

CS Outdoor enclosures

Features



For all requirements in the outdoor sector, Rittal has the ideal enclosure solution, thanks to its platform strategy.

With single-walled or twin-walled enclosures of aluminium or coated sheet steel, as well as an extensive range of accessories. With constant interior temperatures and perfect climate, thanks to in-house development and production of cooling units, heat exchangers and heaters.

CS Outdoor enclosures

CS modular enclosures



Protection against vandalism – These features will protect your equipment against unauthorised access: **No point of access for lever-type tools**, because the double side panel seamlessly conceals the door hinges.

The hinged **roof is screw-fastened to the enclosure body**.

The **base/plinth trim is secured with safety screws**.



Batteries for emergency power back-up are securely housed in the **pull-out drawer** of the battery base/plinth.

High level of stability thanks to **ten-fold profiling** of the enclosure body.

Rittal accessory components facilitate fast, **universal interior installation**.

CS wall-mounted enclosures



The **enclosure-within-an-enclosure concept** with the curved designer cover is a characteristic feature.

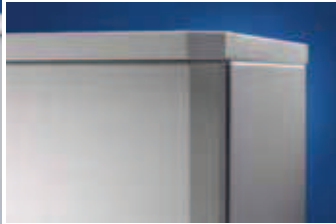
Security lock on the designer cover and door of the interior enclosure.

Air louvres at the sides and in the rear panel.

B
6.1



Toptec CR



Functional design
No roof projection at the sides – enclosures are connected via cut-outs or by buying complete enclosures.

Enclosure platform TS 8
TS 8 vertical sections and system punchings are the key to the comprehensive range of accessories.

Climate control modules
Climate control – identical door cut-outs for cooling units and air/air heat exchangers offer variability when selecting climate control components.



Twin-walled doors
Chimney effect – The twin wall minimises the influence of sunlight and prevents condensation.

Multifunctional rain canopy
protects the side panel from removal, while ventilation prevents condensation and the sloping roof stops rainwater from accumulating.

Lock system
The doors at the front and rear each have one swing lever handle with security lock.



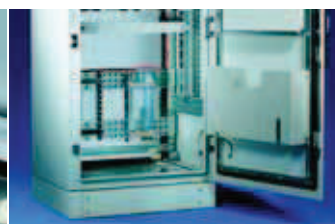
CS basic enclosures



Eyebolts, concealed by the rain canopy, for crane transportation of the fully fitted unit.

Ventilation louvres all-round in the hinged rain canopy – with an all-round roof projection of 25 mm.

Width 1200 mm: **With removable centre bar** and two lockable doors with or without centre bar, with overlapping doors.

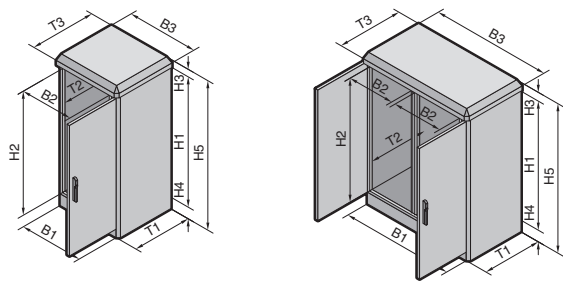


The open base frame may be covered with **gland plates**.

Individual installation with an **extensive choice of system accessories**.

25 mm system punchings for mounting 482.6 mm (19") mounting angles, mounting plates or partial mounting plates.

CS modular enclosures



Technical specifications:

Basic module:
 Solid top and sides, closed base with 4 gland plates (width 600 mm with 2 gland plates).
 Double-walled rear panel screw-fastened from the inside.
 Double-walled door with Ergo-form padlock handle with 3-point locking, foamed-in PU seal.
 Gas pressurised spring as door stay.
 Double side panel across the enclosure and base/plinth, screw-fastened from the inside, screws not visible from the outside.

Rain canopy, 75 mm high, hinged, 25 mm projection on all sides.
 Base/plinth, 100 mm high.

Material:
 Enclosure, roof and side panel: 2.0 mm aluminium AlMg3
 Base/plinth: 3.0 mm aluminium AlMg3

Colour:
 RAL 7035

Protection category:

IP 55 to EN 60 529/09.2000, complies with NEMA 3R.

Supply includes:

Twin-walled, fully assembled enclosure, consisting of basic module, roof, side panels and base/plinth.

Note:

Modular enclosures with climate control units, as bayed suites, with side doors or rear doors available on request.

Property rights:

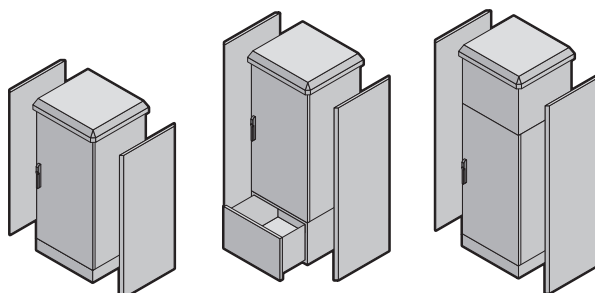
German patents
 no. 196 09 699 and 196 09 704
 European patents
 no. 0 886 899 and 0 886 900 with validity for FR, IT, GB, SE
 US patents no. 6,109,053 and 5,971,511
 South Korean patents
 no. 0 334 548 and 0 325 930
 Japan. patent no. 3 401 015

Detailed drawing,
 see page 1298 – 1299.

Width (B1) mm	Packs of	600	800	800	1200	Page
Height (H1) mm		1200	1200	1600	1200	
Depth (T1) mm		600	500	600	600	
Clearance width (B2) mm		512	712	712	512	
Clearance height (H2) mm		1112	1112	1512	1112	
Clearance depth (T2) mm		554	454	554	554	
Rain canopy width (B3) mm		700	900	900	1300	
Rain canopy height (H3) mm		75	75	75	75	
Rain canopy depth (T3) mm		650	550	650	650	
Base/plinth height (H4) mm		100	100	100	100	
Overall height (H5) mm		1375	1375	1775	1375	
Model No. CS	1	9751.125	9751.145	9751.165	9752.125	
Accessories						
Concrete base/plinth	1	9765.083	9765.084	9765.085	9765.087	900
Mounting plate	1	9765.092	9765.095	9765.096	9765.191	987
Mounting angles, 482.6 mm (19")	2	7688.000	7688.000	7690.000	7688.000	1093
Installation kit for 482.6 mm (19") mounting angles	2	7696.000	7698.000	7698.000	7696.000	1093
Mounting angles, metric (T-slot)	2	–	7000.240	7000.330	–	1093
Installation kit for metric mounting angles	2	–	7000.100	7000.100	–	1093
Gland plate	Size	4	4	4	4	From 1048
	No. of	2	4	4	4	
Support rails	4	4396.000	4395.000	4396.000	4396.000	1001
Heater 800 W	1	9769.080	9769.080	9769.080	9769.080	709
Thermostat	1	3110.000	3110.000	3110.000	3110.000	715
Enclosure light 48 V DC	1	9765.150	9765.150	9765.150	9765.150	1029

CS modular enclosures

Installation variants, width 600 mm







Material:
Enclosure, roof and side panel:
2.0 mm aluminium AIMg3
Base/plinth, battery plinth:
3.0 mm aluminium AIMg3

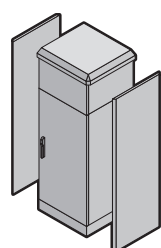
Colour:
RAL 7035
Protection category:
IP 55 to EN 60 529/09.2000,
complies with NEMA 3R.

Other climate control devices,
from page 883.

Note:
Please note the minimum enclosure dimensions when making your selection.

The enclosures are manufactured to order from individual modules.
Delivery times available on request.

					
Width (W) mm	600	600	600	600	Page
Height (H) mm	800	1000	1200	1600	
Depth (D) mm	600	500	600	600	
Model No. CS	9751.015	9751.075	9751.025	9751.035	
Base/plinth					
Standard base/plinth 100 mm	9755.015	9755.065	9755.015	9755.015	
Battery plinth 350 mm	9754.025	9754.015	9754.025	9754.025	
Roof-mounted climate control					
Cooling unit	9762.012	9762.012	9762.012	9762.012	883
Heat exchangers	9764.012	9764.012	9764.012	9764.012	884
Mounting frame for heat exchanger or cooling unit	9765.051	9765.051	9765.051	9765.051	
Climate hood	9756.015	9756.065	9756.015	9756.015	
Wall-mounted climate control					
Cooling unit	–	–	9761.012	9761.012	883
Heat exchangers	–	–	9763.012	9763.012	884
Roof					
Standard roof	9757.015	9757.065	9757.015	9757.015	
Roof for wall-mounted climate control	–	–	9758.015	9758.015	
Side panel					
Side panel for 100 mm base/plinth	9753.015	9753.175	9753.035	9753.045	
Side panel for 350 mm base/plinth	9753.055	9753.195	9753.075	9753.085	
Side panel for 100 mm base/plinth and roof-mounted climate control	9753.095	9753.185	9753.115	9753.125	
Side panel for 350 mm base/plinth and roof-mounted climate control	9753.135	9753.205	9753.155	9753.165	



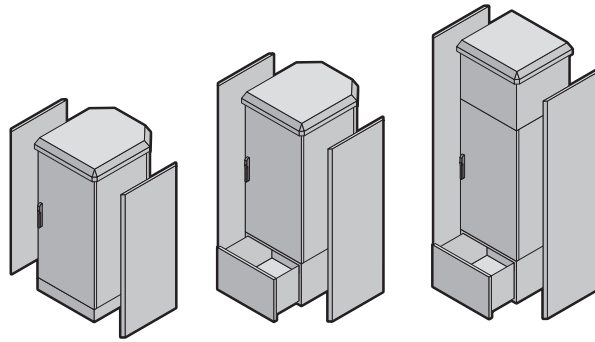
Order example:
Enclosure 800 x 800 x 600 mm of aluminium AIMg3 with standard base/plinth and roof-mounted cooling unit.

You will need:

Enclosure:	Basic enclosure 600 x 800 x 600 mm	CS 9751.015
Base/plinth:	Standard base/plinth 100 mm	CS 9755.015
Roof-mounted climate control:	Roof-mounted cooling unit	CS 9762.012
	Mounting frame	CS 9765.051
	Climate hood	CS 9756.015
Roof:	Standard roof	CS 9757.015
Side panel:	Side panel for 100 mm base/plinth and roof-mounted climate control	CS 9753.095

CS modular enclosures

Installation variants, width 800/1200 mm



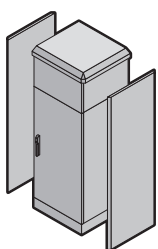
Material:
Enclosure, roof and side panel:
2.0 mm aluminium AlMg3
Base/plinth, battery plinth:
3.0 mm aluminium AlMg3

Colour:
RAL 7035
Protection category:
IP 55 to EN 60 529/09.2000,
complies with NEMA 3R.

Other climate control devices,
from page 883.
Note:
Please note the minimum enclosure dimensions when making your selection.

The enclosures are manufactured to order from individual modules.
Delivery times available on request.

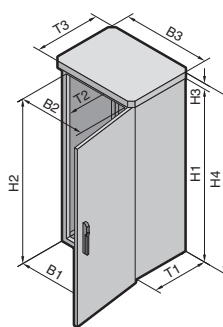
Width (W) mm	800	800	800	800	1200	1200	Page
Height (H) mm	1000	1200	1200	1600	1200	1200	
Depth (D) mm	500	500	600	600	500	600	
Model No. CS	9751.085	9751.045	9751.055	9751.065	9752.015	9752.025	
Base/plinth							
Standard base/plinth 100 mm	9755.025	9755.025	9755.035	9755.035	9755.045	9755.055	
Battery plinth 350 mm	9754.035	9754.035	9754.045	9754.045	2 x 9754.015	2 x 9754.025	
Roof-mounted climate control							
Cooling unit	9762.012	9762.012	9762.012	9762.012	9762.012	9762.012	883
Heat exchangers	9764.012	9764.012	9764.012	9764.012	9764.012	9764.012	884
Mounting frame for heat exchanger or cooling unit	9765.051	9765.051	9765.051	9765.051	9765.051	9765.051	
Climate hood	9756.025	9756.025	9756.035	9756.035	9756.045	9756.055	
Wall-mounted climate control							
Cooling unit	–	9761.032	9761.032	9761.032	9761.012	9761.012	883
Heat exchangers	–	9763.012	9763.012	9763.012	9763.012	9763.012	884
Roof							
Standard roof	9757.025	9757.025	9757.035	9757.035	9757.045	9757.055	
Roof for wall-mounted climate control	–	9758.025	9758.035	9758.035	9758.045	9758.055	
Side panel							
Side panel for 100 mm base/plinth	9753.175	9753.025	9753.035	9753.045	9753.025	9753.035	
Side panel for 350 mm base/plinth	9753.195	9753.065	9753.075	9753.085	9753.065	9753.075	
Side panel for 100 mm base/plinth and roof-mounted climate control	9753.185	9753.105	9753.115	9753.125	9753.105	9753.115	
Side panel for 350 mm base/plinth and roof-mounted climate control	9753.205	9753.145	9753.155	9753.165	9753.145	9753.155	



Order example:
Enclosure 800 x 1200 x 500 mm of aluminium AlMg3 with standard base/plinth and roof-mounted cooling unit.

You will need:

Enclosure:	Basic enclosure 800 x 1200 x 500 mm	CS 9751.045
Base/plinth:	Standard base/plinth 100 mm	CS 9755.025
Roof-mounted climate control:	Roof-mounted cooling unit	CS 9762.012
	Mounting frame	CS 9765.051
	Climate hood	CS 9756.025
Roof:	Standard roof	CS 9757.025
Side panel:	Side panel for 100 mm base/plinth and roof-mounted climate control	CS 9753.105



Material:

Enclosure frame:
1.5 mm stainless steel 1.4301 (AISI 304)
Rain canopy:
2.0 mm aluminium, AlMg3
Doors, side panels, base/plinth trim:
Sheet steel, hot-galvanised

Surface finish:

Zinc-phosphated, powder-coated in RAL 7035

Protection category:

IP 55 to EN 60 529/09.2000

Supply includes:

Double-walled outdoor enclosure fully pre-configured.
Rigid enclosure body, consisting of vertical sections based on TS 8, roof and integral base/plinth assembly.
Outer roof, door front and rear, side panels left and right secured to the enclosure frame and doubled on the inside, to allow baying possibilities.
Doors doubled by 25 mm on the outside and ventilated, r/h hinge, with swing lever handle and semi-cylinder with security lock.
Door stay lock for a door opening angle of 90°, 115° or 135°.
Roof with front and rear projection, vented.

Outer side panel screw-fastened from the inside, combined to form one unit with the inner side panel. Side panels removable, offering full side accessibility. Integral base/plinth including two screw-fastened gland plates for cable entry. Front and rear base/plinth trim screw-fastened to the enclosure frame must be dismantled to gain access to the mounting holes for the concrete base/plinth or foundation. Protection against removal of the roof, side panels and base/plinth trim.

Note:

The outer mounting level of the TS 8 vertical sections may only be used in the enclosure depth to a limited extent, as the side panel protrudes into the level.



Rittal service:

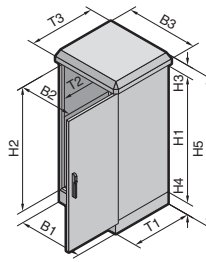
Toptec CR, 800 mm wide, with integral cooling unit or air/air heat exchanger, see page 886 for output data.

Detailed drawing,
see page 1300.

	Packs of	610	810	610	810	Page
Width (B1) mm						
Height (H1) mm		1200	1200	1600	1600	
Depth (T1) mm		653	653	653	653	
Clearance width (B2) mm		512	712	512	712	
Clearance height (H2) mm		1112	1112	1512	1512	
Clearance depth (T2) mm		512	512	512	512	
Rain canopy width (B3) mm		610	810	610	810	
Rain canopy height (H3) mm		40	40	40	40	
Rain canopy depth (T3) mm		700	700	700	700	
Overall height (H4) mm		1299	1299	1699	1699	
Model No. CS	1	9775.100	9775.200	9775.300	9775.400	
Accessories						
Concrete base/plinth	1	9765.166	9765.186	9765.166	9765.186	900
Mounting angles, 482.6 mm (19") full installation	2	7827.120	7827.120	7827.160	7827.160	1091
Installation kit for 482.6 mm (19") mounting angles	4	8612.060	7794.580	8612.060	7794.580	1095, 1096
Mounting kit CS for roof and base frame	4	9765.155	9765.155	9765.155	9765.155	987
Mounting plate	1	9765.092	9765.095	9765.093	9765.096	987
Gland plate	Size	4	4	4	4	From 1048
	No. of	2	2	2	2	
Eyebolts	4	4568.000	4568.000	4568.000	4568.000	974
Semi-cylinder	1	9785.040	9785.040	9785.040	9785.040	957

CS Basic enclosures

single-door, width 600 mm



Material:
Enclosure, roof and doors:
2.0 mm aluminium AlMg3
Base/plinth:
3.0 mm aluminium AlMg3

Colour:
RAL 7035

Protection category:
IP 55 to EN 60 529/09.2000 in
conjunction with the gland
plates available as accessories.

Supply includes:
Single-walled enclosure of
all-round solid construction,
with open base,
3-point locking via Ergoform
padlock and lock cylinder,
base/plinth, rain canopy.

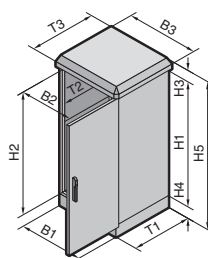
Detailed drawing,
see page 1301.

Note:
When installing a mounting plate
in the rearmost position, addi-
tional vertical mounting rails are
required in the enclosure height,
see page 998.

Width (B1) mm	Packs of	600	600	600	600	Page
Height (H1) mm		800	1200	1400	1200	
Depth (T1) mm		400	400	400	500	
Clearance width (B2) mm		512	512	512	512	
Clearance height (H2) mm		712	1112	1312	1112	
Clearance depth (T2) mm		349	349	349	449	
Rain canopy width (B3) mm		650	650	650	650	
Rain canopy height (H3) mm		75	75	75	75	
Rain canopy depth (T3) mm		450	450	450	550	
Base/plinth height (H4) mm		100	100	100	100	
Overall height (H5) mm		975	1375	1575	1375	
Model No. CS	1	9783.040	9783.050	9783.060	9783.030	
Accessories						
Concrete base/plinth	1	9765.182	9765.182	9765.182	9765.082	900
One-piece gland plate	1 set	9785.017	9785.017	9785.017	9785.020	913
Gland plate, divided	1 set	9785.011	9785.011	9785.011	9785.014	913
Cable entry plate	2	4320.700	4320.700	4320.700	4320.700	1045
Mounting plate	1	9765.090	9765.092	9765.098	9765.092	987
Mounting angles 482.6 mm (19"), full installation	2	7685.000	7688.000	7689.000	7688.000	1093
Installation kit for mounting angles	2	7696.000	7696.000	7696.000	7696.000	1093
Heater 800 W	1	9769.080	9769.080	9769.080	9769.080	709
Thermostat	1	3110.000	3110.000	3110.000	3110.000	715

CS Basic enclosures

single-door, width 800 mm



Material:
Enclosure, roof and doors:
2.0 mm aluminium AlMg3
Base/plinth:
3.0 mm aluminium AlMg3

Colour:
RAL 7035

Protection category:
IP 55 to EN 60 529/09.2000 in
conjunction with the gland
plates available as accessories.

Supply includes:
Single-walled enclosure of
all-round solid construction,
with open base,
3-point locking via Ergoform
padlock and lock cylinder,
base/plinth, rain canopy.

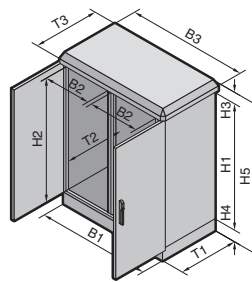
Detailed drawing,
see page 1301.

Note:
When installing a mounting plate
in the rearmost position, addi-
tional vertical mounting rails are
required in the enclosure height,
see page 998.

Width (B1) mm	Packs of	800	800	800	800	Page
Height (H1) mm		800	1200	1400	1200	
Depth (T1) mm		400	400	400	500	
Clearance width (B2) mm		712	712	712	712	
Clearance height (H2) mm		712	1112	1312	1112	
Clearance depth (T2) mm		349	349	349	449	
Rain canopy width (B3) mm		850	850	850	850	
Rain canopy height (H3) mm		75	75	75	75	
Rain canopy depth (T3) mm		450	450	450	550	
Base/plinth height (H4) mm		100	100	100	100	
Overall height (H5) mm		975	1375	1575	1375	
Model No. CS	1	9783.010	9783.020	9783.120	9783.110	
Accessories						
Concrete base/plinth	1	9765.088	9765.088	9765.088	9765.084	900
One-piece gland plate	1 set	9785.018	9785.018	9785.018	9785.019	913
Gland plate, divided	1 set	9785.012	9785.012	9785.012	9785.013	913
Cable entry plate	2	4321.700	4321.700	4321.700	4321.700	1045
Mounting plate	1	9765.097	9765.095	9765.099	9765.095	987
Mounting angles 482.6 mm (19"), full installation	2	7685.000	7688.000	7689.000	7688.000	1093
Installation kit for mounting angles	2	7698.000	7698.000	7698.000	7698.000	1093
Heater 800 W	1	9769.080	9769.080	9769.080	9769.080	709
Thermostat	1	3110.000	3110.000	3110.000	3110.000	715

CS Basic enclosures

two-door, width 1200 mm



Material:

Enclosure, roof and doors:
2.0 mm aluminium AlMg3
Base/plinth:
3.0 mm aluminium AlMg3

Colour:

RAL 7035

Protection category:

IP 55 to EN 60 529/09.2000 in
conjunction with the gland
plates available as accessories.

Supply includes:

Single-walled enclosure of
all-round solid construction,
with open base,
3-point locking via Ergoform
padlock and lock cylinder
Version without centre bar:
overlapping doors,
lockable door with r/h hinge.
Version with centre bar:
2 lockable doors,
base/plinth, rain canopy,
centre bar can be dismantled.

Detailed drawing,

see page 1301.

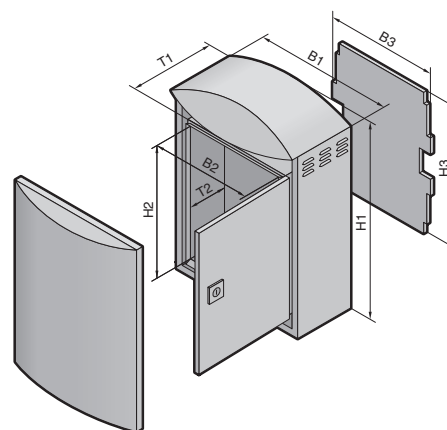
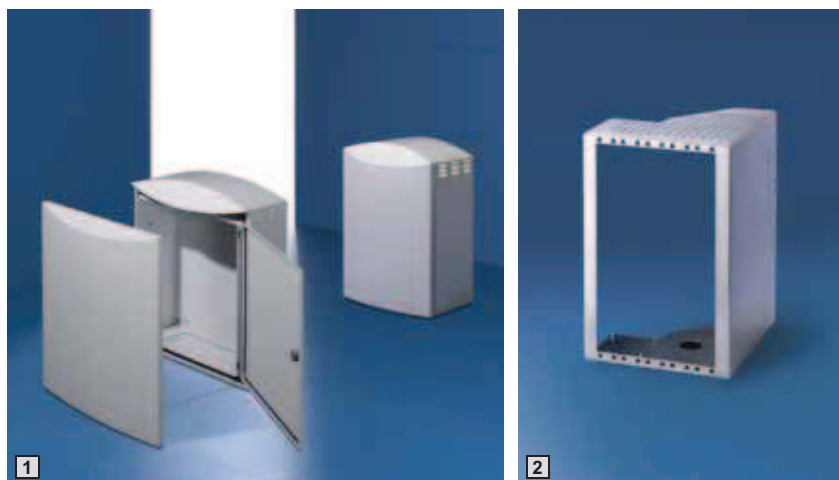
Note:

When installing a mounting plate
in the rearmost position, addi-
tional vertical mounting rails are
required in the enclosure height,
see page 998.

Width (B1) mm	Packs of	1200	1200	1200	1200	Page
Height (H1) mm		800	1200	1200	1400	
Depth (T1) mm		400	400	500	400	
Clearance width (B2) mm		512	512	512	512	
Clearance height (H2) mm		712	1112	1112	1312	
Clearance depth (T2) mm		349	349	449	349	
Rain canopy width (B3) mm		1250	1250	1250	1250	
Rain canopy height (H3) mm		75	75	75	75	
Rain canopy depth (T3) mm		450	450	550	450	
Base/plinth height (H4) mm		100	100	100	100	
Overall height (H5) mm		975	1375	1375	1575	
Model No. CS without centre bar	1	9784.110	9784.120	9784.140	9784.130	
Model No. CS with centre bar	1	9784.010¹⁾	9784.020	9784.040	9784.030	
Accessories						
Concrete base/plinth	1	9765.089	9765.089	9765.086	9765.089	900
One-piece gland plate	1 set	2 x 9785.017	2 x 9785.017	2 x 9785.020	2 x 9785.017	913
Gland plate, divided	1 set	2 x 9785.011	2 x 9785.011	2 x 9785.014	2 x 9785.011	913
Cable entry plate	2	4320.700	4320.700	4320.700	4320.700	1045
Mounting plate for one half of the enclosure	1	9765.090	9765.092	9765.092	9765.098	987
Mounting plate (full width)	1	9765.190	9765.191	9765.191	9765.192	987
482.6 mm (19") mounting angles for one half of the enclosure	2	7685.000	7688.000	7688.000	7689.000	1093
Installation kit for mounting angles	2	7696.000	7696.000	7696.000	7696.000	1093
Heater 800 W	1	9769.080	9769.080	9769.080	9769.080	709
Thermostat	1	3110.000	3110.000	3110.000	3110.000	715

¹⁾ Delivery times available on request.

CS wall-mounted enclosures



Material:

Aluminium AIMg3
Enclosure:
Exterior: 2.0 mm
Interior: 1.5 mm/2.0 mm
Doors: 2.0 mm
Mounting plate/rotating frame:
2.0 mm clear-chromated

Colour:

RAL 7035

Protection category:

IP 55 to EN 60 529/09.2000

Supply includes:

Inner enclosure with door,
aluminium mounting plate or
rotating frame,
security lock (CS 9791.045 and
CS 9791.145 with 2 security
locks),
foamed in door seals,
gland plate at bottom,
mounting bracket for thermostat,
outer enclosure with integral
vent louvres,
designer cover with security
lock, C rails on the rear panel.

Property rights for wall-mounted enclosure with mounting plate:

German registered design
no. 97 08 625
UK registered design
no. 2 072 965
IR reg. design no. DM/044 110
with validity for ES, FR, IT,
Indonesia
US patent no. 6,024,236
European patent no. 0 902 514
with validity for FI, GB, SE
Japan. patent no. 3 189 210

- 1 Wall-mounted enclosure with mounting plate
- 2 482.6 mm (19") rotating frame



Rittal service:

Complete interior installation
of the wall-mounted enclosure
up to integration Level 4 to the
customer's specifications is
available.

Detailed drawing,
see page 1302.

Width (B1) mm	Packs of	370/300	420/350	530/460	630/580	630/580	Page
Height (H1) mm		522.5/400	560.5/440	700/565	780/580	780/580	
Depth (T1) mm		210/170	210/170	265/220	380/333	380/333	
Clearance width (B2) mm		280	330	440	560	560	
Clearance height (H2) mm		380	420	545	560	560	
Clearance depth (T2) mm		145	145	195	308	240 ²⁾	
Mounting plate width (B3) mm		270	320	430	550	–	
Mounting plate height (H3) mm		380	410	535	550	–	
Model No. CS	1	9791.015	9791.025	9791.035	9791.045	9791.145¹⁾	
Accessories							
Wall mounting bracket	4	9765.120	9765.120	9765.120	9765.120	9765.120	976
Pole clamp	1 set	9765.125	9765.125	9765.125	9765.125	9765.125	976
Heater, 30 W	1	3115.000	3115.000	3115.000	3115.000	3115.000	709
Thermostat	1	3110.000	3110.000	3110.000	3110.000	3110.000	715

¹⁾ With 5 U rotating frame instead of mounting plate.

²⁾ Max. installation depth in the 482.6 mm (19") level.