



Enclosures, racks and control desks



## Spacial 6000 control desks



Spacial control desk  
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for user assembly, IP40 p. 250

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# Spacial control desks

## monobloc control desks (1)



external dimensions			number of front doors	desks without console			desks with console
height	width	depth		RAL 7032 sheet steel		stainless steel (2)	
				welded rear panel	removable rear panel	fixed rear panel	
1000	600	400	1	<b>19300</b>	–	–	–
		500	1	–	<b>19305</b>	<b>19405</b>	–
800	400	400	1	<b>19301</b>	–	–	–
		500	1	–	<b>19306</b>	<b>19406</b>	–
1000	400	400	2	<b>19302</b>	–	–	–
		500	2	–	<b>19307</b>	<b>19407</b>	–
1200	400	400	2	<b>19303</b>	–	–	–
		500	2	–	<b>19308</b>	<b>19408</b>	–
1400	800	400	1	–	–	–	<b>19311</b>
		600	1	–	–	–	<b>19316</b>
1000	400	400	2	–	–	–	<b>19312</b>
		600	2	–	–	–	<b>19317</b>
1200	400	400	2	–	–	–	<b>19313</b>
		600	2	–	–	–	<b>19318</b>
1600	400	400	2	–	–	–	<b>19314</b>
		600	2	–	–	–	<b>19319</b>

(1) Plinth optional.

(2) Stainless steel desks: other dimensions, stainless steel 304L, stainless steel 316L, microball finish, consulter our local sales office.

### General accessories



**Plinths**  
100/200 mm

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**Closure systems**

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**Windows**

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**Pneumatic desk lid stay**

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**PC monitor support**

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**Door accessories**

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### Accessories for assembly of automation equipment



**Perforated plates**

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**Chassis**

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**Vertical rails**

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**Cross rails**

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**DIN cross rails**

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**Cable ducting**

page 164

Temperature auxiliaries: fans, exchangers, cooling units, resistance heaters, see pages 266 to 301

## modular control desks (1)



## consoles



external dimensions			number of doors	desks without console with rear panel	
height	width	depth		RAL 7032	stainless steel (2)
1000	600	400	1	<b>19305</b>	<b>19405</b>
	800	400	1	<b>19306</b>	<b>19406</b>
	1000	400	2	<b>19307</b>	<b>19407</b>
	1200	400	2	<b>19308</b>	<b>19408</b>

(1) Plinth optional.

(2) Stainless steel desks: for other dimensions, stainless steel 304L, stainless steel 316L, microball finish, consult our local sales office.

external dimensions			consoles	
height	width	depth	RAL 7032 sheet steel	stainless steel (2)
483	400	200	<b>19323</b>	<b>19423</b>
		300	<b>19333</b>	<b>19433</b>
	600	200	<b>19325</b>	<b>19425</b>
		300	<b>19335</b>	<b>19435</b>

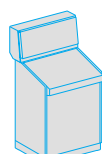
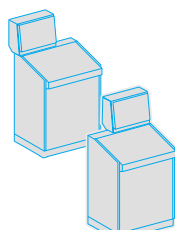
(2) Stainless steel consoles: for other dimensions, stainless steel 304L, stainless steel 316L, microball finish, consult our local sales office.

### desk width

### examples of control desk and console(s) combinations



**19305**

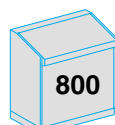


console plate

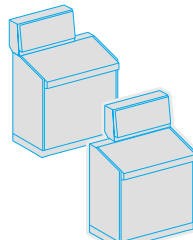
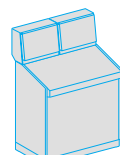
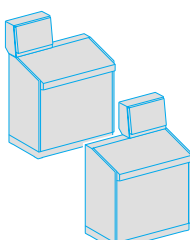
**19323/19333**  
**19340**

**19325/19335**

–



**19306**



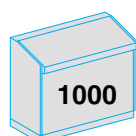
console plate

**19323/19333**  
**19342**

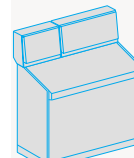
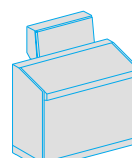
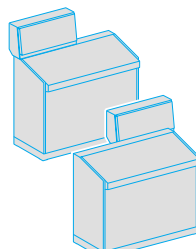
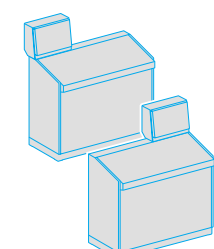
**2x19323/19333**

–

**19325/19335**  
**19340**



**19307**



console plate

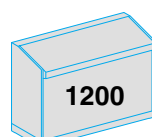
**19323/19333**  
**19344**

**19325/19335**  
**19342**

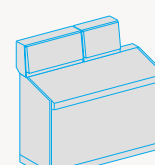
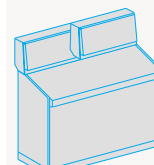
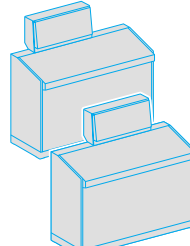
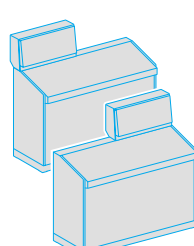
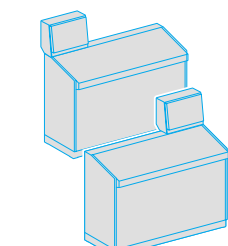
**19325/19335**  
**2x19340**

**19323+19325/19333+19335**

–



**19308**



console plate

**19323/19333**  
**19346**

**19325/19335**  
**19344**

**19325/19335**  
**2x19340+19342**

**2x19325/19335**

–

**19323+19325/19333+19335**  
**19340**

All mounting combinations of 400 and 600 mm wide consoles on control desks without console and with removable rear panel are possible.

If the total width of the console(s) is less than the width of the control desk, one or two removable plates must also be ordered.

These plates, available in 4 lengths (200, 400, 600 and 800 mm), conceal the cabling on the upper face of the control desk (see page 247).

# Spacial control desks

The new Spacial IP 55 control desk offer provides all the features necessary to create workstations that meet the requirements of both industry and infrastructures. A monobloc range, with and without console, and a modular range provide an ideal solution for all types of application. Their simple installation, compatibility with dialogue components (ensuring the safety and protection of control devices) and extensive range of desk sizes, respond to the most demanding requirements of users. Moreover, these desks can be fitted with the same accessories as for Spacial floor standing enclosures. All these features ensure optimum performance of the installation. Special versions: for stainless steel desks 304L, 316L, with or without paint finish or with cut-outs, consult our local sales office.



## monobloc desks without console

- This range comprises 4 desk widths (600, 800, 1000 and 1200 mm) and 2 versions:
  - with removable rear panel,
  - with welded rear panel.Irrespective of the version or the width of the desk, accessibility is unrestricted from the front (no central upright).
- The desks incorporate:
  - a pneumatic desk lid opening stay,
  - a 2-part adjustable cable gland plate for cable access,
  - hinges with removable pins for quick door removal or reversal of opening direction,
  - 2 perforated vertical mounting rails on the underside of the desk lid for simple and quick attachment of cable ties or ducting.



## desks with welded rear panel

- The control desks with welded rear panel incorporate 4 welded studs for the direct attachment of chassis or adjustment rails.

## desks with removable rear panel

- Greater in depth, the control desks with removable rear panel incorporate 4 adjustment rails which enable depth adjustment of the chassis on a 25 mm pitch.
- In addition, it is possible to mount 2 chassis back-to-back and thus greatly improve the amount of enclosed equipment, whilst maintaining full accessibility from the front and rear.
- The upper part of these desks incorporate removable plates for cable access. This feature also allows the addition of one or more modular consoles (see next page).



## monobloc desks with console

- With a fixed height of 1400 mm, these control desks are available in 4 widths (800, 1000, 1200 and 1600 mm), and 2 depths (400 and 600 mm).
- In order to provide full access to the enclosed equipment, these control desks incorporate:
  - one or two full height doors on the rear of the desk,
  - one or two doors on the front lower part of the desk,
  - a hinged desk lid with pneumatic stay,
  - a hinged cover on the console, with stay,
  - a 2-part adjustable cable gland plate for cable access,
  - hinges with removable pins for quick door removal or reversal of opening direction,
  - 2 perforated vertical mounting rails on the underside of the desk lid and also on the hinged cover of the console for simple and quick attachment of cable clips or ducting.
- Adjustment rails fitted in the desks enable the attachment of numerous combinations of chassis:
  - either a full-height chassis or 2 chassis mounted back-to-back in the lower part of the desk and 1 chassis in the upper part of the desk,
  - a chassis in the console base.
- The 600 mm deep console can house a 14" monitor and has a PC support plate option.



## modular control desks

- The combination of a monobloc control desk and one or more consoles gives total flexibility.
- The consoles are available in 2 widths (400 and 600 mm), and 2 depths (200 and 300 mm).  
For this combination, control desks with removable rear panel must be used, since they have the necessary features to support the console(s).  
When the total width of the consoles is less than the width of the desk, complementary removable plates are required to conceal the desk apertures remaining uncovered. These plates should be ordered separately. If required, they can also be used as cable gland plates for cable access.
- The console incorporates a screw fixed rear panel, serrated rails on the 600 mm depth version and a hinged cover with stay.



## accessories

- The majority of accessories necessary for furnishing the control desks are the same as for Spacial floor standing enclosures. They basically comprise:
  - plinths and castors,
  - door windows,
  - locks, barrels and inserts,
  - accessories for automation.



# Spacial control desks

## monobloc desks without console

### common characteristics

- Folded and welded sheet steel, 1.5 mm thick. Textured epoxy polyester powder paint finish, colour grey RAL 7032.
- Degree of protection IP 55. Resistance to external mechanical impact IK 10.
- Reversible door with 120° opening. Closure by 5 mm double bar lock (other inserts and barrels available as separate items to be ordered separately, see page 254).
- Desk lid fitted with pneumatic stay, 75° opening angle. Perforated reinforcement rails on 25 mm pitch.
- 2-part adjustable cable gland plate, with polyurethane gasket.
- M8 x 18 mm earth bolt for equipotential connections between the door and body of the desk.
- Plinths optional.

### desks with welded rear panel

- Desk fitted with:
  - 4 M8 x 25 mm studs for direct attachment of chassis,
  - 4 M8 x 16 mm studs for attachment of adjustment rails with brackets (available as accessories see page 259).

### desks with removable rear panel

- Desk fitted with adjustment rails (pitch 25 mm) and brackets, enabling depth adjustment of the chassis.

## monobloc desks with console

- Folded and welded sheet steel, 1.5 mm thick. Textured epoxy polyester powder paint finish, colour grey RAL 7032.
- Degree of protection IP 55. Resistance to external mechanical impact IK 10.
- Reversible front door with 120° opening.
- Rear door fitted with 3 point closure system, actuated by rod linking system with 5 mm double bar insert lock.
- Desk lid fitted with pneumatic stay. 75° opening angle. Perforated reinforcement rails on 25 mm pitch.
- Console hinged cover fitted with mechanical stay. 75° opening angle.
- Doors, desk lid and console hinged cover closure by 5 mm double bar lock (other inserts and barrels available as separate items, see page 254).
- Control desk fitted with adjustment rails on 25 mm pitch and brackets, enabling depth adjustment of the chassis fitted in the lower part of the desk. It is possible to fit a full-height chassis in the desk and/or a chassis in the upper part of the desk by ordering a set of adjustment rails and fixing brackets as separate items.
- 2-part adjustable cable gland plate, with polyurethane gasket.
- M8 x 18 mm earth bolt for equipotential connections between the door and body of the desk.
- Plinths optional.



### sheet steel RAL 7032 desk with welded rear panel

desk reference	dimensions			pack qty.
	width	height	depth	
<b>19300</b>	600	1000	400	1
<b>19301</b>	800	1000	400	1
<b>19302</b>	1000	1000	400	1
<b>19303</b>	1200	1000	400	1

### sheet steel RAL 7032 desk with removable rear panel

desk reference	dimensions			pack qty.
	width	height	depth	
<b>19305</b>	600	1000	500	1
<b>19306</b>	800	1000	500	1
<b>19307</b>	1000	1000	500	1
<b>19308</b>	1200	1000	500	1

### stainless steel 304 desk with removable rear panel

desk reference	dimensions			pack qty.
	width	height	depth	
<b>19405</b>	600	1000	500	1
<b>19406</b>	800	1000	500	1
<b>19407</b>	1000	1000	500	1
<b>19408</b>	1200	1000	500	1

### desk with console RAL 7032

reference	desk with console			pack qty.
	width	height	depth	
<b>19311</b>	800	1400	400	1
<b>19312</b>	1000	1400	400	1
<b>19313</b>	1200	1400	400	1
<b>19314</b>	1600	1400	400	1
<b>19316</b>	800	1400	600	1
<b>19317</b>	1000	1400	600	1
<b>19318</b>	1200	1400	600	1
<b>19319</b>	1600	1400	600	1

# Spacial control desks

## modular desks

The combination of a monobloc control desk (without console and with a removable rear panel ref. 19305 to 19308), with one or more modular consoles, gives total flexibility (see page 243).

### modular consoles

- 2 widths: 400 and 600 mm.
- 2 depths: 200 and 300 mm.
- Folded and welded sheet steel, 1.5 mm thick. Textured epoxy polyester powder paint finish, colour grey RAL 7032.
- Degree of protection IP 55. Resistance to external mechanical impact IK 10.
- Console hinged cover fitted with mechanical stay. 75° opening angle.
- Console hinged cover closure by 5 mm double bar locks (other inserts and barrels available as separate items, see page 254).
- Screw fixed rear panel, fitted with serrated rails on the 300 mm depth version.
- In some cases, the attachment of a console to the control desk will necessitate the use of one or more removable plates (these plates to be ordered separately).
- Plinths optional.



### sheet steel RAL 7032 console

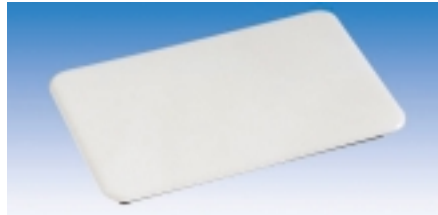
reference	console		pack qty.
	width	depth	
<b>19323</b>	400	200	1
<b>19333</b>	400	300	1
<b>19325</b>	600	200	1
<b>19335</b>	600	300	1

### stainless steel 304 console

reference	console		pack qty.
	width	depth	
<b>19423</b>	400	200	1
<b>19433</b>	400	300	1
<b>19425</b>	600	200	1
<b>19435</b>	600	300	1

### removable plates

- For concealing control desk apertures when the total width of the console(s) is less than the width of the desk, (see examples of combinations page 243).  
In all cases, it is necessary to remove the top plate fitted to the control desk before attaching the consoles.
- 4 lengths: 200, 400, 600 and 800 mm.
- Sheet steel, 1.5 mm thick.
- These plates are available in two finishes:
  - textured epoxy polyester powder paint finish, colour grey RAL 7032,
  - stainless steel.
- Screw fixing.



### RAL 7032 removable plate

RAL 7032 reference	removable plate length (mm)	pack qty.
<b>19340</b>	200	1
<b>19342</b>	400	1
<b>19344</b>	600	1
<b>19346</b>	800	1

### stainless steel 304 removable plate

stainless steel reference	removable plate length (mm)	pack qty.
<b>19440</b>	200	1
<b>19442</b>	400	1
<b>19444</b>	600	1
<b>19446</b>	800	1

### stainless steel control desk example

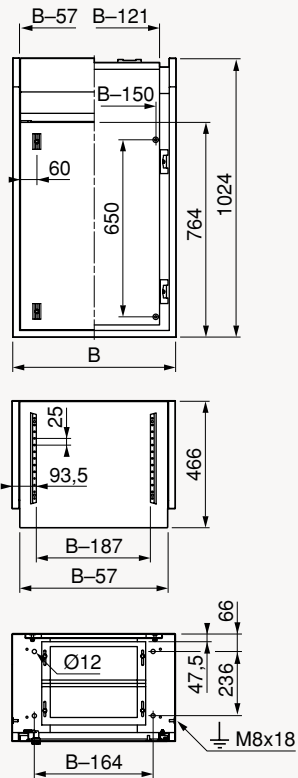
- Control desk with console.
- Consult our local sales office.



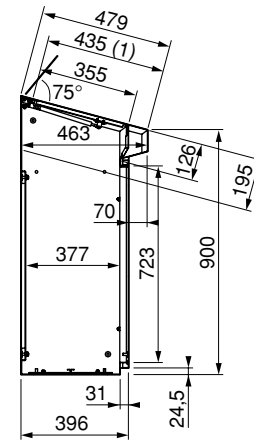
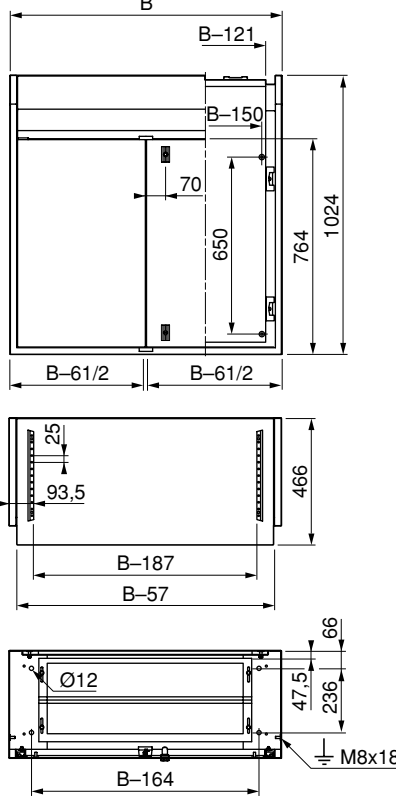


## monobloc control desks without console, with welded rear panel

### 1 door



### 2 doors



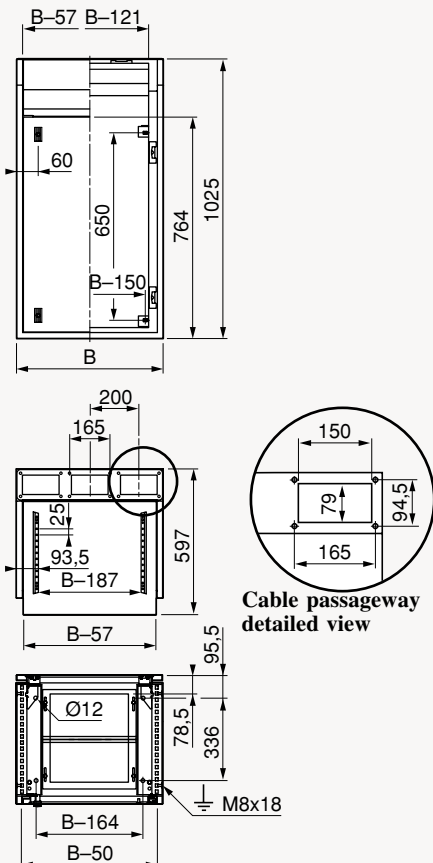
common side view

(1) Usable passageway

dimensions of cable gland plate passageway (mm)	
width	maximum opening
B-280	56

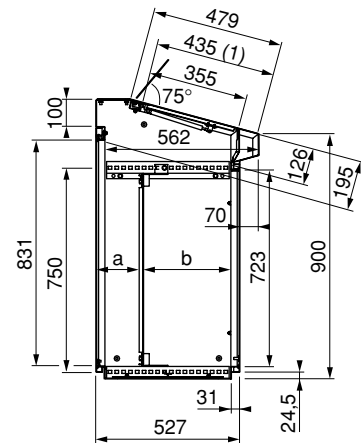
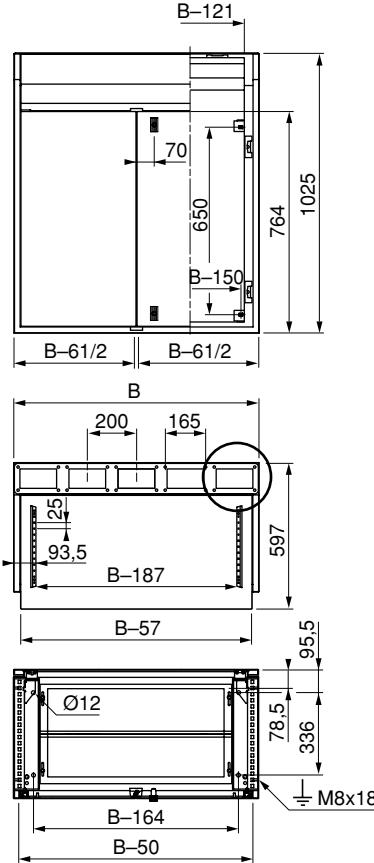
## monobloc control desks without console, with removable rear panel

### 1 door



Cable passageway detailed view

### 2 doors



common side view

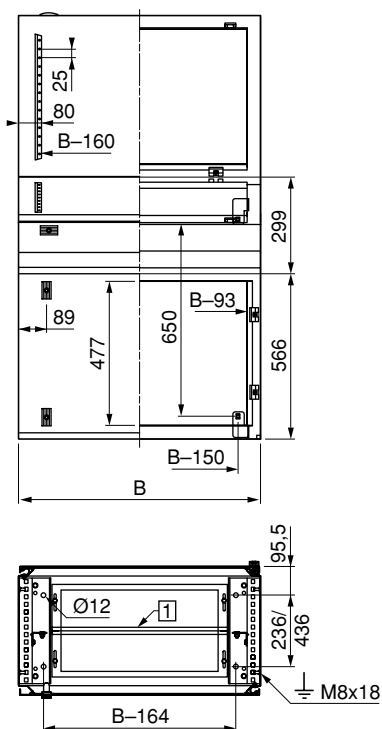
(1) Usable passageway

dimensions of cable gland plate passageway (mm)	
width	maximum opening
B-280	56

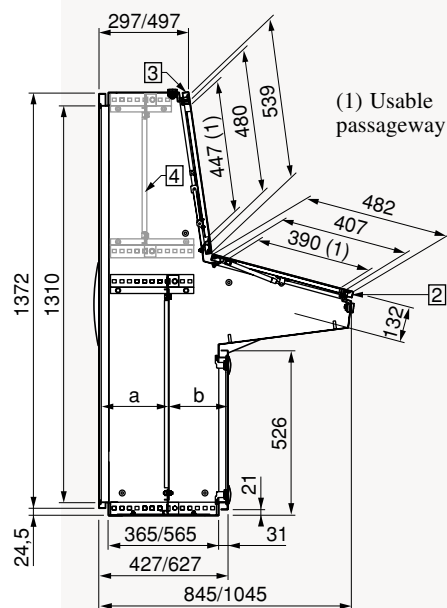
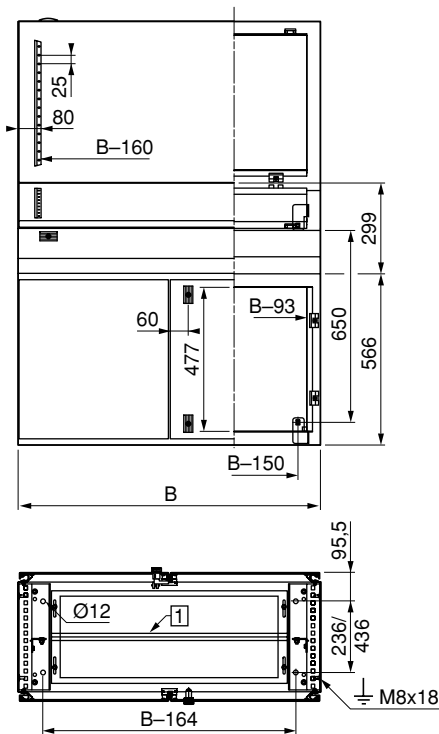
	depth adjustment of chassis	
	min.	max.
a	45	395
b	126	476

## monobloc control desks with console

### 1 door



### 2 doors



common side view

dimensions of cable gland plate passageway (mm)

width	maximum opening
B-280	56

### key

1	Cable gland plate, maximum opening: 56 mm
2	Maximum opening angle of desk lid: 75°
3	Maximum opening angle of hinged console cover: 75°
4	Optional console chassis

### depth adjustment of chassis

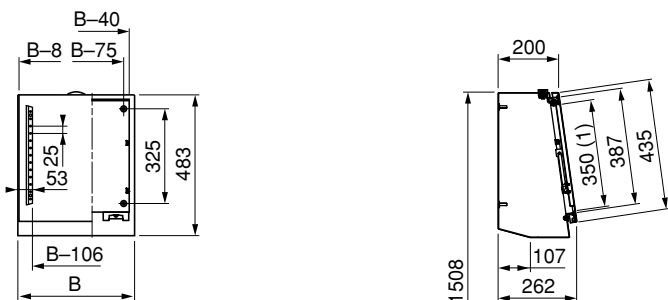
	min.	max.
a (2)	53	278/478 (3)
b (2)	143	368/568 (3)

(2) For 2 door control desks:

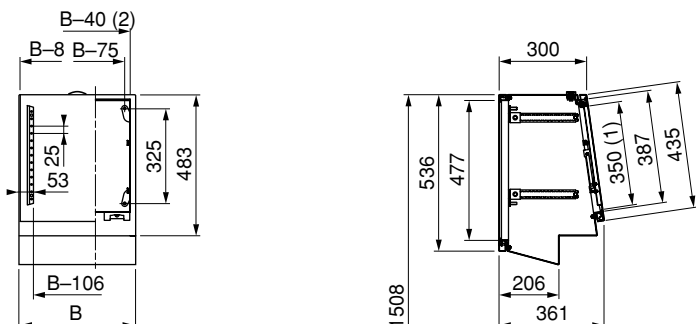
- a + 25 mm,
- b - 25 mm.

(3) Depending on depth of desk.

## modular consoles depth 200 mm



## modular consoles depth 300 mm



(1) Usable passageway.

(2) Same dimension for rear panel.

# control desks for user assembly IP 40

## structure

- Control desks comprising 2 parts, ready for assembly: support element + desk top, with or without console.
- Material: 2 mm thick sheet steel, zinc electroplated.
- Internally and externally protected with textured epoxy polyester powder paint finish, colour grey RAL 7032.
- Consult our local sales office.



Support element ref. 19030 + desk top ref. 19035



Support element ref. 19030 + console ref. 19045 + mixed chassis 19130

# control desks for user assembly IP 40

## desk without console

- Front panel and desk lid closure by No. 405 key locks.
- Fixed rear panel (removable version on request).
- Concealed, lift-off hinges.

external dimensions			no. of doors	without console reference		cable gland plate reference	chassis reference			wt. (kg) base + desk top
H	W	D		base	table		mixed asymmetric	plain		
900	950	540	1	<b>19030</b>	<b>19035</b>	<b>21455</b>	<b>19130</b>	<b>19235</b>	65	
900	1450	540	1	<b>19031</b>	<b>19036</b>	<b>21456</b>	<b>19131</b>	<b>19236</b>	80	
900	2050	540	1	<b>19032</b>	<b>19037</b>	<b>21457</b>	<b>19132</b>	<b>19237</b>	110	

## desk with console

- Front panel and desk lid closure by No. 405 key locks.
- Fixed rear panel (removable version on request).
- Concealed, lift-off hinges.

external dimensions			no. of doors	with console reference		cable gland plate reference	chassis reference			wt. (kg) base + desk top
H	W	D		base	table		mixed asymmetric	plain		
1177	950	650	1	<b>19030</b>	<b>19045</b>	<b>21455</b>	<b>19130</b>	<b>19235</b>	80	
1177	1450	650	1	<b>19031</b>	<b>19046</b>	<b>21456</b>	<b>19131</b>	<b>19236</b>	110	
1177	2050	650	1	<b>19032</b>	<b>19047</b>	<b>21457</b>	<b>19132</b>	<b>19237</b>	140	

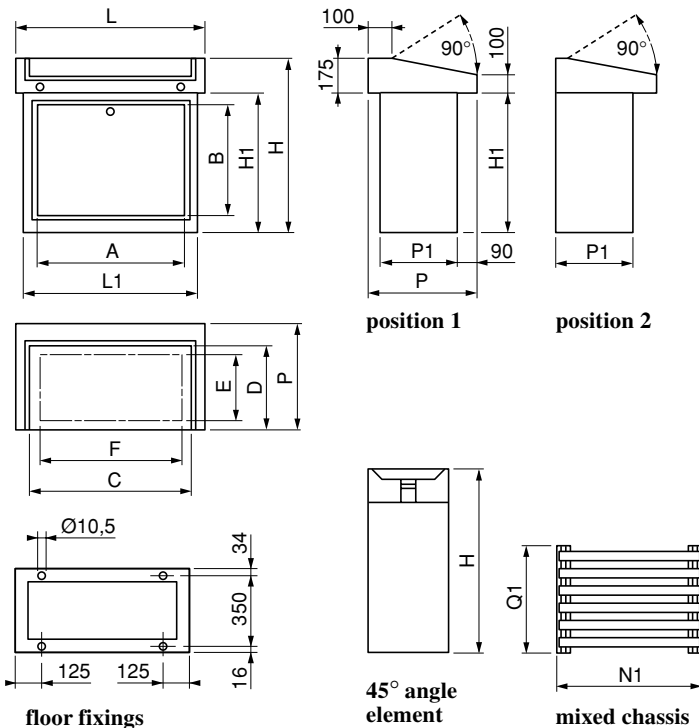
## 45° angle element

- When ordering, state whether position 1 or position 2 (see below).
- 90° angle element available on request.

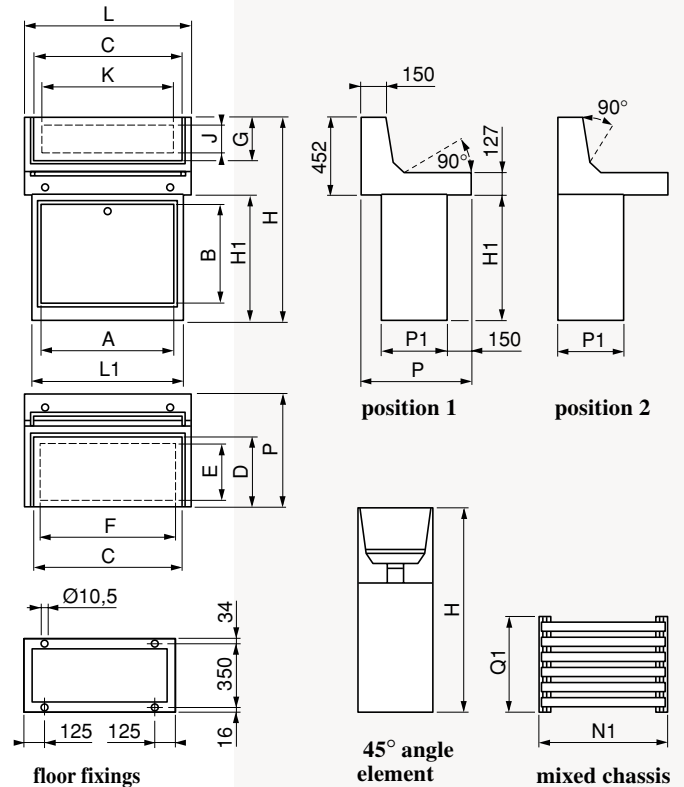
reference	for control desk
<b>19033</b>	without console
<b>19043</b>	with console

## dimensions

### control desk without console



### control desk with console



desk reference	external dimensions			base element passageway			usable desktop area		usable console area		base element dimensions			desk top and console dimensions			chassis dimensions	
	without console	with console		A	B	605	E	F	J	K	L1	H1	P1	C	D	G	N1	Q1
<b>19030/19035</b>	–	900	950	540	820	605	423	856	–	–	900	725	400	880	444	–	800	620
<b>19031/19036</b>	–	900	1450	540	1320	605	423	1356	–	–	1400	725	400	1380	444	–	1300	620
<b>19032/19037</b>	–	900	2050	540	1920	605	423	1956	–	–	2000	725	400	1980	444	–	1900	620
–	<b>19030/19045</b>	1177	950	650	820	605	374	856	247	856	900	725	400	880	396	270	800	620
–	<b>19031/19046</b>	1177	1450	650	1320	605	374	1356	247	1356	1400	725	400	1380	396	270	1300	620
–	<b>19032/19047</b>	1177	2050	650	1920	605	374	1956	247	1956	2000	725	400	1980	396	270	1900	620

When ordering please add the prefix ENN to the reference number.

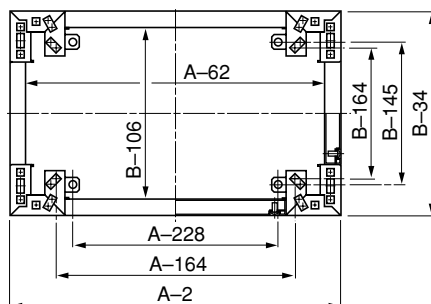
## plinths

- Folded sheet steel, 2.5 mm thick.
- 2 versions of plinth available:
  - textured epoxy polyester powder paint finish, colour RAL 7011, height 100 or 200 mm.
  - stainless steel sheet, height 100 mm.
- Degree of protection IP 30.
- Resistance to external mechanical impact IK 10.
- Maximum load: 650 kg.



plinth	desk	
	width A	depth B
Internal passageway	- 62	- 106
Desk fixings	- 164	- 164
Floor fixings	- 228	- 145

## dimensions



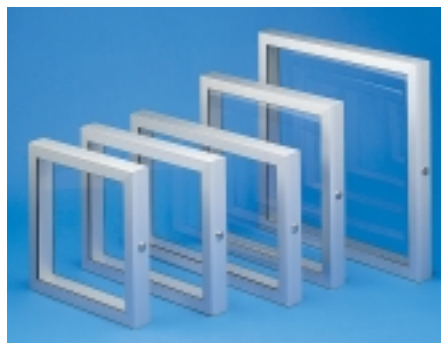
## castors

- Set of 4 castors.
- Rapid mounting on 100 and 200 mm height plinths.
- Colour RAL 7011.
- Maximum load: 75 kg per castor.
- To be used on an even surface.



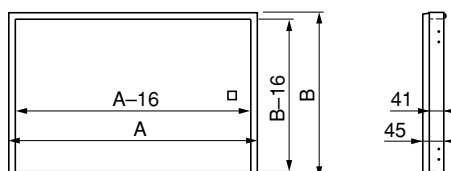
## glazed doors IP 54

- Prevent unauthorised personnel tampering with or accidentally operating control devices.
- Enable instant reading of all displayed information without opening the door.
- Construction: aluminium frame with altuglas window.
- Fitted with hinges for opening.
- Closure by lock No. 1242 E, RONIS type 911 B.
- Delivered with drilling template.



## acrylic window

- Smoked acrylic window with hinged cover for assembly in front panel (IP55).
- Closure by lock No. 1242 E (2 locks for height 800 mm).
- Delivered with 2 hinges (3 for height 800 mm) and fixings for assembly.
- Delivered with drilling template.



plinth ref.	height	for desk		pack qty.
		width.	dpth.	
100 mm	200 mm	600	400	1
<b>69064</b>	<b>69264</b>	600	400	1
<b>69065</b>	<b>69265</b>	600	500	1
<b>69084</b>	<b>69284</b>	800	400	1
<b>69085</b>	<b>69285</b>	800	500	1
<b>69086</b>	<b>69286</b>	800	600	1
<b>69104</b>	<b>69304</b>	1000	400	1
<b>69105</b>	<b>69305</b>	1000	500	1
<b>69106</b>	<b>69306</b>	1000	600	1
<b>69124</b>	<b>69324</b>	1200	400	1
<b>69125</b>	<b>69325</b>	1200	500	1
<b>69126</b>	<b>69326</b>	1200	600	1
<b>69164</b>	<b>69364</b>	1600	400	1
<b>69166</b>	<b>69366</b>	1600	600	1

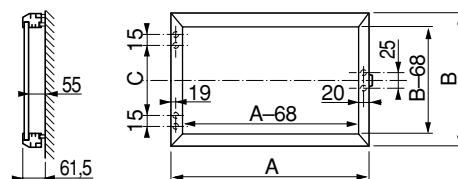
## plinths stainless steel 304

s/s plinth ref.	height 100 mm	for desk		pack qty.
		width	depth	
<b>69334</b>		600	500	1
<b>69335</b>		800	500	1
<b>69336</b>		1000	500	1
<b>69337</b>		1200	500	1

castors reference	pack qty.
<b>11501</b>	1

reference	glazed door			pack qty.
	A	B	C	
<b>17644</b>	400	400	220	1
<b>17645</b>	500	400	220	1
<b>17646</b>	600	400	220	1
<b>17647</b>	800	400	220	1
<b>17655</b>	500	500	320	1
<b>17657</b>	600	500	320	1
<b>17658</b>	800	500	320	1
<b>17666</b>	600	600	320	1

## dimensions



reference	door window			pack qty.
	A	B	depth	
<b>17627</b>	200	400	45	1
<b>17630</b>	400	400	45	1
<b>17633</b>	500	400	45	1
<b>17636</b>	600	400	45	1
<b>17639</b>	800	400	45	1
<b>17628</b>	200	500	45	1
<b>17631</b>	400	500	45	1
<b>17634</b>	500	500	45	1
<b>17637</b>	600	500	45	1
<b>17640</b>	800	500	45	1
<b>17629</b>	200	600	45	1
<b>17632</b>	400	600	45	1
<b>17635</b>	500	600	45	1
<b>17638</b>	600	600	45	1
<b>17641</b>	800	600	45	1

## PC monitor support

- For control desk with 600 mm depth monobloc console.
- The support comprises a galvanised plain chassis, for attachment in the horizontal position on the adjustment rails of the console.
- Delivered with fixings.

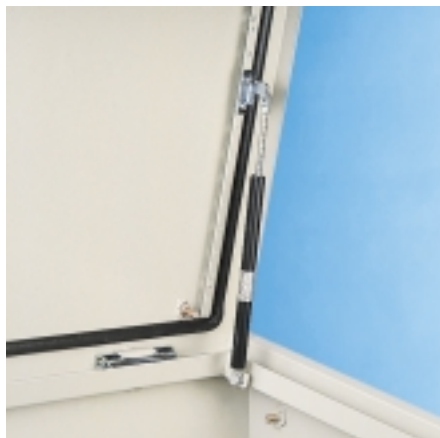


reference	for width	pack qty.
<b>19520</b>	800	1
<b>19521</b>	1000	1
<b>19522</b>	1200	1
<b>19523</b>	1600	1

## pneumatic desk lid stay

- Holds the desk lid in the open position at an angle of 75°.
- Delivered with fixings.
- Select the stay in accordance with the total load on the desk lid (see the table below).

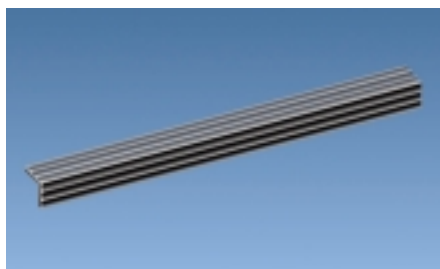
desk reference	console weight (kg)
<b>19300</b> and <b>19305</b>	5.6
<b>19301</b> and <b>19306</b>	7.3
<b>19302</b> and <b>19307</b>	9
<b>19303</b> and <b>19308</b>	11.7
<b>19311</b> and <b>19316</b>	5.7
<b>19312</b> and <b>19317</b>	7
<b>19313</b> and <b>19318</b>	8.2
<b>19314</b> and <b>19319</b>	10.7



lid stay reference	maximum load per stay (kg)	pack qty.
<b>19530</b>	21	1
<b>19531</b>	24	1
<b>19532</b>	29	1

## document lip

- Retaining lip for attachment to front of the inclined desktop to prevent falling of documents or other items.
- Material: PVC, colour grey RAL 7011.
- Glued attachment.



reference	desk width	pack qty.
<b>19540</b>	600	1
<b>19541</b>	800	1
<b>19542</b>	1000	1
<b>19543</b>	1200	1
<b>19544</b>	1600	1

## distribution rail with circuit-breaker

- Protection by two-pole thermal magnetic circuit breaker.
- Supply lead length 2 m (3 x 1.5 mm<sup>2</sup>) type H0 5 VVF, fitted with integrally moulded 2P + E plug, 250 V 10/16 A conforming to NFC 61303 and DIN 49441.
- 2 versions: for UTE or VDE plinth sockets.
- Direct attachment to framework using brackets ref. **11284**.



number of sockets	socket reference		pack qty.
	UTE	VDE	
6	<b>11292</b>	<b>11295</b>	1
12	<b>11294</b>	<b>11297</b>	1

length	height	depth	no. sockets	no. fixings
704	44	76	6	2
1232	44	76	12	2

## distribution rail with switch

- Protection by two-pole switch with pilot light.
- Supply lead length 2 m (3 x 1.5 mm<sup>2</sup>) type H0 5 VVF, fitted with integrally moulded 2P + E plug, 250 V 10/16 A conforming to NFC 61303 and DIN 49441.
- 2 versions: for UTE or VDE plinth sockets.
- Direct attachment to framework using brackets ref. **11284**.



number of sockets	socket reference		pack qty.
	UTE	VDE	
7	<b>11286</b>	<b>11289</b>	1
10	<b>11288</b>	<b>11291</b>	1

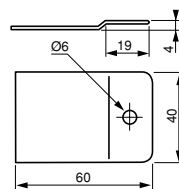
length	height	depth	no. sockets	no. fixings
704	44	42	7	2
968	44	42	11	2

## fixing brackets

- Enable vertical attachment of distribution rails.
- Set of 2 brackets, delivered with fixings.
- Material: zinc plated steel.
- Orientation of rail in longitudinal axis of the rack: ref. **11283**, other orientations ref. **11284**.



**11284**



**11283**

brackets ref	thickness	pack qty.
<b>11284</b>	25/10	1
<b>11283</b>	10/10	1

## locks without handle

### small escutcheon

- Material: polyamide PA 6 glass fibre impregnated (30%).
- Colour RAL 7011.
- Flame resistance 650°.
- Storage temperature: + 55°C to - 25°C.
- Resistance to external mechanical impact: IK 10.
- Breakage torque of inserts: 15 daN.
- Delivered with fixings (insert not included).
- Various inserts and barrels available.

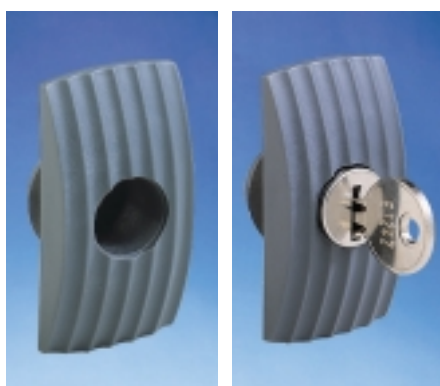


### small escutcheon

reference	description	pack qty.
63760	Small escutcheon (replacement)	1

### insert shape/type

reference	description	pack qty.
51256	Double bar 3 mm	1
51257	Double bar 5 mm	1
51279	Triangular 6.5 mm CNOMO	1
51282	Triangular 8 mm	1
51263	Square male 6 mm	1
63763	Square male 7 mm	1
63765	Screwdriver slotted	1
63769	Removal tool	1



63760

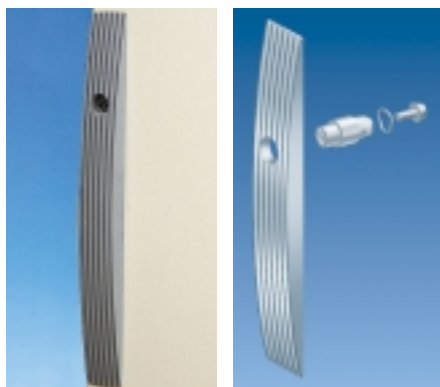
63773

### cylindrical barrels

reference	description	pack qty.
63770	Clé 405 E	1
63771	Clé 421 E	1
63772	Clé 455 E	1
63773	Clé 1242 E	1
63774	Clé 2131 E	1
63775	Clé 2132 A	1
63776	Clé 2433 A	1
63777	Clé 3113 A	1
63778	Clé 3432 E	1
63779	Clé EDF 1400	1

### flat escutcheon

- Material: polyamide PA 6 glass fibre impregnated (30%).
- Colour RAL 7011.
- Flame resistance 650°.
- Temperature resistance: + 20°C to - 25°C.
- Storage temperature: + 55°C to - 25°C.
- Resistance to external mechanical impact: IK 10.
- Breakage torque of inserts: 15 daN.
- Delivered with fixings (insert not included).
- Various inserts and barrels available.



reference	description	pack qty.
63750	Flat escutcheon	1

### insert shape type

reference	description	pack qty.
63753	Square male 7 mm	1
63754	Square female 8 mm	1
63756	Triangular 6.5 mm	1
63752	Triangular 8 mm	1
63751	Double bar Ø 5 mm	1
63755	Screwdriver slotted	1

## pivoting handle

### standard lock

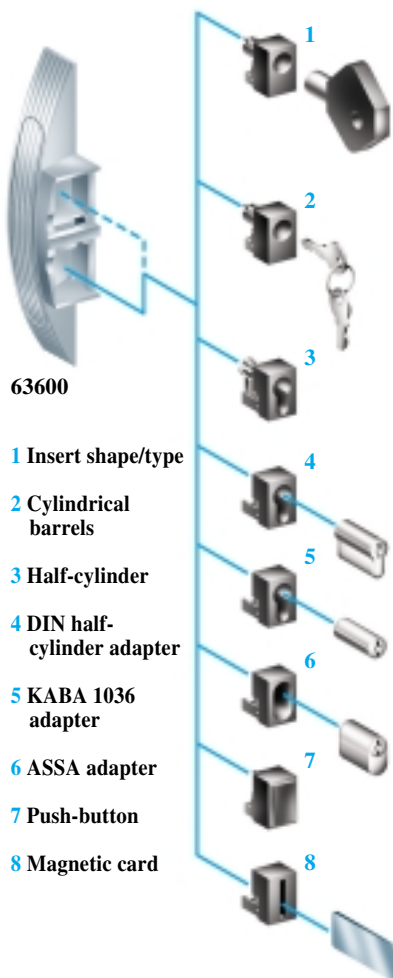
- Ergonomic door closure system using pivoting handles (**inserts not included**).
- Comprehensive range of lock inserts to meet various requirements (specific shape/type inserts, DIN, KABA, ASSA cylinders and magnetic card).
- To accommodate change of door opening direction left/right, the lock is simply turned through 180° (held by 2 screws).
- Options:
  - padlockable handle, delivered with push-button mounted as standard,
  - CNOMO system,
  - magnetic card system.
 All options are compatible with the system supplied as standard on the enclosures.
- For other alternatives, please contact Sarel.
- Reference **63615** can be ordered and delivered with a specific key number (consult our local sales office).



### technical characteristics

- Material: PA 6 glass fibre impregnated (30%).
- Colour black RAL 7011.
- Flame resistance: 650°.
- Resistance to external mechanical impact: IK 10.
- Storage temperature: + 55 °C to - 25 °C.

Do not forget to include lock insert when ordering



**63600**

- 1 Insert shape/type
- 2 Cylindrical barrels
- 3 Half-cylinder
- 4 DIN half-cylinder adapter
- 5 KABA 1036 adapter
- 6 ASSA adapter
- 7 Push-button
- 8 Magnetic card

### handles and kits

reference	description	pack qty.
<b>63600</b>	Replacement standard handle	1
<b>63602</b>	Padlockable handle + PB	1
<b>63603</b>	CNOMO kit, 1 door, 6.5 mm	1
<b>63605</b>	CNOMO kit, 2 doors, 6.5 mm	1

### insert shape/type

reference	description	pack qty.
<b>63650</b>	Square 6 mm	1
<b>63651</b>	Square 7 mm	1
<b>63652</b>	Square 8 mm	1
<b>63653</b>	Square 8 mm, slotted	1
<b>63660</b>	Triangular 6.5 mm CNOMO	1
<b>63661</b>	Triangular 7 mm	1
<b>63662</b>	Triangular 8 mm	1
<b>63663</b>	Triangular 9 mm	1
<b>63664</b>	Triangular 10 mm	1
<b>63670</b>	Double bar 3 mm	1
<b>63671</b>	Double bar 5 mm	1
<b>63675</b>	Hexagonal female 10 mm	1
<b>63680</b>	Square 6 mm female	1
<b>63681</b>	Square 8 mm female	1
<b>63685</b>	Daimler Benz	1
<b>63686</b>	Fiat	1
<b>63687</b>	USA slotted	1
<b>63688</b>	Slotted 2 mm x 4 mm deep	1
<b>63689</b>	Crown	1

### cylindrical barrels

reference	description	pack qty.
<b>63700</b>	Key 405 E	1
<b>63701</b>	Key 421 E	1
<b>63702</b>	Key 455	1
<b>63703</b>	Key 1242 E	1
<b>63704</b>	Key 1332 E	1
<b>63705</b>	Key 2131 A	1
<b>63706</b>	Key 2132 A	1
<b>63707</b>	Key 2331 A	1
<b>63708</b>	Key 2433 A	1
<b>63709</b>	Key 2452 E	1
<b>63710</b>	Key 3113 A	1
<b>63711</b>	Key 3122 E	1
<b>63712</b>	Key 3123 E	1
<b>63713</b>	Key 3133 A	1
<b>63714</b>	Key 3422 E	1
<b>63715</b>	Key 3432 A	1
<b>63716</b>	Key EDF 1300	1
<b>63717</b>	Key EDF 1400	1

### half-cylinders and other inserts

reference	description	pack qty.
<b>63615</b>	Half-cylinder 1242 E	1
<b>63610</b>	DIN half-cylinder adapter	1
<b>63620</b>	KABA 1036 adapter (1)	1
<b>63625</b>	ASSA adapter	1
<b>63630</b>	Push-button	1
<b>63635</b>	Magnetic card, identical keys	1
<b>63636</b>	Magnetic card, different keys (2)	1

(1) Adapter for KABA 8, KABA 20 and KABA Start inserts.

(2) Consult our local sales office.



## 3 mounting solutions

### plain chassis



- For standard equipment.
- For installation of screw fixing components, fixing holes drilled by user.
- Cross rails added for clip-on components.
- Reference plate providing a true ground plane; suitable for electromagnetic compatibility (EMC).

### perforated chassis



- For standard equipment.
- For simple installation of screw fixing components, without the need for drilling fixing holes.
- Cross rails added for clip-on components.
- Modifiable solution, either during or after assembly of the equipment.

### mixed chassis



- Solution combining both perforated chassis and cross rails.
- Flexibility of use: enables installation of both screw fixing and clip-on components.
- Modifiable solution, either during or after assembly of the equipment.
- Possible to run power cabling from the rear.
- Equipment may be mounted on the front or rear.

## and one cabling solution for your equipment

- Ten sizes of cable ducting plus associated accessories.
- Optimal ducting sizes for maximum cabling capacity.
- Simplified installation:
  - snap-off tongues for cable entry,
  - 4 types of fixing accessories to suit the application: screw, clip-in, door mounting and chassis mounting.
- Important: no metal component parts enter the inside of the trunking, thus maintaining electrical insulation.
- Detailed offer on pages 262 and 263.

1	2	3	4	5	6
19238	64020	63828	63876	63856	63896
...	...	63834	63878	63858	63898
19254	64076		63880	63860	63900
55719	55419		63882	63862	63902
55726	55426		21031	21030	63910
63934				21034	
63935					
63936					

## plain chassis, galvanised

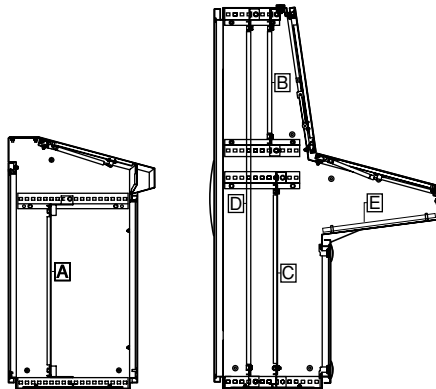
- Material: 2.5 mm thick galvanised sheet steel.



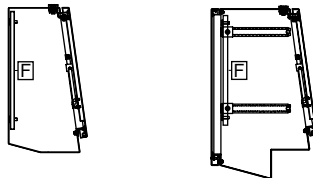
## chassis mounting possibilities in control desks

- Control desks without console, with removable rear panel over full-height A. In this case, depth adjustment on 25 mm pitch is available as standard.
- Control desks without console and without rear panel over full-height A. For depth adjustment on 25 mm pitch, order a set of 4 adjustment rails and 4 fixing brackets (see page 259).
- Control desks with console:
  - in upper part: B (1),
  - in lower part: C,
  - full-height: D (1),
  - in the desk section: E.

(1) For mounting in this position, order a set of 4 adjustment rails and 4 fixing brackets (see page 259).



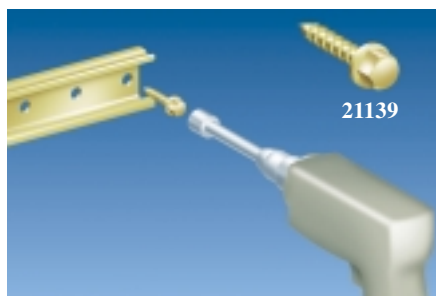
Chassis key notations A, B, C, D, E according to mounting position in desk



Chassis key notation F for consoles depth 200 and 300 mm

## self-piercing screws

- Hexagonal head, M 4.8 x 16 mm.
- Considerable savings in assembly times, no hole drilling or tapping required.
- Material: steel.



## for desks without console (A)

desk width	chassis reference	fixing ctrs.		usable area (dm <sup>2</sup> )	pack qty.
		W	H		
600	<b>19238</b>	450	650	35	1
800	<b>19239</b>	650	650	49	1
1000	<b>19240</b>	850	650	63	1
1200	<b>19241</b>	1050	650	77	1

## for desks with console(B)

desk width	chassis reference	fixing ctrs.		usable area (dm <sup>2</sup> )	pack qty.
		W	H		
800	<b>19246</b>	650	400	31	1
1000	<b>19247</b>	850	400	40	1
1200	<b>19248</b>	1050	400	49	1
1600	<b>19249</b>	1450	400	67	1

## for desks with console (C)

desk width	chassis reference	fixing ctrs.		usable area (dm <sup>2</sup> )	pack qty.
		W	H		
800	<b>19239</b>	650	650	49	1
1000	<b>19240</b>	850	650	63	1
1200	<b>19241</b>	1050	650	77	1
1600	<b>19254</b>	1450	650	105	1

## for desks with console (D)

desk width	chassis reference	fixing ctrs.		usable area (dm <sup>2</sup> )	pack qty.
		W	H		
800	<b>63934</b>	650	1250	90	1
1000	<b>63935</b>	850	1250	116	1
1200	<b>63936</b>	1050	1250	142	1

## for desks with console (E)

desk width	chassis reference	fixing ctrs.		usable area (dm <sup>2</sup> )	pack qty.
		W	H		
800	<b>19242</b>	650	350	28	1
1000	<b>19243</b>	850	350	36	1
1200	<b>19244</b>	1050	350	44	1
1600	<b>19245</b>	1450	350	60	1

## for console (F)

desk width	chassis reference	fixing ctrs.		usable area (dm <sup>2</sup> )	pack qty.
		W	H		
400	<b>55719</b>	325	325	12.25	1
600	<b>55726</b>	525	325	19.25	1

self-piercing screw reference	pack qty.
<b>21139</b>	100

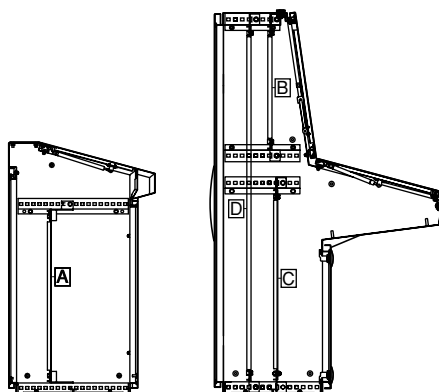
## perforated plates

- Allow the assembly of any equipment, without drilling or tapping.
- For the attachment of equipment, use clip nuts ref. **21163** to **21166**.
- Material: 2 mm thick steel.

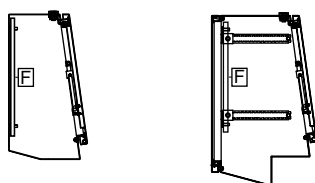


## chassis mounting possibilities in control desks

- Control desks without console, with removable rear panel over full-height A. In this case, depth adjustment on 25 mm pitch is available as standard.
  - Control desks without console and without rear panel over full-height A. For depth adjustment on 25 mm pitch, order a set of 4 adjustment rails and 4 fixing brackets (see page 259).
  - Control desks with console:
    - in upper part: B (1),
    - in lower part: C,
    - full-height: D (1),
    - in the desk section: E.
- (1) For mounting in this position, order a set of 4 adjustment rails and 4 fixing brackets (see page 259).



Chassis key notations A, B, C, D, E according to mounting position in desk



Chassis key notation F for consoles depth 200 and 300 mm

## push-in clip nuts

- Clip into perforations of plate, for fixing equipment.



21163 to 21166

## slotted hexagonal head screws

- slotted hexagonal head screws with captive washer.

thread	slotted hexagonal head screw with captive washer reference, length					pack qty.
	10 mm	12 mm	16 mm	18 mm	20 mm	
M4	<b>21090</b>	–	<b>21091</b>	–	–	100
M5	–	<b>21092</b>	–	<b>21093</b>	–	100
M6	–	<b>21094</b>	–	<b>21095</b>	–	100

## for desks without console (A)

desk width	plate ref.	fixing ctrs.		usable area (dm <sup>2</sup> )	pack qty.
		W	H		
600	<b>64020</b>	450	650	34	1
800	<b>64021</b>	650	650	48	1
1000	<b>64022</b>	850	650	61	1
1200	<b>64023</b>	1050	650	75	1

## for desk with console (B)

desk width	plate ref.	fixing ctrs.		usable area (dm <sup>2</sup> )	pack qty.
		W	H		
800	<b>64024</b>	650	400	30	1
1000	<b>64025</b>	850	400	39	1
1200	<b>64026</b>	1050	400	47	1

## for desks with console (C)

desk width	plate ref.	fixing ctrs.		usable area (dm <sup>2</sup> )	pack qty.
		W	H		
800	<b>64021</b>	650	650	48	1
1000	<b>64022</b>	850	650	61	1
1200	<b>64023</b>	1050	650	75	1

## for desks with console (D)

desk width	plate ref. (1)	fixing ctrs.		usable area (dm <sup>2</sup> )	pack qty.
		W	H		
800	2x <b>64056</b>	650	1250	85	1
1000	2x <b>64066</b>	850	1250	109	1
1200	2x <b>64076</b>	1050	1250	133	1

## for console (F)

console width	plate ref.	fixing ctrs.		usable area (dm <sup>2</sup> )	pack qty.
		W	H		
400	<b>55419</b>	325	325	11	1
600	<b>55426</b>	525	325	18	1

## heavy duty vertical rails

- Set of 2 heavy duty vertical rails.
- Fixing support for DIN cross rails and Telequick perforated plates.
- Height adjustment on 2.5 mm pitch (using 1/4-turn nuts ref. **64626**, **64628**, **64636** or **64638**) or on 25 mm pitch (using pivoting nuts ref. **64746** or **64748**).
- Material: 2 mm thick sheet steel.



reference	for desk height	centres	pack qty.
<b>63828</b>	1000	650	1
<b>63834</b>	1400	1250	1

## fixing brackets

- Set of 4 fixing brackets.
- Depth adjustment on 25 mm pitch.
- Included as standard with desks (except versions without console and with welded rear panel).
- Material: 4 mm thick galvanised steel
- Maximum load: 250 kg.
- To be ordered separately when required for installation in a control desk without console and with welded rear panel.



bracket reference	for desk width	pack qty.
<b>64600</b>	600 to 1600	1

## adjustment rails

- Set of 4 adjustment rails.
- For attaching a plain chassis or perforated plate in a monobloc desk without console and with welded rear panel.

adjustment rails reference	pack qty.
<b>64597</b>	1

## adjustment rails and fixing brackets

- Set of 4 adjustment rails and fixing brackets.
- For attaching a plain chassis or perforated plate in a monobloc desk with console, either in the upper part or full-height of the desk.

reference	for desks with console depth	pack qty.
<b>19500</b>	400 mm	1
<b>19502</b>	600 mm	1

## associated fixings

### 1/4-turn serrated nuts

- Clip on to heavy duty vertical rails from the front. Adjustable on 2.5 mm pitch.



**64626/64628**

**64636/64638**

1/4-turn nut reference	pack qty.	
M6	M8	
<b>64626</b>	<b>64628</b>	10
<b>64636</b>	<b>64638</b>	10

### pivoting nuts

- Slot into the 13 x 11 mm perforations of both the desk frame and the heavy duty vertical rails, on 25 mm pitch.



**64746/64748**

pivoting nut reference	pack qty.	
M6	M8	
<b>64746</b>	<b>64748</b>	50

### hexagonal head screws

- Slotted hexagonal head screws with captive washer.

thread	slotted hexagonal head screw with captive washer reference, length				pack qty.
	10 mm	12 mm	18 mm	20 mm	
M6	–	<b>21094</b>	<b>21095</b>	–	100
M8	–	–	–	<b>21097 (1)</b>	100

(1) Without washer.

## combined cross rail

- Combines the advantages of symmetric and asymmetric DIN rails.
- Attaches to heavy duty or standard duty vertical rails.
- For attachment of equipment, use 1/4-turn nuts ref. **64643** and **63645** or clip nuts ref. **64646** à **64648**.
- Material: 1.5 mm thick sheet steel.



cross rail reference	for desk width	pack qty.
<b>63896</b>	600	10
<b>63898</b>	800	10
<b>63900</b>	1000	10
<b>63902</b>	1200	10
<b>63910</b>	2 metre length	10

## symmetric DIN cross rail

- Attaches to heavy duty or standard duty vertical rails.
- For attachment of equipment, use clip nuts ref. **64646** to **64648**.
- Two symmetric DIN cross rails:
  - type A : 35 x 15, 15/10 mm thick,
  - type B : 35 x 7.5, 10/10 mm thick.



cross rail reference	for desk width	type	pack qty.
<b>63856</b>	600	A	10
<b>63858</b>	800	A	10
<b>63860</b>	1000	A	10
<b>63862</b>	1200	A	10
<b>21034</b>	2 metre length	A	10
<b>21030</b>	2 metre length	B	10

## asymmetric DIN cross rail

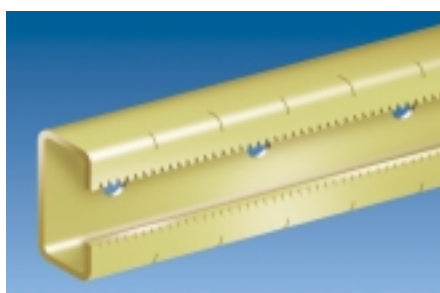
- Attaches directly to desk frame or to heavy duty or standard duty cross rails.
- For attachment of equipment, use 1/4-turn nuts ref. **21134** to **21136**.



cross rail reference	for desk width	pack qty.
<b>63876</b>	600	10
<b>63878</b>	800	10
<b>63880</b>	1000	10
<b>63882</b>	1200	10
<b>21031</b>	2 metre length	10

## serrated C cross rail for heavy equipment

- For attachment of equipment, use clip nuts ref. **64626**, **64628**, **64636** and **64638**.
- Rail cut to required length by user.
- Material: 2 mm thick steel.



cross rail reference	cross rail length	pack qty.
<b>63908</b>	2000	2

## associated fixings

### 1/4-turn sliding nuts

- Slot into combined rails.
- Two versions: M3/M4 or M5/M6.



**64643/64645**

**64646 to 64648**

1/4-turn nut reference	pack qty.	
M3/M4 <b>64643</b>	M5/M6 <b>64645</b>	100

### clip nuts

- Clip into both combined rails and symmetric DIN cross rails.

clip nut reference	pack qty.		
M4 <b>64646</b>	M5 <b>64647</b>	M6 <b>64648</b>	100

### 1/4-turn sliding nuts

- Slot into asymmetric DIN cross rails.



**21134 to 21135**

**64626/28 and 64636/38**

1/4-turn nut reference	pack qty.		
M4 <b>21134</b>	M5 <b>21135</b>	M6 <b>21136</b>	100

### 1/4-turn sliding nuts

- Clip into serrated C cross rails.

1/4-turn nut reference	pack qty.	
M6 <b>64626</b>	M8 <b>64628</b>	10
<b>64636</b>	<b>64638</b>	10

## hexagonal head screws

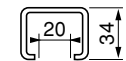
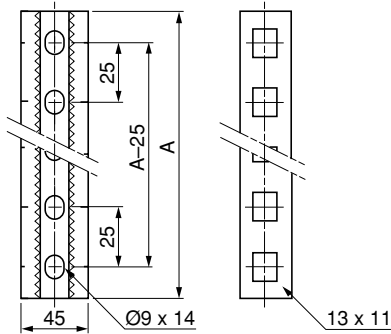
- Slotted hexagonal head screws with captive washer.

thread	slotted hexagonal head screw with captive washer reference, length					pack qty.
	10 mm	12 mm	16 mm	18 mm	20 mm	
M4	<b>21090</b>	–	<b>21091</b>	–	–	100
M5	–	<b>21092</b>	–	<b>21093</b>	–	100
M6	–	<b>21094</b>	–	<b>21095</b>	–	100
M8	–	–	–	–	<b>21097 (1)</b>	100

(1) Without washer.

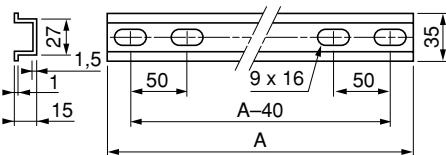
## dimensions

### heavy duty vertical rails



dim.	63828	63834
A	875	1275

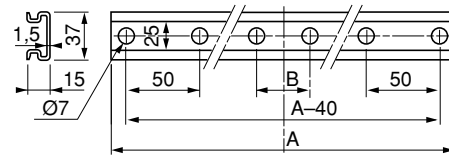
### symmetric DIN cross rails



dim.	63856	63858	63860	63862	21034
A	590	790	990	1190	2000 (1)

(1) Without perforations.

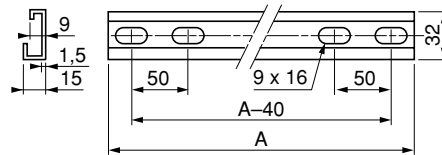
### combined rails



dim.	63896	63898	63900	63902	63910
A	590	790	990	1190	2000 (1)
B	-	-	150	150	-

(1) Without perforations.

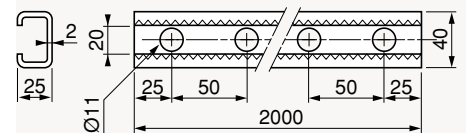
### asymmetric DIN cross rails



dim.	63876	63878	63880	63882	21031
A	590	790	990	1190	2000 (1)

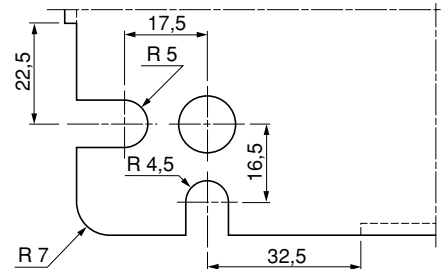
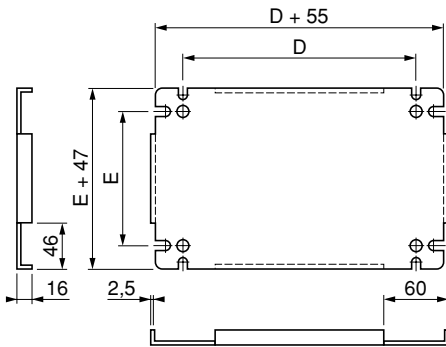
(1) Without perforations.

### serrated C cross rails



63908

### plain chassis

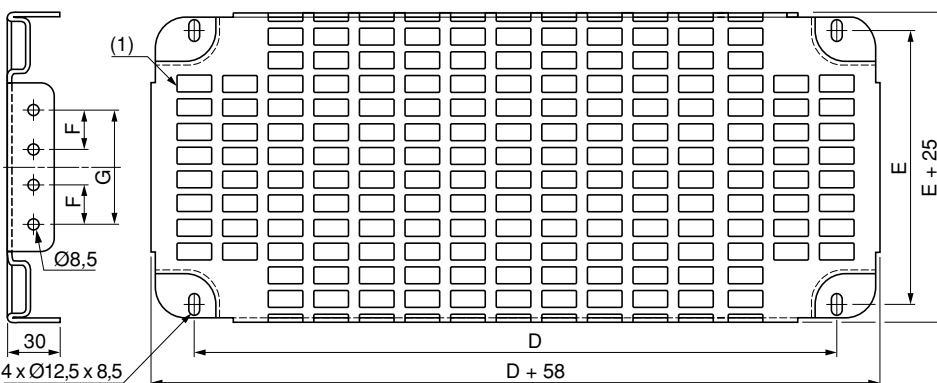


plain chassis reference	D	E
19238	450	650
19239	650	650
19240	850	650
19241	1050	650
19242	650	350
19243	850	350
19245	1050	350
19246	650	400
19247	850	400
19248	1050	400
19249	1450	400
19254	1450	650
55719	(1)	
55726	(1)	
63934	(2)	
63935	(2)	
63936	(2)	

(1) Dimensions, see page 74.

(2) Dimensions, see page 163.

### perforated plates



dim.	64020	64021	64022	64023	64024	64025	64026	64056	64066	64076	55419	55426
D	450	650	850	1050	650	850	1050	650	850	1050	(2)	(2)
E	650	650	650	650	400	400	400	575	575	575	-	-
F	-	-	-	-	-	-	-	125	125	125	-	-
G	550	550	550	550	300	300	300	475	475	475	-	-

(1) Perforations 11 x 26 on 15 x 30 pitch.

(2) Dimensions, see page 74.

# cabling accessories for automation

## cable ducting

### cable ducting with cover

- Side-slotted rigid PVC cable ducting with snap-off tongues between slots and perforations in base. Delivered in 2 m lengths. Colour grey RAL 7030.
- Conforming to standards VDE 0660/506, DIN 43659.
- Temperature resistance: - 5° to + 60°C.
- Flame resistance: V0 material conforming to UL 94.
- Flame resistance 960°C conforming to EN 60 695-2-1/1.
- Maximum capacity for flexible H07.V.K 1.5 mm<sup>2</sup> wires (filling coefficient 0.6): see table opposite.
- Continuity of vertical plane with 15 mm deep rails and perforated chassis.

### cable ducting covers

- Separate replacement covers.
- Delivered in 2 m lengths.

## fixing accessories

### screw fixings, insulated head

- Hexagonal slotted head M5 x 10 mm.
- Maintains electrical insulation.

### clip-in fixings, plastic foot

- Clips into slots of perforated plates or onto 35 mm cross rail.
- Integral latch for attaching ducting to 6.5 x 14 base perforated cross rail.
- The two functions, clip-in and latch, make for considerable savings in assembly time.
- Material: black polyamide. Fire resistance: V0 conforming to UL 94.
- Maintains electrical insulation.

### on door, Ø 22 cable ducting support

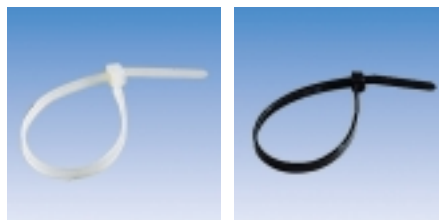
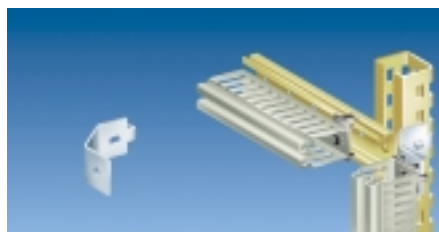
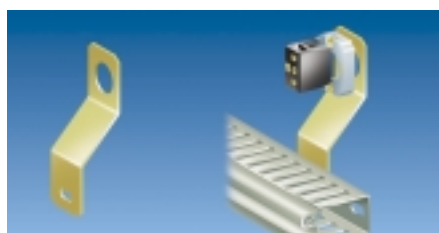
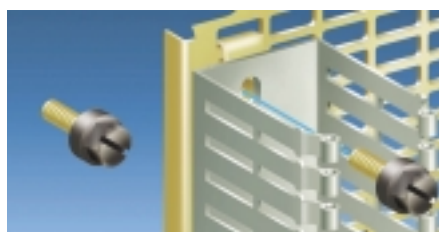
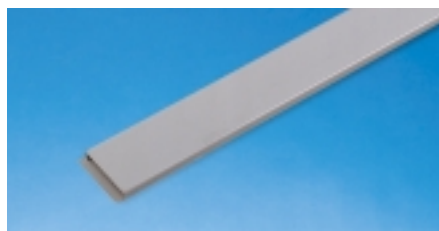
- Attaches to enclosure door in conjunction with Ø 22 mm products.
- Material: treated steel.

### on heavy duty cross rail, cable ducting support

- Enables attachment of the cable ducting to the heavy duty cross rails, thus increasing the usable surface area for mounting of equipment (additional 20%, depending on the width of the ducting).
- Material: treated steel.

### by cable ties

- Installation cable ties (see page 452).
- Cintura cable ties (see page 454).



cable ducting reference	dimensions		maximum capacity	pack qty. (metres)
	W	H		
<b>55905</b>	25	25	25	48
<b>55906</b>	25	50	65	48
<b>55907</b>	37.5	50	110	24
<b>55908</b>	37.5	75	160	24
<b>55909</b>	50	50	160	24
<b>55910</b>	50	75	240	24
<b>55911</b>	75	50	250	24
<b>55912</b>	75	75	400	24
<b>55913</b>	100	75	550	12
<b>55914</b>	125	75	700	12

covers reference	for ducting width	pack qty. (metres)
<b>55920</b>	25	48
<b>55921</b>	37.5	24
<b>55922</b>	50	24
<b>55923</b>	75	24
<b>55924</b>	100	12
<b>55925</b>	125	12

reference	description	pack qty.
<b>55901</b>	Insulated head screw M5x10	100

reference	description	pack qty.
<b>55902</b>	Plastic foot	20

reference	description	pack qty.
<b>55903</b>	Ø22 cable ducting support	10

reference	description	pack qty.
<b>55904</b>	Cable ducting support	10

# cabling accessories for automation

## referencing accessories

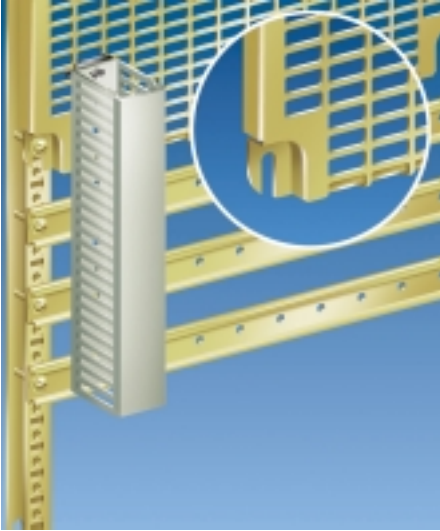
### legend holder

- Transparent plastic, clips onto the tongues between the side slots. Paper inserts included.
- Material: polycarbonate.

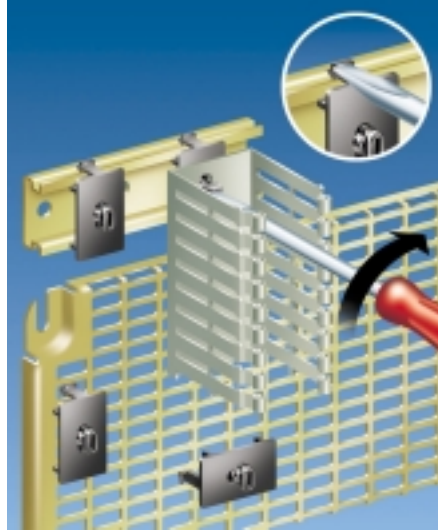


reference	description	pack qty.
55900	Legend holder	50

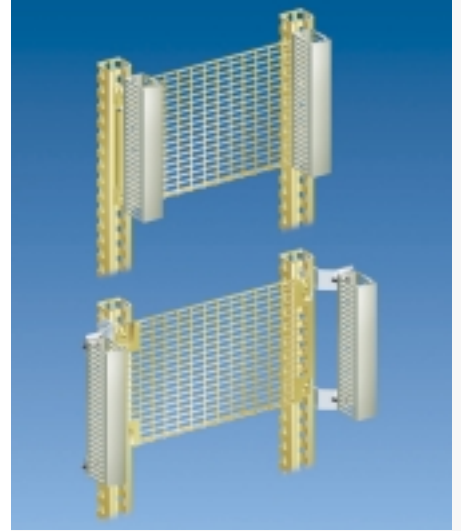
## installation



Continuity of vertical plane with respect to face of plate and 15 mm depth cross rails.



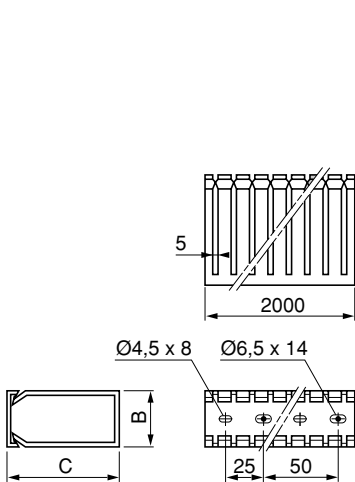
Attaches to clip-in plastic foot with integral latch. Simple 1/4-turn attachment of cable ducting. Latch device enables removal.



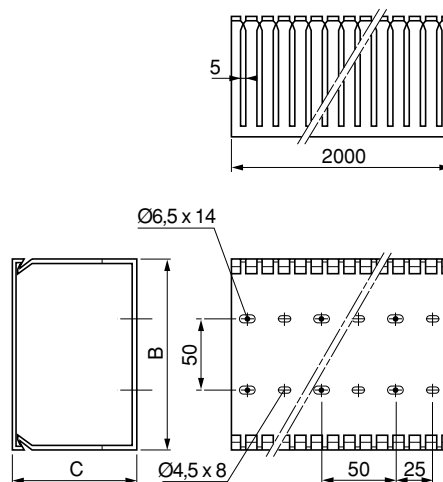
Ducting support ref. 55904 increases the usable surface area for mounting equipment and retains continuity of both the vertical and horizontal planes.

## dimensions

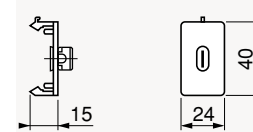
### cable ducting ref. 55905 to 55910



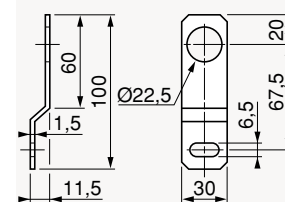
### ref. 55911 to 55914



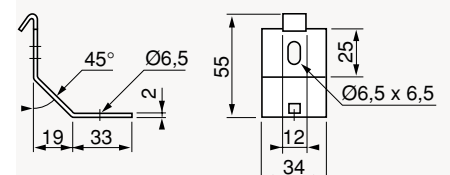
### plastic foot ref. 55902



### Ø22 ducting support ref. 55903



### ducting support ref. 55904



dim.	55905	55906	55907	55908	55909	55910	55911	55912	55913	55914
B	23	23	35.5	35.5	48	48	73	73	98	123
C	23	48	48	73	48	73	48	73	73	73

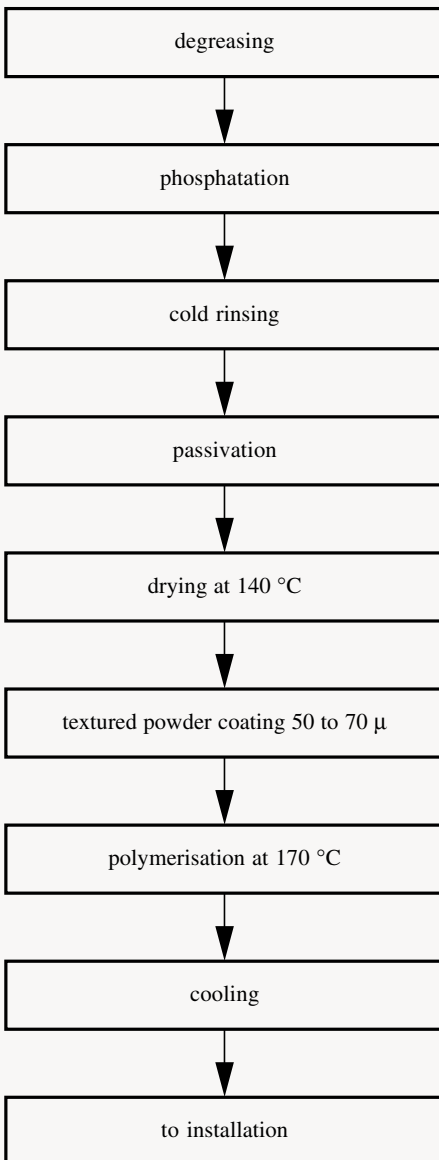


# polyester base coating properties

## product type

Thermosetting polyester resin based powder coating, modified by epoxy resins and designed for decoration but also for protection against corrosion. The performance of these coatings is superior to traditional epoxy powders in terms of colour stability, high temperature behaviour and weather resistance. Colour grey RAL 7032, textured appearance.

## manufacturing process



## mechanical properties

Test conditions: 0.8 mm thickness sheet steel samples. Cold degreasing using trichlorethylene. Film thickness: 60 microns.

Bonding (scratching and adhesive tape tests)	(NFT 30-038)	class 0
Ericksen stamping	(NFT 30-019)	>8 mm
Impact resistance	(NFT 30-017)	>1 kg/50 cm
Bending around cylindrical mandrel	(NFT 30-040)	3 mm
Bending around conical mandrel	(ASTM D 522)	no cracking
Persoz hardness	(NFT 30-016)	300-320 sec.

## physical properties

Temperature resistance: - 40°C and 100 hours at +150°C (colour: white). Gloss retention: good.

## chemical properties

Tests carried out at ambient temperature on phosphated samples coated with a 150 to 200 micron film:

■ film intact  
■ film attacked (blistering, yellowing, loss of gloss)

		number of months	2	4	6	8	10	12
<b>acid</b>	acetic	20 %	■					
	sulphuric	30 %	■					
	nitric	30 %	■		■			
	phosphoric	30 %	■					
	hydrochloric	30 %	■		■			
	lactic	10 %	■					
	citric	10 %	■		■			
<b>base</b>	soda	10 %	■		■			
	ammonia	10 %	■		■			
<b>water</b>	distilled water		■		■			
	sea water		■					
	town mains water		■					
	diluted bleach water		■		■			
<b>solvents</b>	petrol		■		■			
	higher alcohols		■		■			
	aliphatics		■		■			
	aromatics		■		■			
	ketones-esters		■					
	tri-perchloroethylene		■					

## corrosion resistance

Salt mist (NFX 41-002) from 200 to 1500 hours depending on the primer and surface treatment (solvent degreasing, sand blasting, phosphatation, etc.).

## nuclear decontamination

Standard NFT 30.901:  
- class 1-SC = 5 % for contamination by fission products,  
- class 4-SC = 99 % for contamination by plutonium.

## accelerated ageing

Test to QUV PANELS (ASTM G 53):  
4 hours UV cycle at 50 °C + 4 hours condensation at 40 °C :  
- 50 % gloss remaining at 60 °C after 100 to 250 hours,  
- colour variation after 100 to 250 hours  
Δ E = 2-4 NBS.

## fire behaviour







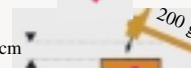
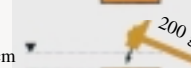


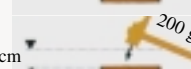
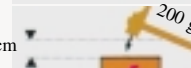

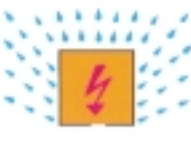
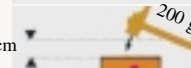
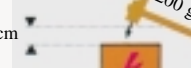


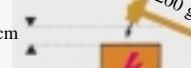













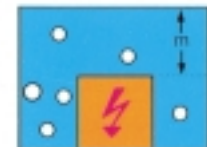
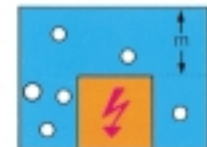




Class M 1 (self-extinguishing material).

# definition of degrees of protection

■ Degrees of protection provided by the enclosures housing low and medium voltage equipment (up to 1000 V ~ and 1500 V =) are defined by the French standards NF EN 60 529 (IP) and NF EN 50 102 (IK).

■ The degree of protection is indicated by the IP code, which comprises the letters IP followed by two characteristic numerals. IP = code indicating degree of protection provided by the enclosure against access to dangerous parts, penetration of solid foreign bodies and penetration of liquids.

■ The degree of protection against external mechanical impact is indicated by the IK code, which comprises the letters IK followed by two characteristic numerals. IK = code indicating degree of protection provided by the enclosure against external mechanical impact.

IP		IK	
first characteristic numeral	second characteristic numeral	mechanical protection	
protection against solid bodies	protection against liquids		
<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
			
No protection	No protection	No protection	No protection
<b>1</b>	<b>1</b>	<b>01</b>	<b>01</b>
			
Protected against solid bodies larger than 50 mm (eg: accidental contact with the hand)	Protected against vertically falling water droplets (condensation)	Impact energy 0.150 joule	Impact energy 0.150 joule
<b>2</b>	<b>2</b>	<b>02</b>	<b>02</b>
			
Protected against solid bodies larger than 12 mm (eg: finger contact)	Protected against water droplets deflected at up to 15° from vertical	Impact energy 0.200 joule	Impact energy 0.350 joules
<b>3</b>	<b>3</b>	<b>03</b>	<b>03</b>
			
Protected against solid bodies larger than 2.5 mm (tools, wires)	Protected against water spray at up to 60° from vertical	Impact energy 0.500 joules	Impact energy 0.700 joules
<b>4</b>	<b>4</b>	<b>04</b>	<b>04</b>
			
Protected against solid bodies larger than 1 mm (fine tools, small wires)	Protected against water spray from all directions	Impact energy 0.700 joules	Impact energy 1.00 joules
<b>5</b>	<b>5</b>	<b>05</b>	<b>05</b>
			
Protected against dust (no harmful deposits)	Protected against low pressure water jets from all directions	Impact energy 1.00 joules	Impact energy 2.00 joules
<b>6</b>	<b>6</b>	<b>06</b>	<b>06</b>
			
Totally dust tight	Protected against string water jets and waves	Impact energy 2.00 joules	Impact energy 5.00 joules
<b>7</b>	<b>7</b>	<b>07</b>	<b>07</b>
			
Protected against effects of temporary immersion	Protected against effects of temporary immersion	Impact energy 5.00 joules	Impact energy 10.00 joules
<b>8</b>	<b>8</b>	<b>08</b>	<b>08</b>
			
Protected against effects of prolonged immersion under pressure	Protected against effects of prolonged immersion under pressure	Impact energy 10.00 joules	Impact energy 20.00 joules
<b>9</b>		<b>09</b>	<b>09</b>
			
		Impact energy 20.00 joules	Impact energy 20.00 joules