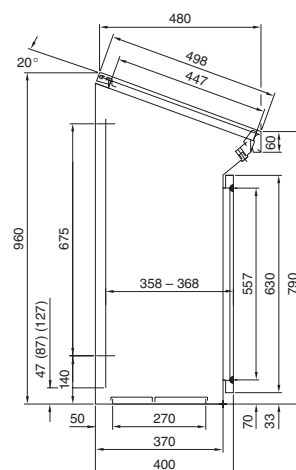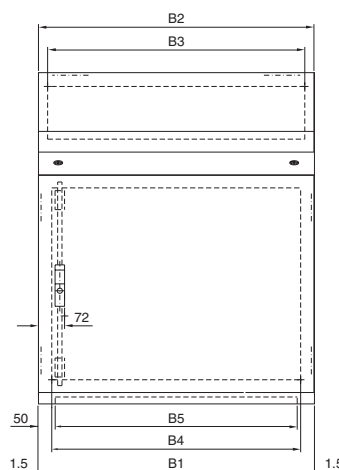| Packs of	Model No. CP
1	6143.300

✚ Accessories:

DK 7077.000 or DK 7078.000 cable clamp see Cat. 30, page 981.
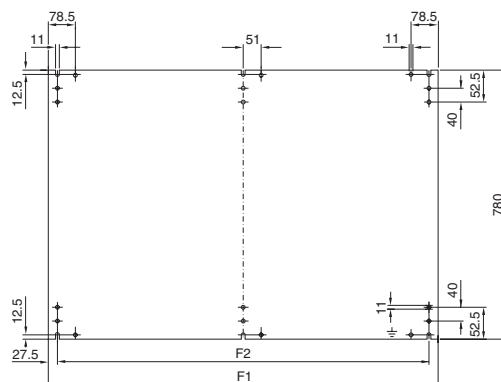
AP 2685.600 / AP 2686.600　　　　　　　　**AP 2683.600 / AP 2684.600**

① = No hinge for AP 2685.600

② = No hinge for AP 2683.600 / AP 2684.600

Supply includes:
Enclosure, closed back and sides,
door or double door at the front, with rod
type lock console lid with lid stay and
stainless steel cam lock internally latched,
two-part gland plate,
zinc-plated mounting plate.

Width (B1) in mm	Packs of	600	800	1000	1200	Page
Height in mm		960	960	960	960	
Depth in mm		400/480	400/480	400/480	400/480	
Model No. AP	1	**2683.600**	**2684.600**	**2685.600**	**2686.600**	
B2 = Width		597	797	997	1197	
B3 = Clearance width, top		544	744	944	1144	
B4 = Clearance width, front		524	724	924	1124	
B5 = Clearance width, bottom		500	700	900	1100	
B6 = Width of door, left		–	–	495	595	
B7 = Width of door, right		–	–	497	597	
B8 = Section length of holes		500	700	900	1100	
F1 = Mounting plate width		530	730	930	1130	
F2 = Distance between mounting holes		475	675	875	1075	
Doors		1	1	2	2	
Weight (kg)		52.0	65.2	79.5	90.3	
Accessories						
Base/plinth SO	Height 100 mm	1	2865.000	2869.000	2867.000	2870.000	63
	Height 200 mm	1	2875.000	2878.000	2885.000	2886.000	63

Lock systems
Standard double-bit lock insert of locking rod may be exchanged for 27 mm lock inserts, type A,
see Cat. 30, page 942 and lock systems Ergoform-S, see Cat. 30, page 939.

To order one-piece consoles in 1.4401 (AISI 316), please change the last three digits of the Model No. to .300, and for 1.4571, change to .400.
Delivery times available on request.

■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure

The lid support is secured to prevent accidental closure.

The mounting plate is height-adjustable by 2 x 40 mm, e.g. for deep equipment installed in the lid or cable entry from the rear.

+ Accessories:

see page 63/64
and page 70/71
or refer to index.

Material:
Stainless steel 1.4301
Enclosure: 1.5 mm
Door or double door and
console lid: 2.0 mm
Mounting plate:
Sheet steel 3.0 mm

Surface finish:
Enclosure, door and console
lid: Brushed, grain 120
Mounting plate: Zinc-plated

Protection category:
IP 55 to EN 60 529/10.91
Complies with NEMA 12

Levelling feet
for base/plinth to compensate
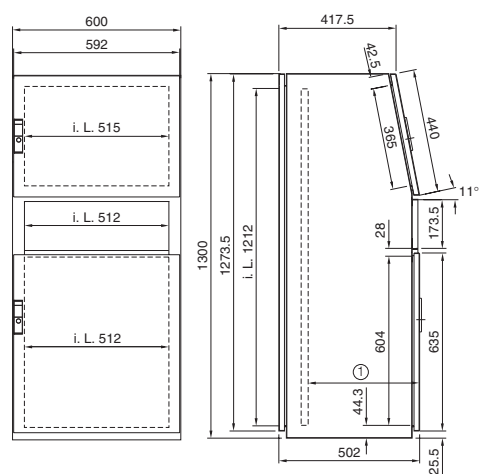for floor irregularities.
See page 64.

IP 67 mouse and mouse pad
See Cat. 30, page 1004.

Wall bracket, stainless steel
mounted on the rear panel for
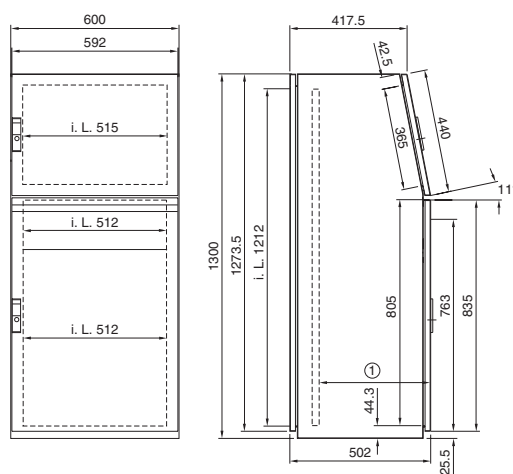additional command panel.
See page 40.

AP 2688.600 front door, short   **AP 2689.600 front door, tall**   **Mounting plate**
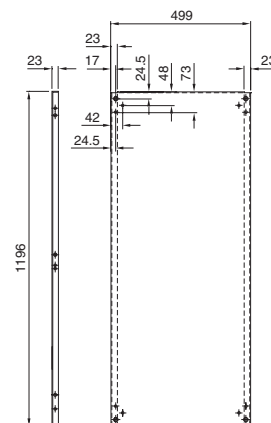

i.L. =
Clearance width

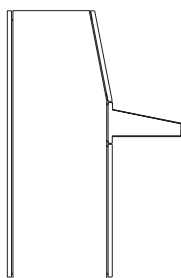① = from 200 to 400 mm adjustable
on a 25 mm pitch pattern

① = from 200 to 400 mm adjustable
on a 25 mm pitch pattern

Order examples

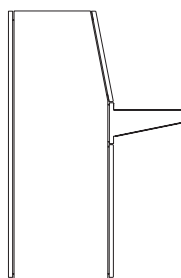**AP 2688.600**
Front door, short
AP 2690.000
Desk section

AP 2688.600
Front door, short
AP 2690.000
Desk section
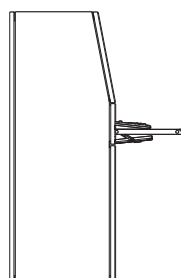
AP 2688.600
Front door, short
AP 2691.000
Keyboard drawer

AP 2689.600
Front door, tall

Supply includes:
Enclosure closed top and sides,
rear door,
three-part gland plates,
mounting plate.

AP 2688.600
Three-part front:
Top door inclined at 11°, r/h hinge.
Space for
– desk section AP 2690.000
– keyboard drawer AP 2691.000.
Bottom door, r/h hinge.

AP 2689.600
Two-part front:
Top door inclined at 11°, r/h hinge.
Bottom door, r/h hinge.

	Packs of	Universal console		Page
		with short front door	with tall front door	
Width in mm		600	600	
Height in mm		1300	1300	
Depth in mm		500	500	
Model No. AP	1	**2688.600**	**2689.600**	
Weight (kg)		83.3	84.5	
Essential accessories				
Desk section AP	1	2690.000	–	49
or Keyboard drawer AP	1	2691.000	–	49
Accessories for external mounting				
Base/plinth SO	Height 100 mm	1	2868.000	2868.000	63
	Height 200 mm	1	2876.000	2876.000	63
Base/plinth trims, modular SO	4	2908.000	2908.000	64

Lock systems
Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A – see Cat. 30, page 942,
and Ergoform-S lock system – see Cat. 30, page 939.

To order universal consoles in 1.4401 (AISI 316), please change the last three digits of the Model No. to .300, and for 1.4571, change to .400.
Delivery times available on request.

■ □ □ □ □ □ Rittal Stainless steel brochure

All-round punchings on a 25 mm pitch pattern for fast, versatile installation.
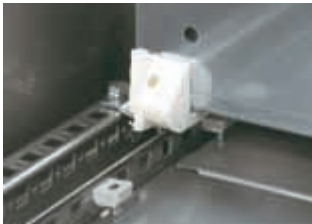
Mounting plate with slide block and runner for convenient installation and depth-variable attachment.

Accessories:

see page 48/49
and page 70/71
or refer to index.

Material:
Stainless steel 1.4301
Enclosure: 1.5 mm
Door: 2.0 mm
Mounting plate:
Sheet steel 3.0 mm, zinc-plated

Surface finish:
Brushed, grain 120

Protection category:
IP 56 to EN 60 529/10.91
Complies with NEMA 12

Connector gland
for 3 cables up to a diameter of 6 mm.
Model No. SZ 2400.500.
See Innovations 2002, p. 35.

Rail for EMC screening plate and strain relief
See Innovations 2002, page 74.

Mouse pad support
For desk section, mouse and mouse pad IP 67.
See Cat. 30, page 1004/1005.

■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure

PC 4650.000
with keyboard drawer
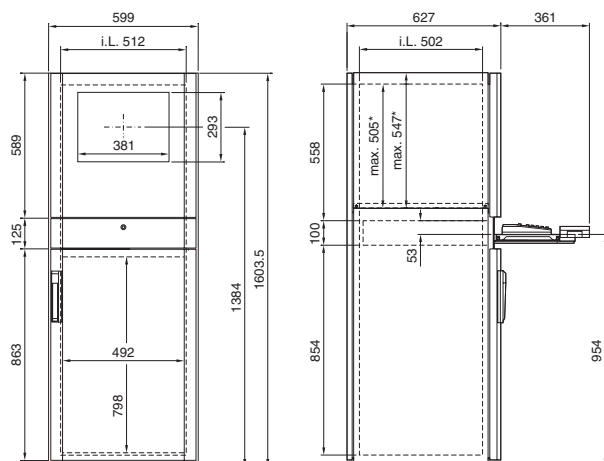
PC 4650.704
with desk section
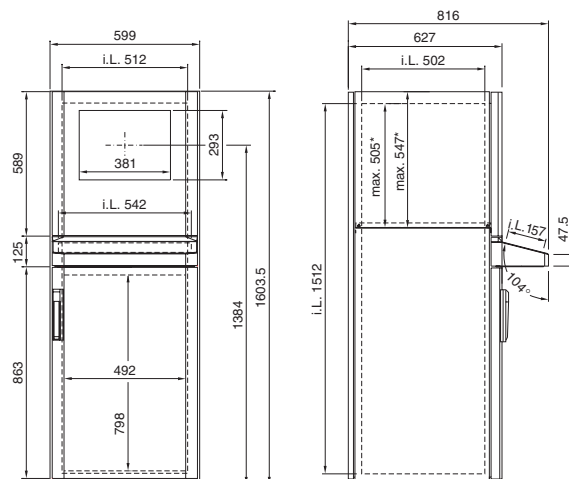
* adjustable in the 25 mm pitch

i. L. = Clearance width

On request:

PC enclosure system with mounting compartment, large and keyboard drawer
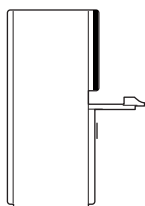
PC enclosure system with keyboard drawer

PC enclosure system with desk section
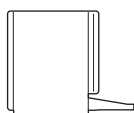
Supply includes:
Enclosure with closed sides, top and bottom
Rear door with locking rod and double-bit insert
Three-part gland plates
Component shelf for monitor, see description opposite
Bottom: Door, r/h hinge, with Ergoform-S lock system and double-bit insert.

PC 4650.000
Keyboard drawer
● Lock insert, lock no. 3524 E
● Front can be folded down for hand rest
● Mouse pad support (also suitable for IP 67 mouse), usable optionally l/h or r/h side
● Cable support, hinged

PC 4650.704
Desk section
● Blanking panel top and bottom
● Styling strip made of food-safe plastic

|					Page
Width in mm	Packs of		600	600	Page
Height in mm			1600	1600	
Depth in mm			620	620/820	
Model No. PC	1		**4650.000** [1]	**4650.704** [2]	
Weight (kg)			115.0	123.0	
Accessories for external mounting					
Base/plinth SO	Height 100 mm	1	2855.000	2855.000	63
	Height 200 mm	1	2877.000	2877.000	63
Levelling feet, 100 mm high SO		1 set	2859.000	2859.000	64
Base/plinth trims, modular SO		4	2913.000	2913.000	64
Accessories for interior installation					
Mounting angles for 482.6 mm (19″)		4	4632.000	4632.000	Cat. 30, 1026
Adaptor pieces, 482.6 mm (19″)		8	4547.000	4547.000	Cat. 30, 1026
Disk box SZ		1	2446.000	2446.000	Cat. 30, 951

Lock systems
Standard double-bit lock insert may be exchanged for 27 mm lock inserts, Design A, see Cat. 30, page 942.
Rear door prepared for installation of Ergoform-S lock system, see Cat. 30, page 939.

[1] Order enclosures in 1.4401 (AISI 316) with extension no. .300, in 1.4571 with extension no. .400. Delivery times available on request.
[2] Order enclosures in 1.4401 (AISI 316) with extension no. .304, in 1.4571 with extension no. .404. Delivery times available on request.

■ □ □ □ □ □ Rittal Stainless steel brochure

Release mechanism in the keyboard drawer area for monitor door.

Mouse pad support pulled out from left or right side.
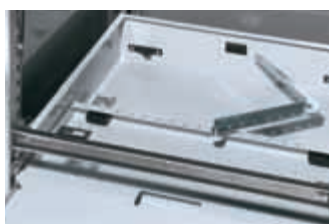
Cable support, hinged on the keyboard extension.

✛ Accessories:

see page 48/49
and page 70/71
or refer to index.

Material:
Stainless steel 1.4301
Enclosure:
10-fold profiled, 1.8 mm
Rear door: 2.0 mm
Gland plates: 1.5 mm
Monitor field with single-pane
safety glass for 19˝ screen
diagonal.

Surface finish:
Brushed, grain 240

Protection category:
IP 55 to EN 60 529/10.91
Complies with NEMA 12
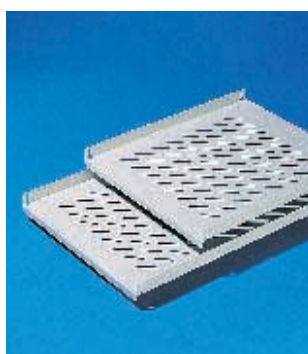
Component shelves
installable in the height on a
25 mm pitch pattern.
See page 49.

PC mobile workstation
Plenty of space for tower PCs,
printers, and paper.
See page 48.

Connector grommet
dividable for keyboard, mouse,
or scanner cables.
See Innovations 2002,
page 35.

■ □ □ □ □ □ Rittal Stainless steel brochure

Mobile PC workstation

for Tower PC, printer, USB, Server, etc.

Option of installing in 600 mm wide enclosures, 600 mm deep.

Load capacity:
75 kg

Material:
Sheet steel

Colour:
RAL 7035

Supply includes:
Mobile workstation consisting of:
1 support frame,
2 shelves, top/bottom,
1 set of telescopic slides,
1 handle,
1 cable support, hinged,
mounting accessories.

Packs of	Model No. PC
1	**4641.000**

! Also required:

Punched sections with mounting flanges, punched sections without mounting flanges,
see table.

✛ Accessories:

Fastening bolts DK 7115.000,
see Cat. 30, page 993.

For enclosure depth mm	For installation in	
	TS 2 punched sections with mounting flanges, see Cat. 30, page 974	ES, PC 2 punched sections without mounting flanges*, see Cat. 30, page 977
600	TS 8612.060	PS 4376.000

* plus
4 support brackets PS 4183.000, see Cat. 30, page 979,
8 threaded blocks M6 PS 4162.000, see Cat. 30, page 982,
8 screws M6 SZ 2504.500, see Cat. 30, page 981.
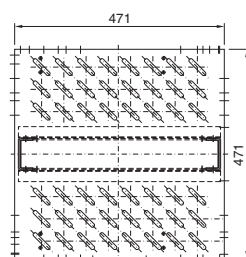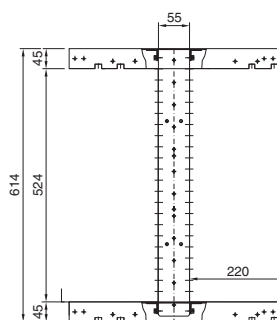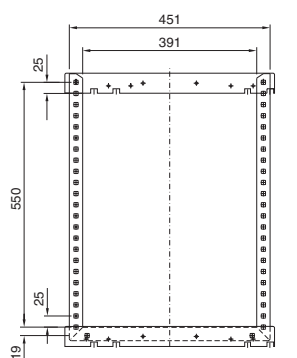
Shelf

for PC workstation
To accommodate additional equipment such as modems, power packs etc. or simply as a paper tray.
The shelf may be mounted to the workstation with height adjustment on a 25 mm pitch pattern.

Material:
Sheet steel

Colour:
RAL 7035

Packs of	Model No. PC
1	**4642.000**

Supply includes:
Shelf including assembly parts.

✛ Accessories:

Fastening bolts DK 7115.000,
see Cat. 30, page 993.

■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure

Keyboard drawer

For a maximum keyboard width of 500 mm.
Drawer with mouse pad at the front.
Includes assembly material for attaching to
universal console AP 2688.600.

	Model No. AP
Keyboard drawer	**2691.000**

Material:
Stainless steel 1.4301

Surface finish:
Brushed

Desk section

Solid sides and front,
cover plates for top and bottom. May be
attached with either the inclined or straight
edge on top, by rotating through 180°.
Includes assembly material for attaching to
universal console AP 2688.600.

	Model No. AP
Desk section	**2690.000**

Material:
Stainless steel 1.4301

Surface finish:
Brushed
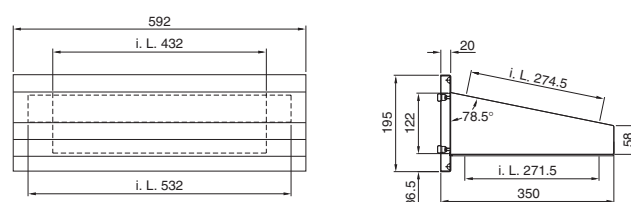
i.L. = Clearance width
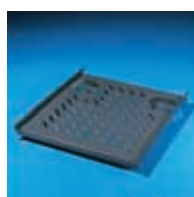
Component shelf, static installation

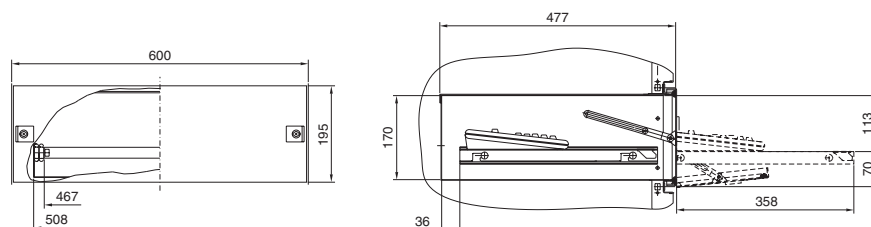To match the enclosure depth, for direct
mounting in the vertical system punchings.
Simply locate into 4 prefitted screws and
secure.

Load capacity:
50 kg

Material:
Sheet steel 1,5 mm

For ES, PC

For TS

For ES, PC, colour RAL 7035

For enclosure depth*	Model No. PC
620 mm	**4619.660**

For TS, colour RAL 7015

For enclosure depth*	Model No. PC
600 mm	**8800.900**

* Enclosures without mounting plate.
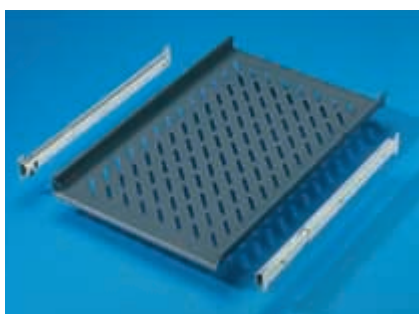
Component shelf, pull-out

For direct attachment on the enclosure
frame. Additional punched sections are not
required.

Material:
Sheet steel

Colour:
RAL 7015 (slate grey)

Load capacity:
40 kg

For depth mm	Model No. IW
600	**6902.960[1]**

[1] May also be mounted in 800 mm deep
enclosures based on TS (without mounting plate)
(rear attachment extendible).

Supply includes:
Component shelf with 2 telescopic slides
(supplied loose).

■ □ □ □ □ □ Rittal Stainless steel brochure

Rittal has shaped and revolutionised the range of benefits afforded by large enclosures with constant innovations.

Whether used as a free-standing or a bayed enclosure, these systems offer the maximum in usable space. All this, plus excellent solution diversity with system accessories.

The integration e.g. of climate control components and system preparations for electronics make TS and ES enclosures ideally suited to demanding IE and IT applications. Here too, system integration is based on the modular approach.

Standard modules, rather than customisation, offer infinite solution diversity, coupled with astonishing time and cost savings.

TS 8 baying systems

- Frame structure made from solid sections with 25 mm system punchings
- Lockable door with four-point lock and four hinges (130°), adjacent door with separate latching top and bottom, four hinges (130°)
- Potential equalisation via the assembly components with:
  – Roof plate
  – Rear panel with 8/10-fold screw fastening
  – Three-piece gland plates
  – Depth-adjustable mounting plate

TS baying system (Protection category IP 55)				
W mm	H mm	D mm	Model No. TS	Page
800	1800	400	8454.600	
1200	1800	400	8456.600	
600	1800	500	8457.600	
800	1800	500	8455.600	
1200	1800	500	8453.600	54/55
600	2000	600	8452.600	
800	2000	600	8450.600	
1200	2000	600	8451.600	

Free-standing enclosures ES 5000

- Enclosure sealed at the sides and top, with 25 mm system punchings
- Lockable door with three-point lock and three hinges (130°), adjacent door latched via lockable door, three hinges (130°)
- Rear panel with 6/8-fold screw fastening
- Three-piece gland plates
- Depth-adjustable mounting plate

ES free-standing enclosures (Protection category IP 56)

W mm	H mm	D mm	Model No. ES	Page
600	1600	400	**5450.600**	
600	1800	500	**5451.600**	
800	1800	500	**5452.600**	
800	2000	600	**5453.600**	58/59
1000	1800	400	**5454.600**	
(Protection category IP 55)				
1200	2000	500	**5455.600**	

The enclosure Model Numbers listed here apply to the variant in 1.4301 (AISI 304). For variants in 1.4401 (AISI 316) or 1.4571, Model Numbers can be found on the respective product page.

Approvals	TS baying systems	ES free-standing enclosures
UL	●	●
CSA	●	●
TÜV	●	●
Germanischer Lloyd	●	●
Norske Veritas	–	●
Russian Maritime Register of Shipping	●	●
Lloyds Register of Shipping	●	●
Bureau Veritas	●	●
VDE	●	●

■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure

TS 8 – the Rittal Top enclosure system now available with more variation options with standardised components. This variability is the key to perfect, individual solutions and is outstanding value for money. This is why the TS 8 in stainless steel is technically and economically the answer for all industries that demand corrosion protection and hygiene.

The sum of these useful ideas is ri-volutionary.

- The core of the TS 8 is the vertical section. It is the focal point of a new dimension of usability.
- Considerably more interior space, more effectively used with its two-level concept.
- More options with fewer parts with symmetry on all sides.
- Open on all sides: each of the four TS vertical sections can house the hinges for a door.
- Enclosures can be bayed to the left, right, front, back, around corners, and when needed top and bottom.

More space and infinite possibilities with the two-level concept!
Outer level: up to 15% more space.
Inner level: more options with the classic enclosure mounting surface.
Ingenious: Installation is feasible on both levels simultaneously. The space gained offers a lot of room for creative ideas, e.g. separate cable entry or new options for climate control.

The TS 8 savings concept

- Save time through simplification in installation.
- When installing, save through more options with fewer parts.
- Automatically save through standard, integral features.
- Save through versatile components.
- Save through symmetry. Symmetry makes many things easier, from planning to installing equipment.
- Save through security, because risk minimisation is an important factor in cost-effectiveness.
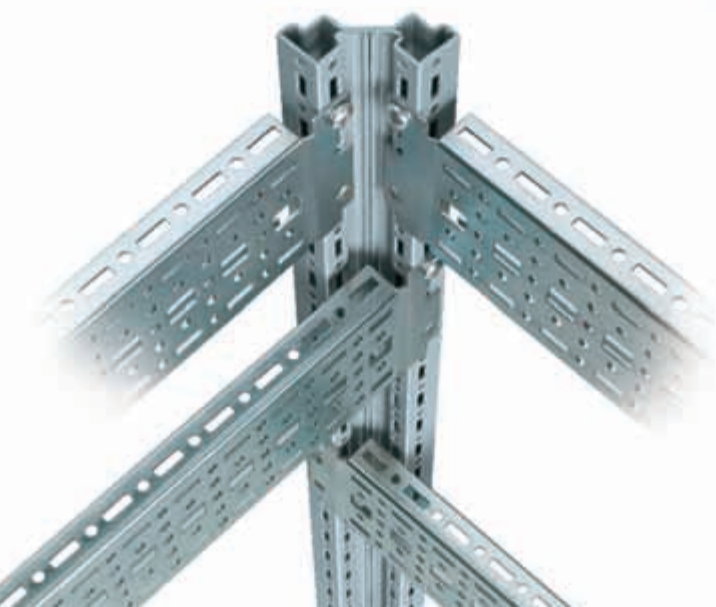
Each detail, a clever solution!
The integral channel above the seal on the horizontal frame section prevents liquid from collecting on the seals and penetrating the door or side panel when opened. Between bayed enclosures, the cover provides additional protection.

Perfect locking!
Optimum closure of the door is achieved via four locking points. The self-locking mechanics of the comfort handles are protected against accidental opening, such as, from vibration.

The adjacent door of double-door enclosures is secured through additional bolts on top and at bottom with interconnecting rods and handle from the middle outward.
Accidental opening of a heavily equipped adjacent door, such as with a cooling unit, is prevented. The lock system of the primary door is identical with single-door enclosures.

Cable entry: fast and sealed!
For cables up to 47 mm diameter, the cable entry plates in conjunction with the cable entry grommets offer an ingeniously simple and especially well sealed cable entry.
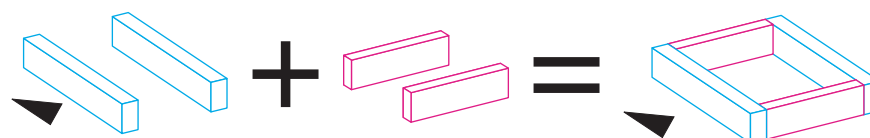
A model no. for the
base/plinth components
front and back.

A model no. for the
base/plinth trim pieces
at the side.

A complete **base/plinth.**

The modular base/plinth design with added-value!
Fewer parts, more options, lower costs!
The modular base/plinth design simply offers more: Cable entry variants for individual and bayed enclosures, cable clamping and routing as required.

Unlimited possibilities
Rittal offers a unique "Modular System" for accessories. Mechanical installation as well as equipment with many useful components is especially cost-effective and can be implemented rapidly.

■ □ □ □ □ □ Rittal Stainless steel brochure
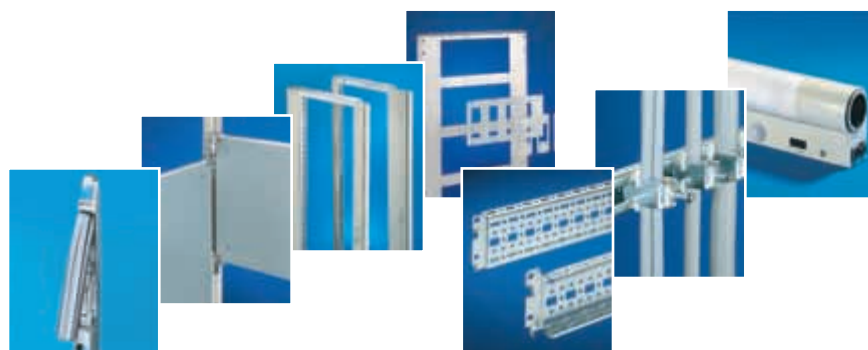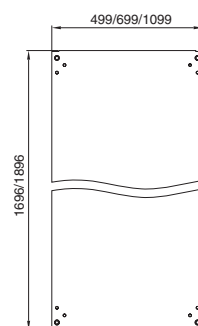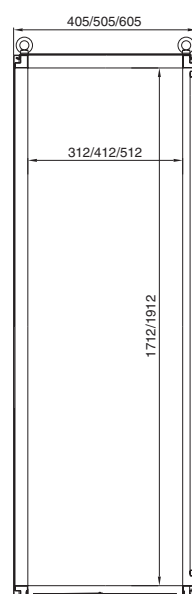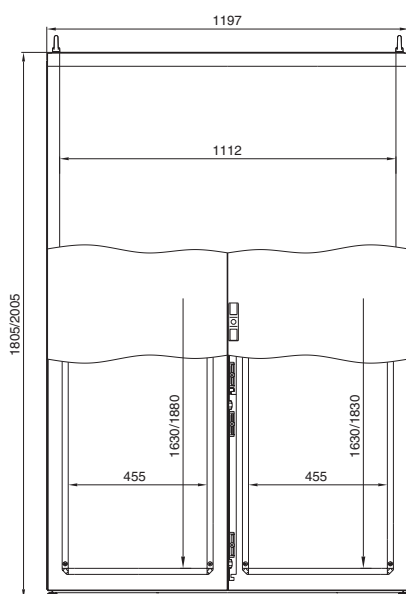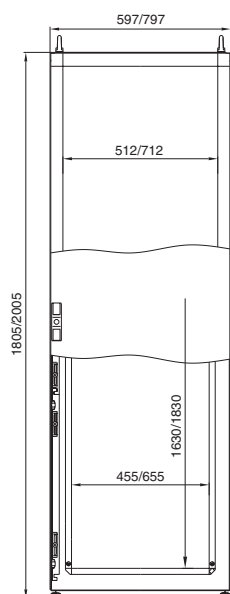
Mounting plate

Detail drawing
see page 56/57.

Supply includes	Material Stainless steel 1.4301	Surface finish
Enclosure frame	1.5 mm	Bare
Door(s)	2.0 mm	Exterior brushed, grain 240
Roof	1.5 mm	
Rear panel	1.5 mm	
Mounting plate	3.0 mm (sheet steel)	Zinc-plated
Gland plate, three-part	1.5 mm	Bare
2 depth stiffening supports (PS 4696.000, see Cat. 30, page 975) mounted in enclosure depth (only for 600 mm).		
Protection category IP 55 to EN 60 529/10.91, complies with NEMA 12		

Width in mm		Packs of	800	1200	600	800	1200	600	800	1200	Page
Height in mm			1800	1800	1800	1800	1800	2000	2000	2000	
Depth in mm			400	400	500	500	500	600	600	600	
Model No. TS		1	**8454.600**	**8456.600**	**8457.600**	**8455.600**	**8453.600**	**8452.600**	**8450.600**	**8451.600**	
Doors			1	2	1	1	2	1	1	2	
Weight (kg)			112.9	170.4	92.5	116.3	174.9	104.4	129.7	194.7	
Side panels		2	8700.840	8700.840	8700.850	8700.850	8700.850	8700.060	8700.060	8700.060	66
Base/plinth											
Components front and back	Height 100 mm	1 set	8701.800	8701.200	8701.600	8701.800	8701.200	8701.600	8701.800	8701.200	62
	Height 200 mm	1 set	8702.800	8702.200	8702.600	8702.800	8702.200	8702.600	8702.800	8702.200	62
Side trim pieces	Height 100 mm	1 set	8701.040	8701.040	8701.050	8701.050	8701.050	8701.060	8701.060	8701.060	62
	Height 200 mm	1 set	8702.040	8702.040	8702.050	8702.050	8702.050	8702.060	8702.060	8702.060	62
Trim panels, modular SO		4	2907.000	2907.000	2908.000	2908.000	2908.000	2913.000	2913.000	2913.000	64
Accessories											
Divider panel		1	8609.840	8609.840	8609.850	8609.850	8609.850	8609.060	8609.060	8609.060	Cat. 30, p. 906
Divider panel for module plates		1	–	–	8609.100	8609.100	8609.100	8609.130	8609.130	8609.130	Cat. 30, p. 907
Cable clamp rails		2	4192.000	4196.000	4191.000	4192.000	4196.000	4191.000	4192.000	4196.000	Cat. 30, p. 898
Cable entry plates, TS		2	8700.800	8700.120*	8700.600	8700.800	8700.120*	8700.600	8700.800	8700.120*	65
System support rails		2	4362.000	4363.000	4361.000	4362.000	4363.000	4361.000	4362.000	4363.000	Cat. 30, p. 899
Support strips for door		20	4598.000	4596.000	4596.000	4598.000	4596.000	4596.000	4598.000	4596.000	Cat. 30, p. 950
Wiring plan pocket, sheet steel		1	4118.000	4116.000	4116.000	4118.000	4116.000	4116.000	4118.000	4116.000	Cat. 30, p. 952

Lock systems
Standard double-bit lock insert may be exchanged for other inserts and comfort handle, see page 68.

* Packs of 4

To order enclosure in 1.4401 (AISI 316) use extension no. 300, in 1.4571 use extension no. 400. Delivery times available on request.

■ □ □ □ □ □ Rittal Stainless steel brochure

Mounting plate, zinc-plated, C fold at sides, depth-adjustable on the 25 mm pitch pattern.

Solid frame sections, punched on a 25 mm pitch pattern for universal interior installation. Vertical stays for two mounting levels.

For a reliable IP protection rating – adjacent door with top and bottom bolts as well as interconnecting rods with four bolts. Operated with the handle.

+ Accessories:

see page 62 – 69
and page 70/71
or refer to index.

Note:
Because of the material hardness, for component installation we recommend using the Torx screw SZ 2486.300, see page 67.

Cable duct
For direct assembly on the vertical enclosure profile.
See Cat. 30, page 964.

Baying cover
Keeps the seal free from liquids and dirt.
See page 67.

TS punched section with mounting flange 23 x 73 mm
with punchings on all sides for captive nuts/threaded blocks.
See Cat. 30, page 974.
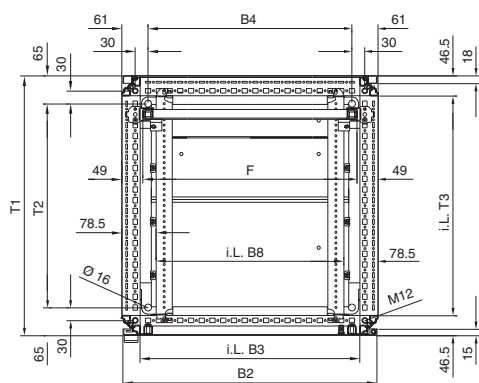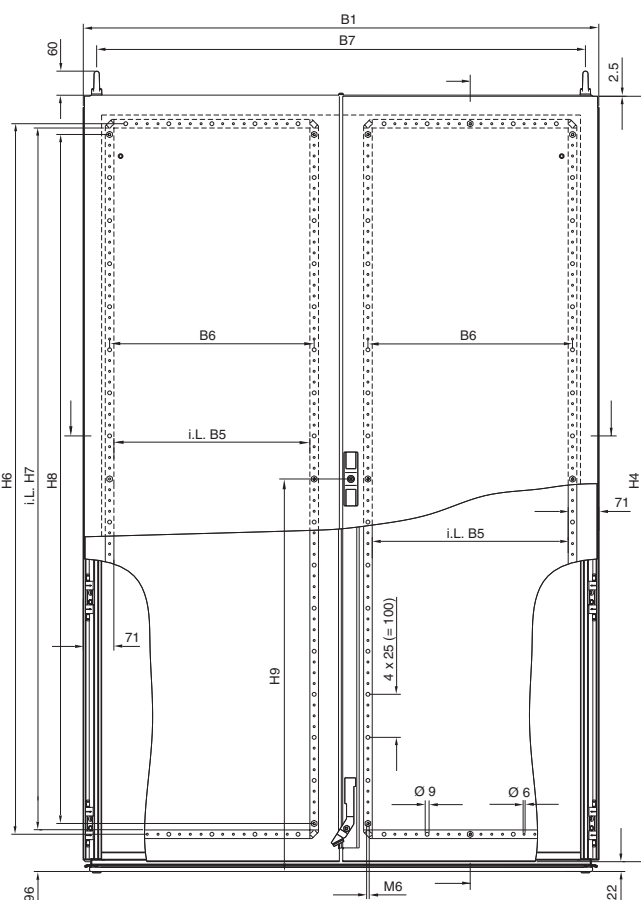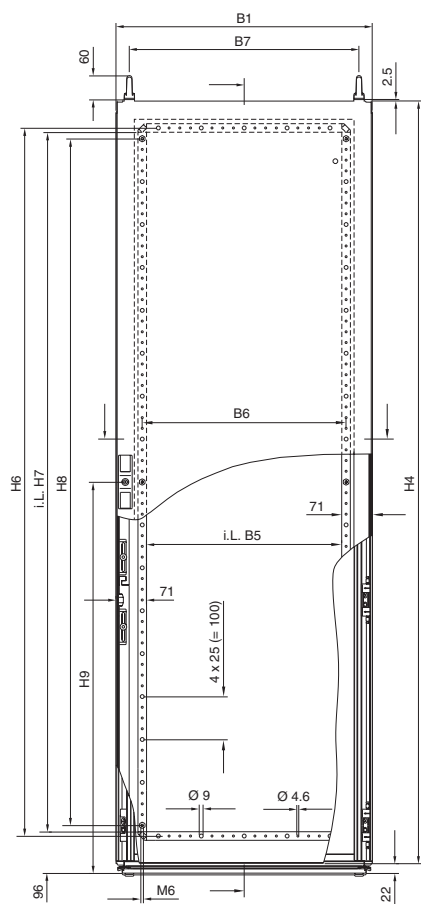
Base/plinth attachment: B4 x T2
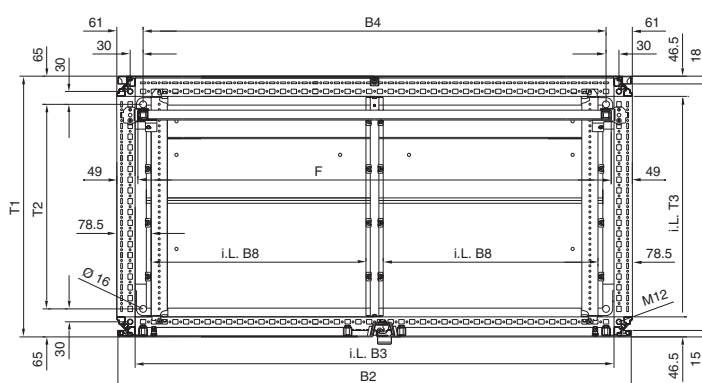
Base/plinth attachment: B4 x T2

i.L. = Clearance width

Note:
With fitted side panels, the overall width
(B1) is increased by 9 mm.
Between bayed enclosures, allow 3 mm for
the seal.

56

Dimensions in detail

Profile cross sections

i. L. = Clearance width

vertical

horizontal

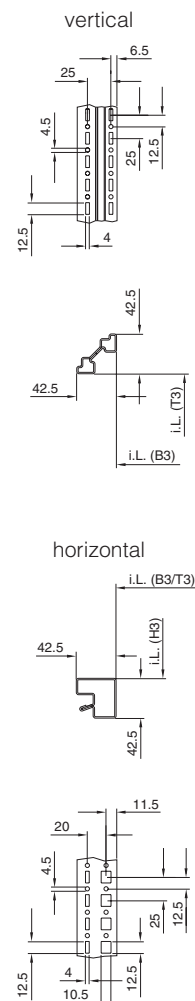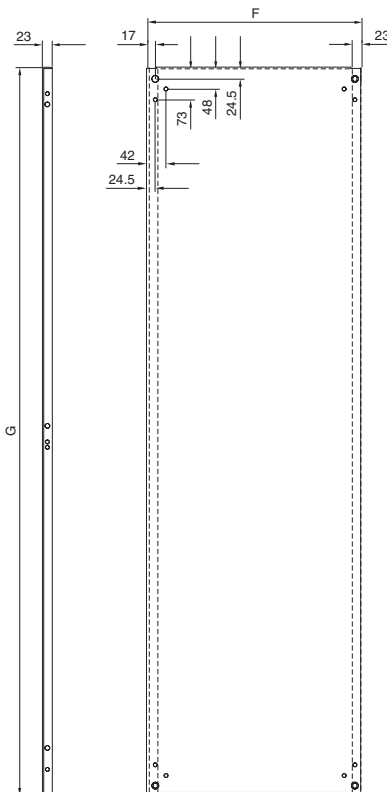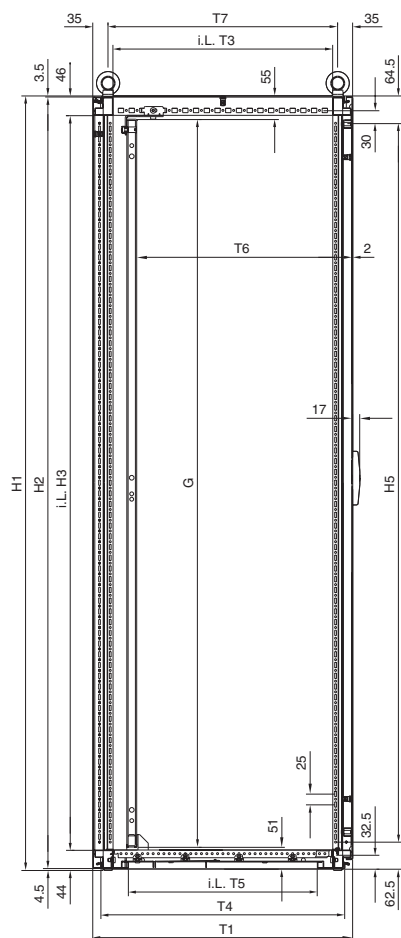| Enclosures		Widths								Heights									Depths							Mount. pl.	
Single-door	Two-door	B1	B2	B3	B4	B5	B6	B7	B8	H1	H2	H3	H4	H5	H6	H7	H8	H9	T1	T2	T3	T4	T5	T6	T7	F	G
8454.600		797	792	712	675	655	675	735	640	1805	1797	1712	1777.5	1675	1650	1630	1600	911	405	275	312	368	240	130 – 355	335	699	1696
	8456.600	1197	1192	1112	1075	455	475	1135	500	1805	1797	1712	1777.5	1675	1650	1630	1600	911	405	275	312	368	240	130 – 355	335	1099	1696
8457.600		597	592	512	475	455	475	535	440	1805	1797	1712	1777.5	1675	1650	1630	1600	911	505	375	412	468	340	130 – 455	435	499	1696
8455.600		797	792	712	675	655	675	735	640	1805	1797	1712	1777.5	1675	1650	1630	1600	911	505	375	412	468	340	130 – 455	435	699	1696
	8453.600	1197	1192	1112	1075	455	475	1135	500	1805	1797	1712	1777.5	1675	1650	1630	1600	911	505	375	412	468	340	130 – 455	435	1099	1696
8452.600		597	592	512	475	455	475	535	440	2005	1997	1912	1977.5	1875	1850	1830	1800	1011	605	475	512	568	440	130 – 555	535	499	1896
8450.600		797	792	712	675	655	675	735	640	2005	1997	1912	1977.5	1875	1850	1830	1800	1011	605	475	512	568	440	130 – 555	535	699	1896
	8451.600	1197	1192	1112	1075	455	475	1135	500	2005	1997	1912	1977.5	1875	1850	1830	1800	1011	605	475	512	568	440	130 – 555	535	1099	1896

Enclosure

B1 = overall width

B2 = width of door

B3 = clearance between enclosure frames

B4 = section length of system holes/hole distance between base and plinth attachment

B5 = clearance between the tubular door frame

B6 = distance between axes of the rows of tubular door frame holes

B7 = spacing between eyebolts

B8 = clearance in base aperture

H1 = overall height

H2 = height of rear panel

H3 = clearance between the enclosure frame

H4 = height of door

H5 = section length of system holes

H6 = distance between axes of the rows of tubular door frame holes

H7 = clearance between the tubular door frame

H8 = spacing of tubular door frame fastening bolts

H9 = distance from base to centre of lock

T1 = overall depth

T2 = section length of system holes/hole distance between base and plinth attachment

T3 = clearance between the enclosure frames

T4 = depth of base frame

T5 = clearance in base aperture

T6 = possible installation depth (mounting plate assembly), depth-adjustable on a 25 mm pitch pattern

T7 = centre-to-centre distance between eyebolts

Mounting plate

F = overall width

G = overall height

ES 5450.600 / ES 5451.600 /   **ES 5455.600**
ES 5452.600 / ES 5453.600 /
ES 5454.600
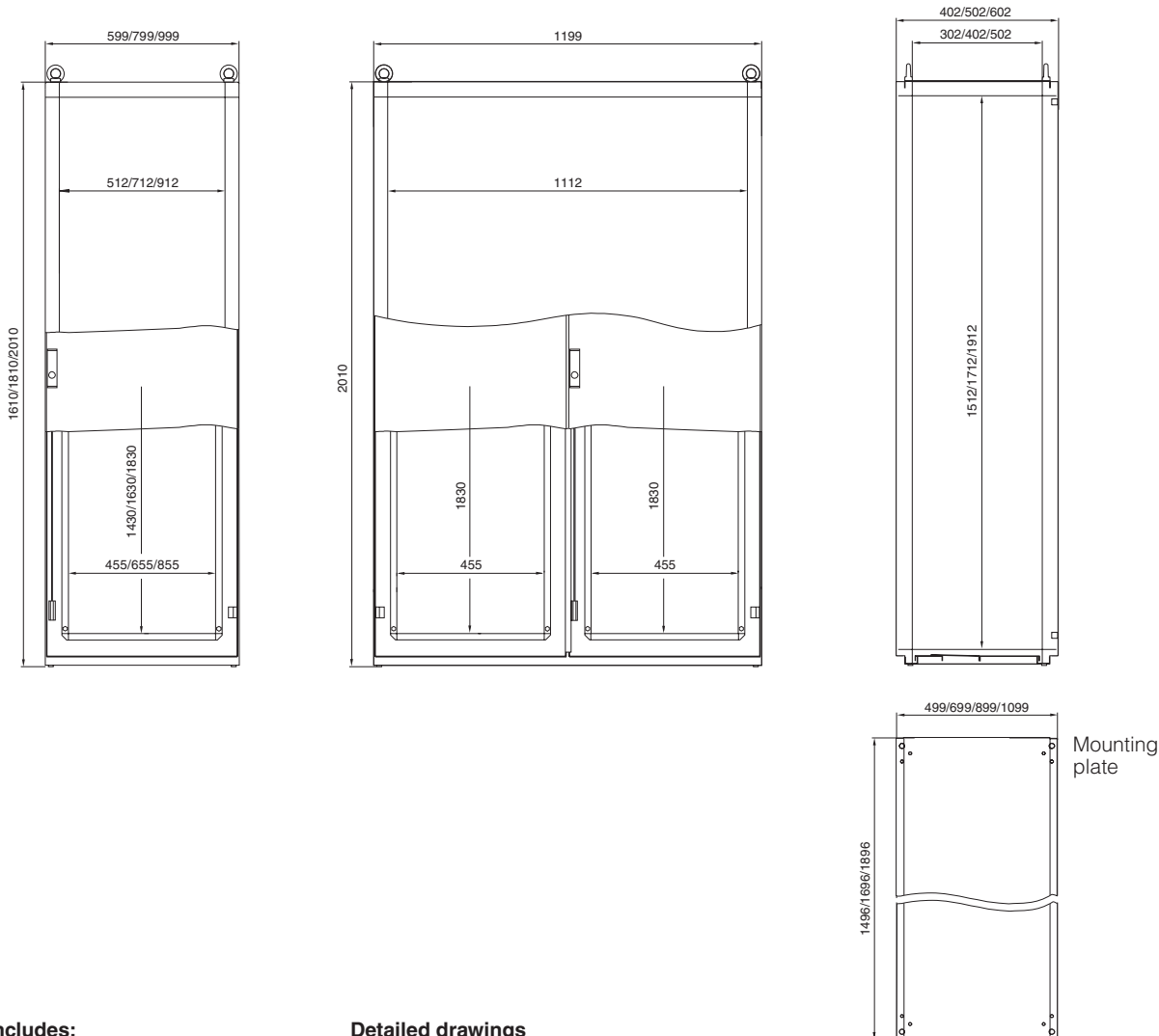
Mounting plate

Supply includes:
Enclosure, closed top and sides,
removable rear wall,
r/h door hinge, can be changed to
opposite side, except for ES 5455.600;
130° hinges, mounting plate,
three-part gland plates.

Detailed drawings
see page 60/61.

Width in mm	Packs of	600	600	800	800	1000	1200	Page
Height in mm		1600	1800	1800	2000	1800	2000	
Depth in mm		400	500	500	600	400	500	
Model No. ES	1	**5450.600**	**5451.600**	**5452.600**	**5453.600**	**5454.600**	**5455.600**	
Doors		1	1	1	1	1	2	
Eyebolts		2	2	2	2	4	4	
Weight (kg)		92.5	169.6	131.8	154.0	146.9	205.4	
Accessories external mounting								
Base/plinth SO Height 100 mm	1	2865.000	2868.000	2866.000	2856.000	2867.000	2860.000	63
Height 200 mm	1	2875.000	2876.000	2879.000	2880.000	2885.000	2887.000	63
Base/plinth plate, modular SO	1	2907.000	2908.000	2908.000	2913.000	2907.000	2908.000	64
Accessories internal mounting								
System support rails PS	2	4361.000	4361.000	4362.000	4362.000	4347.000	4363.000	Cat. 30 899
Cable clamp rails PS	2	4191.000	4191.000	4192.000	4192.000	4336.000	4196.000	Cat. 30 898
Support strips PS	20	4596.000	4596.000	4598.000	4598.000	4599.000	4596.000	Cat. 30 975
Utility lectern PS	1	4638.600	4638.600	4638.800	4638.800	–	4638.600	Cat. 30 951
Wiring plan pockets PS	1	4116.000	4116.000	4118.000	4118.000	4124.000	4116.000	Cat. 30 952

Lock systems
Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A – see Cat. 30, page 942
and Ergoform-S lock system – see Cat. 30, page 939

To order enclosures in 1.4401 (AISI 316), please change the last three digits of the Model No. to .300, and for 1.4571, change to .400.
Delivery times available on request.

■ □ □ □ □ □ Rittal Stainless steel brochure

Door with rectangular frame, slotted.

Enclosure with twin rows of holes in all 3 dimensions.

Mounting plate with slide block to guide runner.

+ Accessories:

see page 62 – 69
and page 70/71
or refer to index.

Material:
Stainless steel 1.4301
Enclosure: 1.8 mm
Door: 2.0 mm
Rear panel: 1.5 mm
Mounting plate:
Sheet steel 3.0 mm

Surface finish:
Enclosure, rear panel and doors: Brushed, grain 240
Mounting plate: Zinc-plated

Protection category:
IP 56 to EN 60 529/10.91
(for all single-door ES),
IP 55 to EN 60 529/10.91
(for all double-door ES),
Complies with NEMA 12
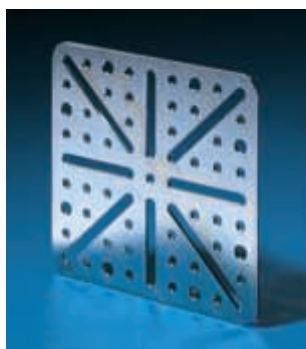
Mounting plate
Also suitable for components outside of the 25 mm pitch pattern of holes.
See Cat. 30, page 978.

Signal pillars
Simple contact using bayonet connectors.
See Cat. 30, page 1000.

Stainless steel viewing window. Reliable protection for installed components in stainless steel enclosures.
See page 69.

■ ☐ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure

i.L. = Clearance width

Cross-section

Pitch pattern of holes

Dimensions in detail

Mounting plate
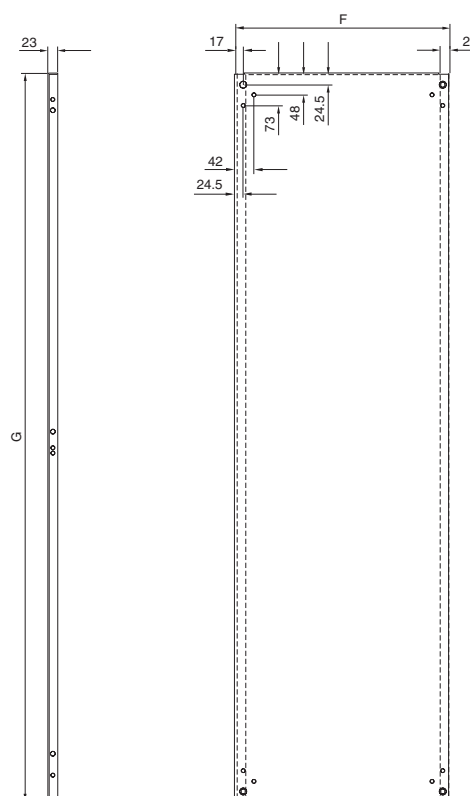
i. L. = Clearance width

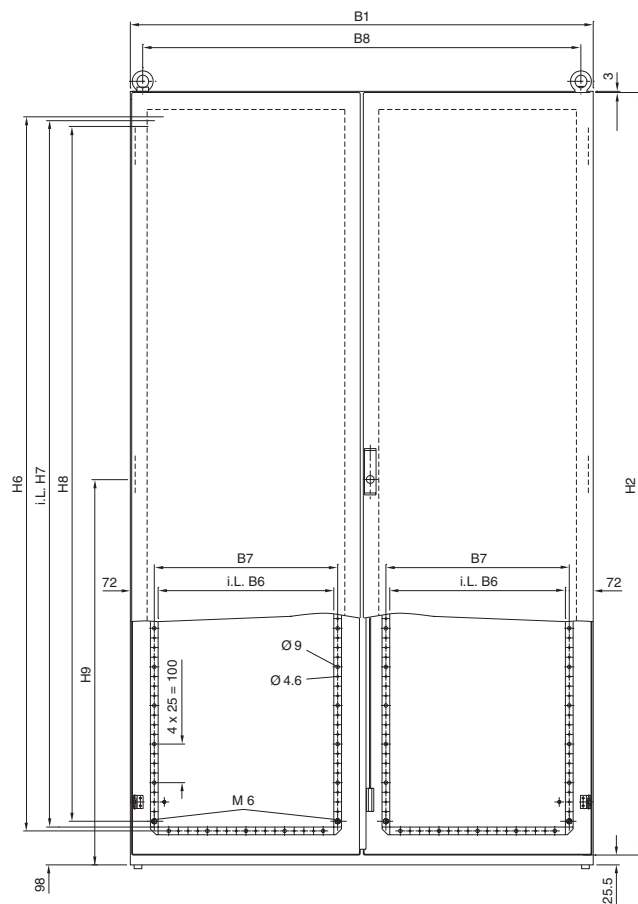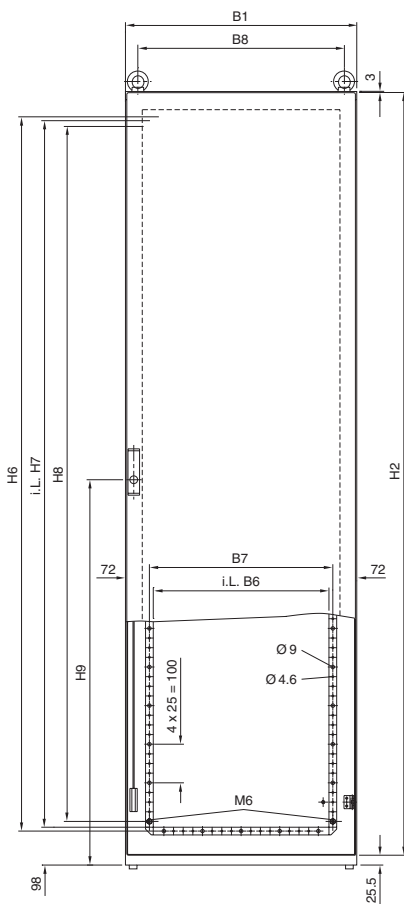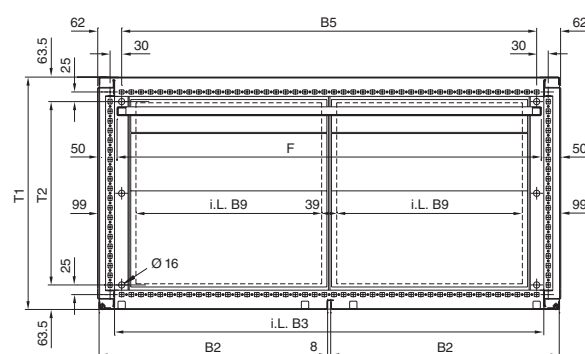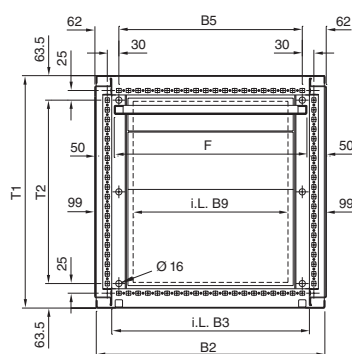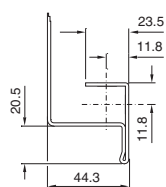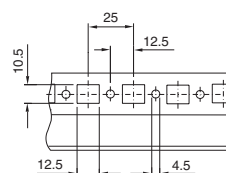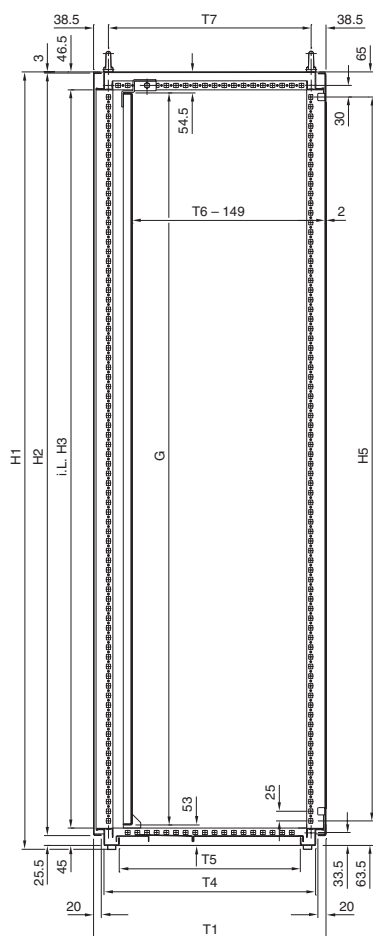| Enclosures		Widths								Heights								Depths						Mount. pl.	
Single-door	Two-door	B1	B2	B3	B5	B6	B7	B8	B9	H1	H2	H3	H5	H6	H7	H8	H9	T1	T2	T4	T5	T6	T7	F	G
ES 5450.600		599	592	512	475	455	475	535	401	1610	1575	1512	1475	1450	1430	1400	798	402	275	349	269	349	325	499	1496
ES 5451.600		599	592	512	475	455	475	535	401	1810	1775	1712	1675	1650	1630	1600	898	502	375	449	369	449	425	499	1696
ES 5454.600		999	992	912	875	855	875	935	801	1810	1775	1712	1675	1650	1630	1600	898	402	275	349	269	349	325	899	1696
ES 5452.600		799	792	712	675	655	675	735	601	1810	1775	1712	1675	1650	1630	1600	898	502	375	449	369	449	425	699	1696
ES 5453.600		799	792	712	675	655	675	735	601	2010	1975	1912	1875	1850	1830	1800	998	602	475	549	469	549	525	699	1896
	ES 5455.600	1199	592	1112	1075	455	475	1135	481	2010	1975	1912	1875	1850	1830	1800	998	502	375	449	369	449	425	1099	1896

Enclosure

B1 = overall width

B2 = width of door

B3 = clearance between enclosure frames

B5 = section length of system punchings/hole distance of base and plinth attachment

B6 = clearance between the tubular door frame sections

B7 = distance between the rows of tubular door frame holes

B8 = spacing between eyebolts

B9 = clearance in base aperture

H1 = overall height

H2 = height of rear panel and door

H3 = clearance between enclosure frame sections

H5 = section length of system punchings

H6 = distance between the rows of tubular door frame holes

H7 = clearance between tubular door frame sections

H8 = spacing of tubular door frame fastening bolts

H9 = distance from base to centre of lock

T1 = overall depth

T2 = section length of system punchings/hole distance of base and plinth attachment

T4 = depth of base frame

T5 = clearance in base aperture

T6 = possible installation depth (mounting plate assembly) up to 149 mm, depth-adjustable on a 25 mm pitch pattern

T7 = centre-to-centre distance between eyebolts

Mounting plate

F = overall width

G = overall height

Large enclosures

Base/plinth components front and rear

for TS

Material:
Stainless steel 1.4301

Surface finish:
Brushed

Supply includes	Height	
1 set =	100 mm	200 mm
Corner pieces	–	2*
Trim pieces front/rear	2	2
Mounting accessories including 4 screws and M12 nuts for fitting to the enclosure		

* Corner piece with removable trim, for mounting optionally on the front or rear.

For enclosure width mm	Packs of	Model No. TS	
		100 mm high	200 mm high
600	1	**8701.600**	**8702.600**
800	1	**8701.800**	**8702.800**
1200	1	**8701.200**	**8702.200**

+ Accessories:

Trim panels, modular (perforated plate), see page 64.

Base/plinth trim, side

for TS

Installation between the base/plinth components front and rear. For 200 mm height two 100 mm base/plinth trim pieces can be used.
Base/plinth trim pieces (100 mm high) can be installed rotated 90° to stabilise bayed base/plinth components.

Material:
Stainless steel 1.4301

Surface finish:
Brushed

Supply includes:
1 set = 2 base/plinth trim panels including material for attaching the base/plinth components.

For enclosure depth mm	Packs of	Model No. TS	
		100 mm high	200 mm high
400	1	**8701.040**	**8702.040**
500	1	**8701.050**	**8702.050**
600	1	**8701.060**	**8702.060**

+ Accessories:

Attachment bolts for base/plinth, see page 64.
Leveling feet, see page 64.

! Also required:

Base/plinth baying brackets TS 8601.100, see Cat. 30, page 881, for installation of base/plinth trim components rotated by 90°.
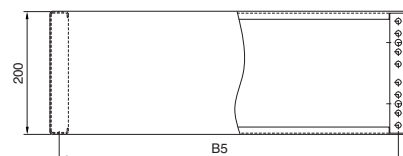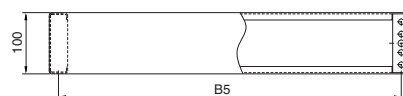
Description of the hole pattern

B1/T1 = External dimensions

B2/T2 = For screw fastening in the thread of the enclosure corner piece from below

B3/T3 = For screw fastening via captive nut on the enclosure floor from below or above

All holes (B2 – B4/T2 – T4) can be used for screw fastening on the floor.

Base/plinth components front/rear						Base/plinth trim, side					
Width mm	B1	B2	B3	B4	B5	Depth mm	T1	T2	T3	T4	T5
600	600	535	475	400	570	400	369	335	300	275	250
800	800	735	675	600	770	500	469	435	400	375	350
1200	1200	1135	1075	1000	1170	600	569	535	500	475	450

Complete base/plinth

Consisting of:
Trim panels front and rear (for height 200 mm with corner pieces and removable trim panel on one side), and removable trim panels.

Material:
Stainless steel 1.4301

Surface finish:
Brushed

Supply includes	Height	
	100 mm	200 mm
Corner pieces	–	2*
Trim panels front/rear	2	2
Trim panels, side	2	4
Assembly parts including 4 screws and captive nuts M12 for mounting on the enclosure.		

* Corner pieces with removable trim panel, to be mounted optionally at the front or rear.

✚ Accessories:

Levelling feet, see page 64.
Trim panels, modular, see page 64.

Base/plinth for ES/PC/AP

For enclosures		Model No. SO	
Width mm	Depth mm	100 mm high	200 mm high
600	400	**2865.000**	**2875.000**
600	500	**2868.000**	**2876.000**
600	600	**2855.000**	**2877.000**
800	400	**2869.000**	**2878.000**
800	500	**2866.000**	**2879.000**
800	600	**2856.000**	**2880.000**
1000	400	**2867.000**	**2885.000**
1200	400	**2870.000**	**2886.000**
1200	500	**2860.000**	**2887.000**

Base/plinth 100 mm high

T = Enclosure depth – 50 mm
B = Enclosure width

Base/plinth 200 mm high

T = Enclosure depth – 50 mm
B = Enclosure width
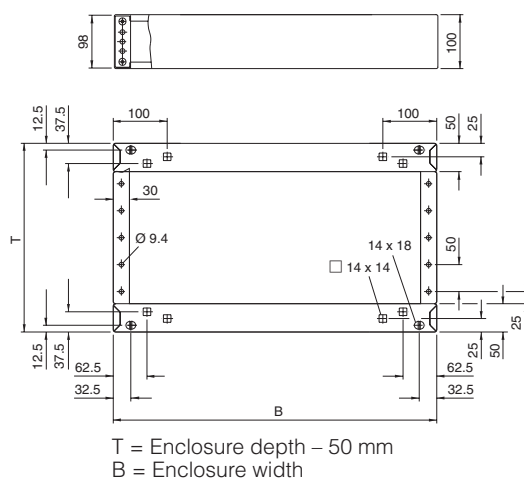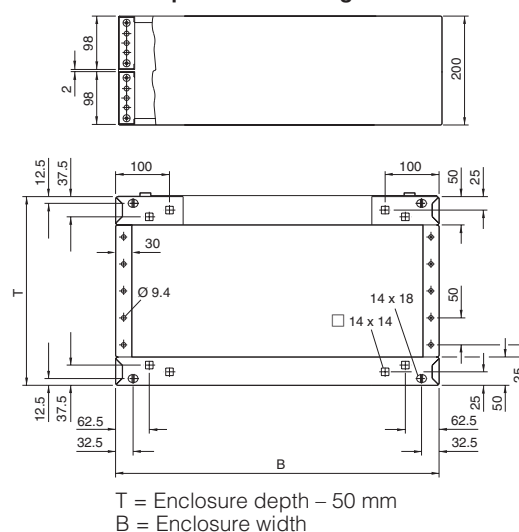
Large enclosures

Levelling feet

For mounting underneath the base/plinth.
For unhindered access e.g. when cleaning
the floor and to compensate for floor
irregularities.

Max. permissible static load:
400 kg/foot

Adjustment range:
M12: 55 mm – 125 mm
M16: 45 mm – 120 mm

Material:
Stainless steel 1.4301

Thread	Packs of	Model No. SO
M12	1 set	**2889.000**
M16	1 set	**2890.000**

Supply includes:
1 set =
4 levelling feet, 4 mounting plates,
incl. assembly parts.

German utility model no. G 94 06 468

Levelling feet, 100 mm high

For mounting on TS and ES enclosures,
for easier floor cleaning and to compensate
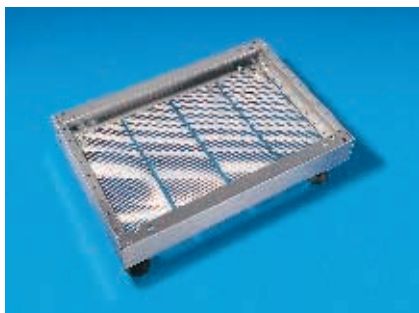for floor irregularities of ± 15 mm.
Height: 100 mm

Max. permissible static load:
350 kg/foot

Material:
Feet: Brass, nickel-plated
Threaded bolts and mounting plates:
Stainless steel 1.4301

Packs of	Model No. SO
1 set	**2859.000**

Supply includes:
1 set =
4 feet,
4 threaded bolts,
4 mounting plates,
including assembly parts for the enclosure.

Trim panels, modular

For cable routing in the base/plinth, made
from stainless steel, e.g. when using
levelling feet (see above).
One perforated plate segment is 175 mm
wide. The system punchings are suitable
for accommodating cable ties SZ 2597.000
for tidy cable routing.

Material:
Stainless steel 1.4301

Supply includes:
4 perforated plates

For enclosure depth mm	Number of trim panels required for a given plinth width*				Model No. SO
	600 mm	800 mm	1000 mm	1200 mm	
400	3	4	5	6	**2907.000**
500	3	4	5	6	**2908.000**
600	3	4	5	6	**2913.000**

* If the surface is to be completely
closed

➕ **Accessories:**

Cable ties,
see Cat. 30, page 1010.

Fastening bolt for base/plinth

Through the clampable fastening bolts,
cable clamp rails and standard horizontal
C rails can be fitted.

Material:
Hexagon section steel,
19 mm across flats

Surface finish:
Zinc-plated, passivated

Supply includes:
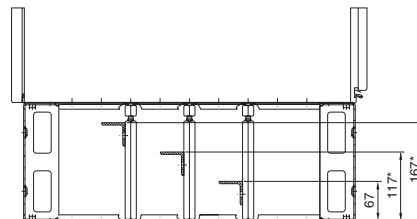10 fastening bolts

For trim panel height mm	Model No. SZ
100	**2819.000**
200	**2819.200**

➕ **Accessories:**

Cable clamp rail,
see Cat. 30, page 898.

* only for a height of 200 mm

Cable entry plates

for TS
For simple and quick cable entry and sealing in combination with:
● Cable entry grommets
● Connector grommets.

These are used instead of segments of the standard divided gland plates.

Material:
Stainless steel 1.4301

Supply includes:
2 or 4 cable entry plates including assembly parts.

Enclosure width mm	Cutouts per plate	Packs of	Model No. TS
600	5	2	**8700.600**
800	8	2	**8700.800**
1200	6	4	**8700.120**

German patent no. 42 07 281
European patent no. 0560119
with validity for FR, GB, IT, NL
Japanese patent no. 2533052
US patent no. 5,422,436

Cable entry grommets

In conjunction with the cable entry plate, for simple, fast sealing of cables inserted into the base area of enclosures.

Material:
Outer cover: Polypropylene
Seal: Cellular rubber

Protection category:
IP 55 to EN 60 529/10.91

Cables per grommet	max. Ø mm	Model No. PS
8	13	**4316.000**
3	21	**4317.000**
1	47	**4318.000**

Packs of 25

German patent no. 42 07 281
European patent no. 0 560 119
with validity for FR, GB, IT, NL
Japanese patent no. 2 533 0

Connector grommets

In conjunction with cable entry plates, for the entry of cables pre-assembled with connectors.
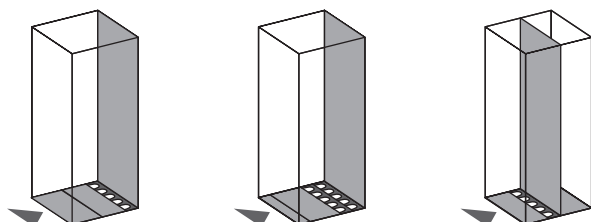
Suitable for cable diameters from 8 to 36 mm.

Material:
Outer cover: Polypropylene covered with thermoplastic elastomer
Seal: Cellular rubber

Packs of	Model No. PS
10	**4311.000**

German patent no. 40 28 570

Three examples from a wide range of possibilities
The illustrations show three examples for the positioning of cable entry plates instead of segments of the standard three-part gland plates. In that way a positioning suitable for the mounting plate is possible.
Thanks to the enclosure symmetry, where dimensions permit, cable entry plates may also be inserted in the enclosure depth, right and left, analogous to the gland plates.

■ ☐ ☐ ☐ ☐ Rittal Stainless steel brochure
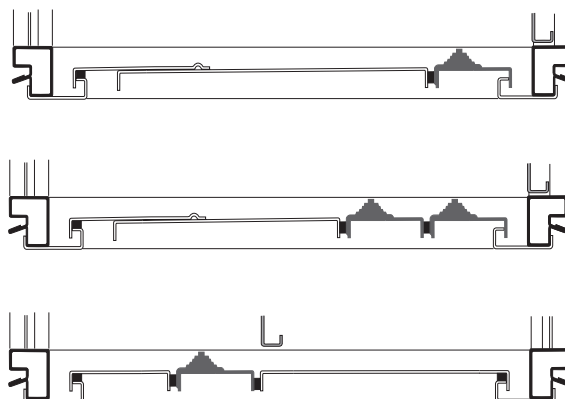
ACCESSORIES

Large enclosures

Side panels, screw-fastened

for TS
To finish a complete enclosure. Easy attachment on the inside vertical enclosure frame member.

Earthing inserts ensure automatic potential equalisation and a higher degree of EMC protection. Earth studs with contact surfaces already included.

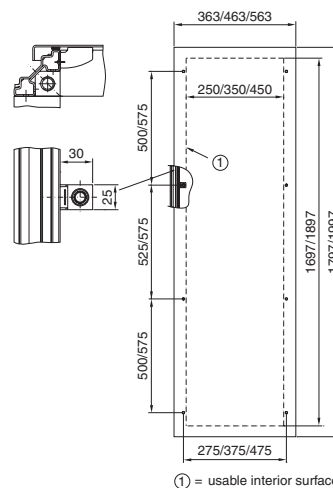**Material:**
Stainless steel 1.4301, 1.5 mm

Surface finish:
Brushed

Protection category:
IP 55 to EN 60 529/10.91

Supply includes:
2 side panels, 16 panel holders including assembly parts.

Height mm	Depth mm	Packs of	Model No. TS
1800	400	2	**8700.840**
1800	500	2	**8700.850**
2000	600	2	**8700.060**

① = usable interior surface

Hose-proof hoods

for fan-and-filter units
When the hose-proof hood is mounted above the fan-and-filter unit and outlet filter in conjunction with a fine filter mat, a protection category of IP 55 to EN 60 529/10.91 is achieved. Particularly suitable for use in the food industry

Material:
Stainless steel

For fan-and-filter unit	Dimensions in mm	Model No. SK
SK 3321. . . .	150 x 260 x 40	**3321.800***
SK 3322. . . .	176 x 270 x 55	**3322.800**
SK 3323. . . .	233 x 410 x 55	**3323.800**
SK 3324. . . . SK 3325. . . .	282 x 500 x 85	**3324.800**
SK 3326. . . . SK 3327. . . .	350 x 560 x 110	**3326.800**

* Delivery time on request.

c UL us LISTED

Conforms to NEMA 3R + 12 in conjunction with fan-and-filter units/outlet filters.

Cover for baying (top)
for TS
A cover may additionally be clipped over the seal between two enclosures, simply with two end caps. This prevents dirt and liquid from collecting on the baying seal.

Material:
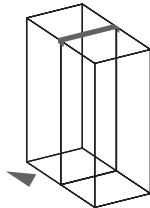Stainless steel 1.4301
End caps: ABS plastic, black

Surface finish:
Brushed

Supply includes:
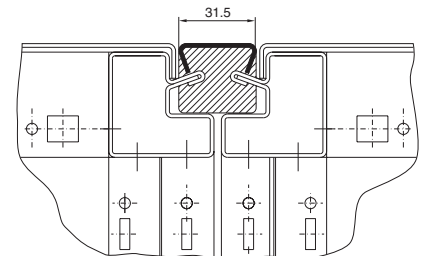Cover incl. 2 end caps.

Note:
May also be fitted in the width with enclosures bayed back to back.

German patent no. 19737667

For enclosure depth mm	Packs of	Model No. TS
400	1	**8700.140**
500	1	**8700.150**
600	1	**8700.160**

31.5

Baying connector, external
for TS
For connecting bayed TS sections from the outside.

Installation:
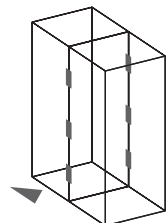Simply position on the outside and screw-fasten from either inside or outside.

Material:
Stainless steel 1.4301

Supply includes:
Baying connector, including assembly parts.

German patent no. 19737668

Packs of	Model No. TS
6	**8700.000**

Possible alternative:

Baying technology for:

Robust baying connection when transporting bayed enclosures, see Cat. 30, page 912/913.

The installation on site or for provisional siting in the workshop, see Cat. 30, page 914/915.

Torx screw
Special screw for the holes in the enclosure frame. Suited to high stainless steel strength. For use with all enclosure systems with round holes
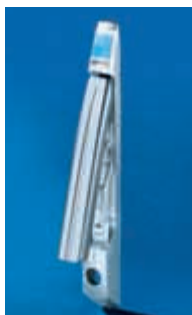(TS, ES, PC, AP universal consoles).

Supply includes:
1 pack of 300

Packs of	Model No. SZ
300	**2486.300**

Comfort handle
for locking applications

for TS
Prepared for the installation of lock inserts,
safety and push-button inserts.

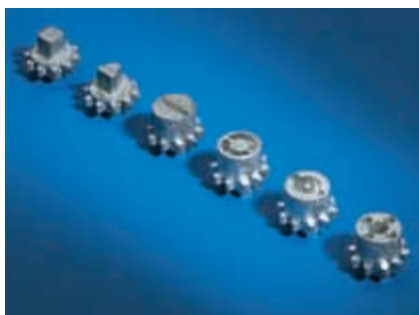Length: 295 mm

Material:
Die-cast zinc

Surface finish:
Matt nickel-plated

Packs of	Model No. TS
1	**8611.330**

+ **Accessories:**

Lock inserts,
safety and push-button inserts, see below.

Lock inserts

For comfort handles and the standard TS
lock (in exchange for the standard double-
bit lock insert).

Material:
Die-cast zinc

Design	Model No. TS
7 mm square	**8611.100**
8 mm square	**8611.110**
6.5 mm triangular	**8611.220**
7 mm triangular	**8611.120**
8 mm triangular	**8611.130**
Screwdriver	**8611.140**
Daimler	**8611.150**
Double-bit, 3 mm	**8611.160**
Fiat	**8611.170**

Lock and
push-button insert

For installation in the comfort handles
for lock inserts.

Design	Model No. TS
Lock insert Lock no. 3524 E	**8611.180***
Push-button insert	**8611.190**
Push-button and lock insert, lock no. 12 321, no other lock is possible	**8611.200***

* with 2 keys

Comfort handle
for semi-cylinder

for TS
Prepared for the installation of standard
semi-cylinders 40 or 45 mm in length to
DIN 18 254 and security and push-button
inserts.

Length: 302 mm

Material:
Die-cast zinc

Surface finish:
Matt nickel-plated

Packs of	Model No. TS
1	**8611.340**

+ **Accessories:**

Lock and push-button insert,
see above.
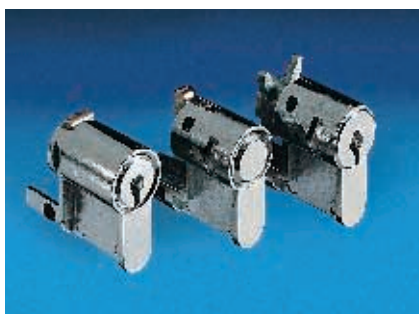
Lock and
push-button inserts

For installation in
● the comfort handle for semi-cylinder,
  see above,
● Ergoform-S standard,
  see Cat. 30, page 939.

Design	Model No. SZ
Lock insert Lock no. 3524 E	**2467.000***
Push-button insert	**2468.000**
Lock and push-button insert, lock no. 2123; no other lock is possible	**2469.000***

* with 2 keys

Hinge 180°

for TS
For retrospective conversion of standard doors with 130° hinges.

Single handed installation:
● Exchange frame-side hinged parts for 180° hinges (4 screws).
● Drill door at the pre-marked points.
● Screw on door-side hinge parts.
● Hang door.
● Push in captive hinge pins.

Material:
Die-cast zinc
Hinge pins: Stainless steel

Surface finish:
Matt nickel-plated

Packs of	Model No. TS
4	**8701.180**

Supply includes:
4 x 180° hinges, including assembly screws. For twin doors, 2 packs units are required.

Note:
Door configurations such as the comfort handle can restrict the door opening angle.

The hinge pins may only be actuated and the door removed with the door open. The hinge cannot be dismantled from the outside with the door closed (access protection).

Hinge 180°

for ES/AP universal consoles
For retro-converting standard stainless steel doors with 130° hinges, including assembly material.

Material:
Stainless steel 1.4301

Packs of	Model No. PS
6	**4156.000**

Viewing window

The perfect solution for display and control elements in all areas with high hygiene standards. Fitted as standard with internal 130° hinges and all-round seal.
The double-bit lock insert may be exchanged for 27 mm lock inserts, design A and Ergoform-S handle SZ 2452.000.

Material:
Stainless steel 1.4301
Single-pane safety glass

Protection category:
IP 54 to EN 60 529/10.91

Supply includes:
Viewing window with cam lock, including assembly parts.

Width mm	Height mm	Depth mm	B1 mm	Model No. FT
522	600	38	408	**2793.560**
722	600	38	608	**2793.760**

Other widths and heights available on request.

Accessories:

Lock inserts 27 mm, design A, see Cat. 30, page 942.
Ergoform-S handle SZ 2452.000, see Cat. 30, page 939.

B = Width
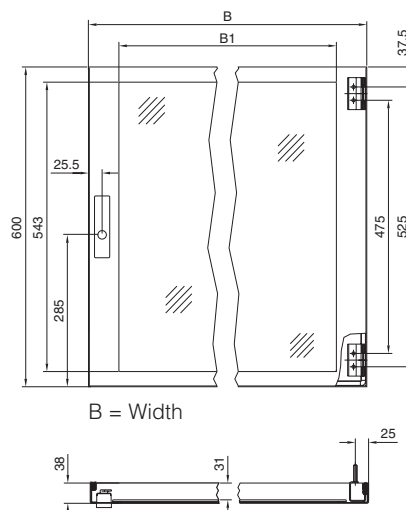
More system accessories for perfect, cost-effective configuration of the various stainless steel cases and enclosures can be found in Rittal Catalogue 30.

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With the right climate control components, you can significantly reduce the risk of expensive system failures or machine downtime caused by overheating. Heat is still the number one enemy of sensitive microelectronics. Overheating and temperature fluctuations are the most common cause of malfunctions and failures.

With one of the world's leading project ranges and a comprehensive range of services, including thermal analysis, Rittal offers individual solution concepts to minimize risks and boost productivity.

High cooling output, central and cost-effective

Recooling systems
Enclosure cooling, machine and process cooling as well as the cooling of liquids and emulsions can be achieved centrally from one recooling system.
Several items of equipment are easily connected in parallel.

Useful cooling output from 0.96 kW – 176 kW

Air/water heat exchanger
For enclosure cooling in extreme ambient conditions, a combination of recooling systems and air/water heat exchangers offers an effective way of dissipating very high heat loads.
If necessary, the enclosures and piping can be designed in stainless steel.

Useful cooling output from 600 W – 5000 W

Integral cooling technology

It sets standards for the modern unity between enclosure and cooling components, both now and in the future. The cooling unit built into the enclosure door or side panel keeps the enclosure internal temperature at the desired level, irrespective of the ambient temperature. Thanks to two mechanically separate, well-insulated air circuits, the ingress of dust from the environment into the enclosure via the cooling system is prevented.
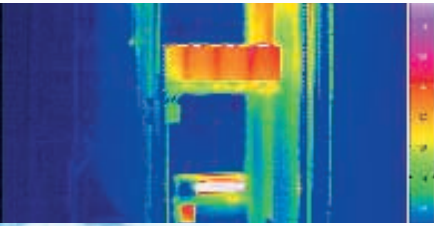
The integral cooling system
● is sure to impress, with its particularly effective cooling
● helps to cut the time spent on assembly
● reduces investment costs for the complete unit

Useful cooling output from 1100 W – 2500 W

Safety is our top priority

SK customer service
Thermographic measurements on the populated enclosures.

Enclosure surfaces are kept free

Roof-mounted cooling units
Roof mounting means that all enclosure surfaces are kept free for control and display devices. Transportation and escape routes are not obstructed. Depending on the siting conditions and interior installation of the enclosure, we offer flexible air routing for the outer and inner circuits.
Control is achieved using a built-in Basic or Comfort controller.

**Useful cooling output
from 500 W – 4000 W**

Effective in every performance category

Wall-mounted cooling units
Whether 225 W useful cooling output for effective heat dissipation of command panels, for example, or 4,000 W for the dissipation of extremely high heat loads, the refrigeration factor of Rittal cooling unit technology demonstrates exceptionally effective use of the power input.

The increased demands on network technology design are met to perfection by the styling, with the option of full installation, partial installation or external mounting.
Like the roof-mounted cooling units, the wall-mounted cooling units are also equipped with either Basic or Comfort controllers.

**Useful cooling output
from 225 W – 4000 W**

Risk minimisation through central monitoring

This is achieved particularly effectively, thanks to a combination of Rittal climate control components with central monitoring and control via the CMC.

Temperature limits are perfectly maintained, any potential defects are identified to enable preventive action, and service requirements are notified promptly and organised from a central location.

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INDIVIDUAL SOLUTIONS TO PERFECTION

System platforms offer cost benefits

At Rittal, even "tailor-made" individual solutions are based on our comprehensive knowledge of system platforms for enclosures and cases.
In other words, the perfection and cost benefits of mass-produced products are combined with customer-specific designs and features.

The outstanding benefits include perfect quality, significantly lower costs, and precise implementation of customer requirements.
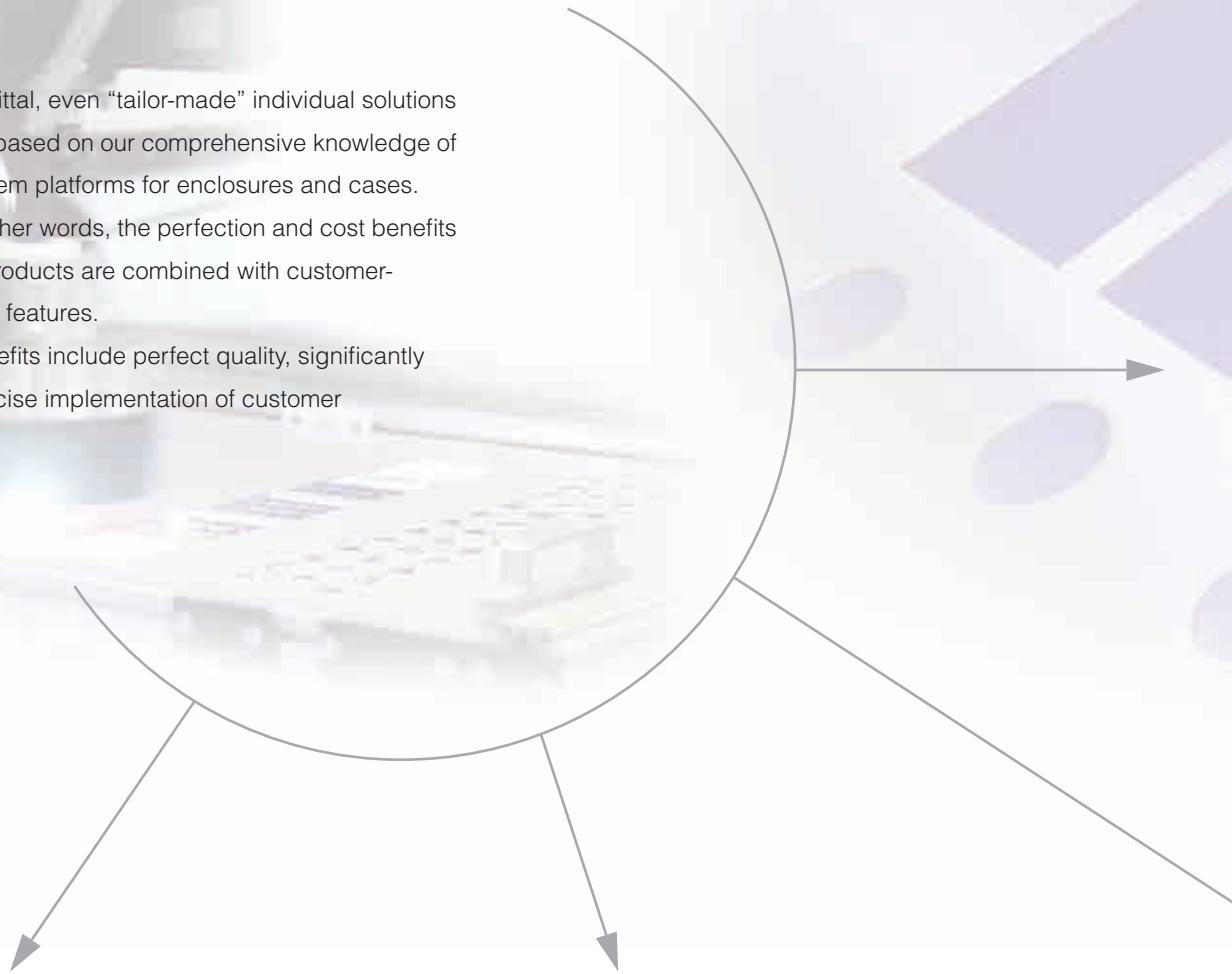
1. Assembly of system accessories
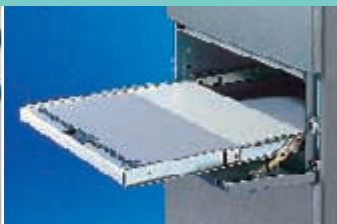
Make use of the versatile opportunities offered by Rittal system accessories! With full internal mounting available ex works.

A service to save you time and money.

2. Modification of standard components

Ideas based on serial products are implemented to perfection ex works:

● Holes and cutouts
● Insertion of acrylic or safety glass windows
● Your logo, sand/bead blasted
● Other surface finishes

Example: Duct alarm box

● AE compact enclosure with rain canopy in spray-finished stainless steel
● Cutouts with opal plexiglass panels
● Interior case for fire extinguisher and telephone

Material specifications

	Germany		Europe
	German material number	DIN designation	DIN designation
1	1.4301 (V2A)	X 5 CrNi 18 10	X 5 CrNi 18 10
2	1.4401	X 5 CrNiMo 17 12 2	X 5 CrNiMo 17 12 2
3	1.4571 (V4A)	X 6 CrNiMoTi 17-12-2	X 6 CrNiMoTi 17-12-2

	USA		
	SAE J 405	AISI	UNS
1	30304	304	S 30400
2	30316	316	S 31600
3	–	(316 Ti)	S 31635

	UK	France	Italy
	British Standard	AFNOR NF	UNI
1	304 S 15/16/31	Z 5 CN 17-08	X 5 CrNi 18 10
2	316 S 31/33	Z 7 CND 17-11-02	X 5 CrNiMo 17 12
3	320 S 31	Z 6 CNDT 17-12	X 6 CrNiMoTi 17 12

	Sweden	Russia	Japan
	SS 14	GOST	JIS
1	2332/2333	08Ch 18 N 10	SUS 304
2	2347	–	SUS 316
3	2350	10Ch 17 N 13M2T	SUS 316 Ti

	PR of China		
	GB		
1	0Cr18Ni9(N)		
2	0Cr17Ni12Mo2		
3	–		

Rittal material diversity

Apart from stainless steel, we also offer enclosures in the following materials to suit all applications:

Cast aluminium

Sheet steel, electrophoretic dipcoat primed and powder coated

Sheet aluminium

Polycarbonate

Sheet steel with an aluminium zinc surface finish

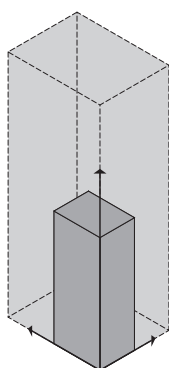Polyester, fibreglass-reinforced

3. Modified dimensions

Size variants are possible for all stainless steel enclosures on request:

● Enclosure systems TS/ES on a 25 mm pitch pattern
● Enclosure systems without pitch pattern

4. Individual solutions

Project-specific solutions, fully fitted and delivered on time – all part of the Rittal service!

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