

# 2: Stylebox 15

## 2.5.4 Rear Feet for Stylebox 15 Standard

- Protects the Stylebox 15 from damage when the case is lifted and set down by using the case handle
- **Scope of delivery:**
  - 2 height bezels rear
  - 4 rear feet
  - 4 screws M4x10
  - 4 plastic inserts



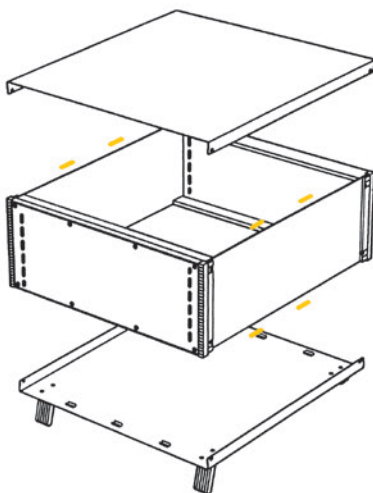
## 2.5.7 Rear Feet for Stylebox 15 Standard

Case Height Standard	Description Dark grey (NCS 5010-R90B)	Part-No.
2 U	Pair of rear feet 2 U incl. height bezel	15-112-5
3 U	Pair of rear feet 3 U incl. height bezel	15-113-5
4 U	Pair of rear feet 4 U incl. height bezel	15-114-5

## 2.5.5 EMC Shielding

### 2.5.5.1 Gaskets for Advanced EMC level (Stylebox 15 Standard)

- Vertical gaskets for cover plates (partial)
- To achieve an advanced EMC level with Stylebox 15 Standard
- No additional gaskets for width necessary
- Drawing shows the position of the gaskets



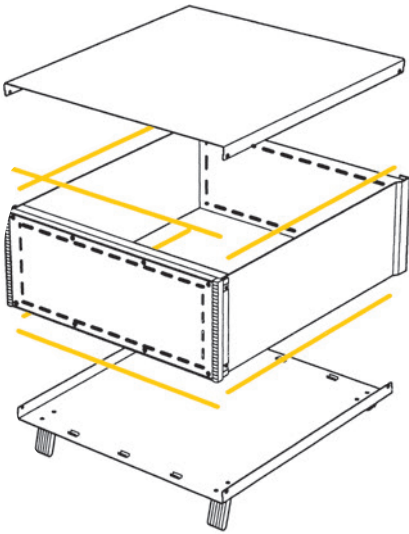
### Depth Gaskets for Covers

Case Depth		Scope of Delivery	Part-No.
mm	inch		
245	9.64	4 self-adhesive HF gaskets L = 30 mm	63-836-07
305	12.00	4 self-adhesive HF gaskets L = 30 mm	63-836-07
395	15.55	8 self-adhesive HF gaskets L = 30 mm	63-836-08
500	19.68	12 self-adhesive HF gaskets L = 30 mm	63-836-09

# 2: Stylebox 15

## 2.5.5.2 Gaskets for Superior EMC Level (Stylebox 15 Smart)

- Vertical and horizontal gaskets for cover plates (overall)
- To achieve a superior EMC level with Stylebox 15 Smart
- Order 1 set each for width, depth and rear panel
- Drawing shows the position of the gaskets



### Width Gaskets for Covers

Width	Scope of Delivery	Part-No.
42 HP	2 self-adhesive HF gaskets L = 216.5 mm	63-836-33
63 HP	2 self-adhesive HF gaskets L = 323 mm	63-836-34
84 HP	2 self-adhesive HF gaskets L = 430 mm	63-836-35

### Depth Gaskets for Covers

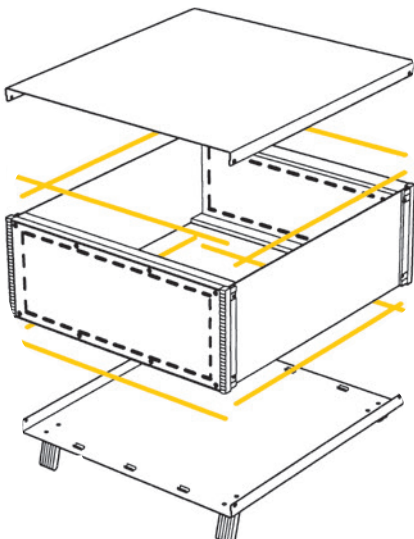
Depth		Scope of Delivery	Part-No.
mm	inch		
245	9.64	4 self-adhesive HF gaskets L = 195 mm	63-836-10
305	12.00	4 self-adhesive HF gaskets L = 255 mm	63-836-11
395	15.55	4 self-adhesive HF gaskets L = 345 mm	63K836-04

### Gasket Set for Rear Panel

Length		Scope of Delivery	Part-No.
mm	inch		
430	16.92	2 pieces	63-836-80

## 2.5.5.3 Gaskets for Superior EMC level (Stylebox 15 Standard)

- Vertical and horizontal gaskets for cover plates (overall)
- To achieve superior EMC level with Stylebox 15 Standard
- Order 1 set each for width and depth
- Drawing shows the position of the gaskets



### Width Gaskets for Covers

Width	Scope of Delivery	Part-No.
42 HP	4 self-adhesive HF gaskets L = 216.5 mm	63-836-20
63 HP	4 self-adhesive HF gaskets L = 323 mm	63-836-21
84 HP	4 self-adhesive HF gaskets L = 430 mm	63-836-23

### Depth Gaskets for Covers

Depth		Scope of Delivery	Part-No.
mm	inch		
245	9.64	4 self-adhesive HF gaskets L = 195 mm	63-836-10
305	12.00	4 self-adhesive HF gaskets L = 255 mm	63-836-11
395	15.55	4 self-adhesive HF gaskets L = 345 mm	63K836-04
500	19.68	4 self-adhesive HF gaskets L = 445 mm	63K836-05

## 2: Stylebox 15

### 2.5.5.4 EMC Contact Strips (Advanced EMC-level)

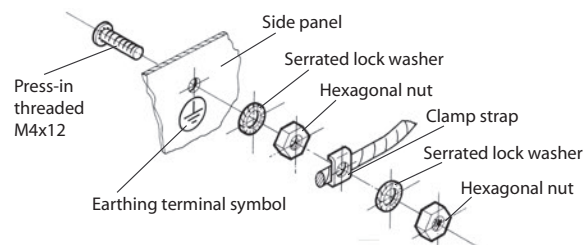
- 2 contact strips
- For front panels, fixing on extrusion
- Self-adhesive



For HP	Length	Part-No.
42	212.1 mm	63-836-67
63	318.1 mm	63-836-68
84	424.2 mm	63-836-70

### 2.5.6 Earthing Set

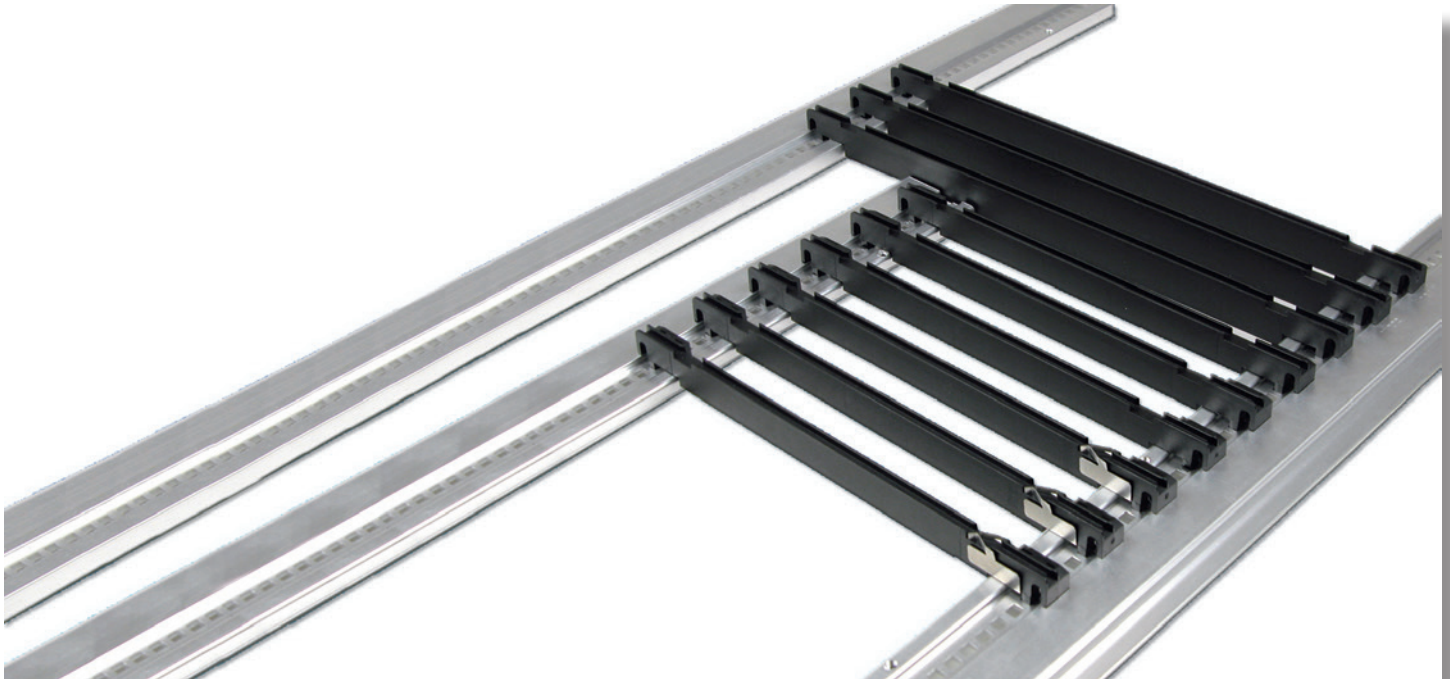
- Enables cases to be earthed in conformance with EN / VDE / SEV
- **Scope of delivery:**
  - 1 press-in threaded bolt M4
  - 2 serrated lock washers
  - 2 hexagonal nuts M4
  - 1 terminal clamp
  - 1 earthing symbol



### 2.5.9 Earthing Set

Description	Part-No.
Earthing set according to EN VDE / SEV	63-174

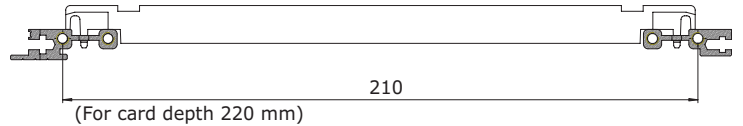
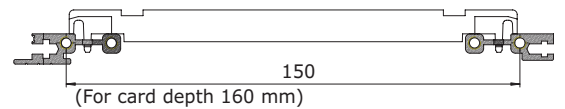
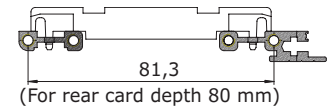
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## 2.6 General Accessories

### 2.6.1 Card Guides IEC

- For positive location of PCBs and plug-in units conforming to the dimensions of card depths of 80 mm, 160 mm, 220 mm and 280 mm
- The card guides are non-flammable, made from a high quality plastic material reinforced with fibreglass
- Including ESD provisions



#### 2.6.1.1 Card Guides 1-Slot, IEC

- **Scope of delivery:**
  - Card guide black plastic UL94 V-0
  - ESD Clip see below (not usable for card depth 80 mm)

Card Thickness		Card Depth		Part-No.	Part-No.	Part-No.
mm	inch	mm	inch	10 pcs.	100 pcs.	
1.6	0.06	80	3.15	63-319	63-322	-
		160	6.30	63-028	63-029	63-478
		220	8.66	63-103	63-104	63-479
		280	11.02	63-323	63-324	61-017-3
2.0	0.08	160	6.30	63-328	63-329	-
		220	8.66	63-303	63-304	-
		280	11.02	63-445	63-446	-

#### ESD Clips

- Connecting PCB with case
- Stainless steel

Description	Part-No. 10 pcs.	Part-No. 100 pcs.
ESD clip front bottom/rear top	63-863	63-864
ESD clip front top/rear bottom	63-865	63-866



## 2.6.1.2 Card Guides 7-Slot in 4 HP Steps

- For reduced assembly time of multiple slot applications
- For use with single, double and triple eurocards with a depth of 160 mm
- For card thickness: 1.6 mm / 0.06"
- Black plastic, UL94 V-0
- ESD Clip not usable



Card Thickness		Card Depth		Part-No.
mm	inch	mm	inch	
1.6	0.06	160	6.30	61-076

## 2.6.1.3 Card Guides 1-Slot, 3 Parts

- Extrusion: Aluminium / Plastic ABS, (UL 94 V-O)
- End feet: plastic, UL94 HB
- For card thickness: 1.6 mm / 0.06"
- Card guide extrusion, single, clear anodised or plastic grey
- ESD clip not usable



### Extrusion

Card Depth		Length		Part-No. Plastic	Part-No. Aluminium
mm	inch	mm	inch		
160	6.30	112.5	4.43	61-051	66-122-20
220	8.66	172.5	6.79	61-052	66-122-21
280	11.02	232.5	9.15	61-053*	66-122-22
340	13.38	292.5	11.51	61-054*	66-122-23
400	15.74	352.5	13.87	61-055*	66-122-24
-	-	1350	53.15	61-059	66-122-14

### End Feet

Description	Part-No. 1 Pair
End feet plastic, UL94 HB	61-069

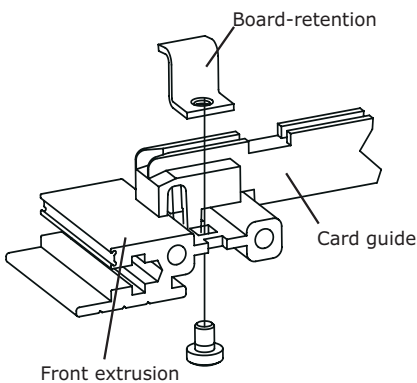
\* Card guides must be supported in the middle by an additional extrusion (66-138)

## 2.6.1.4 Card Guide Board-Retention Bar

Description	Part-No.
Board-retention bar, zinc-plated steel	20 pcs. 61-291

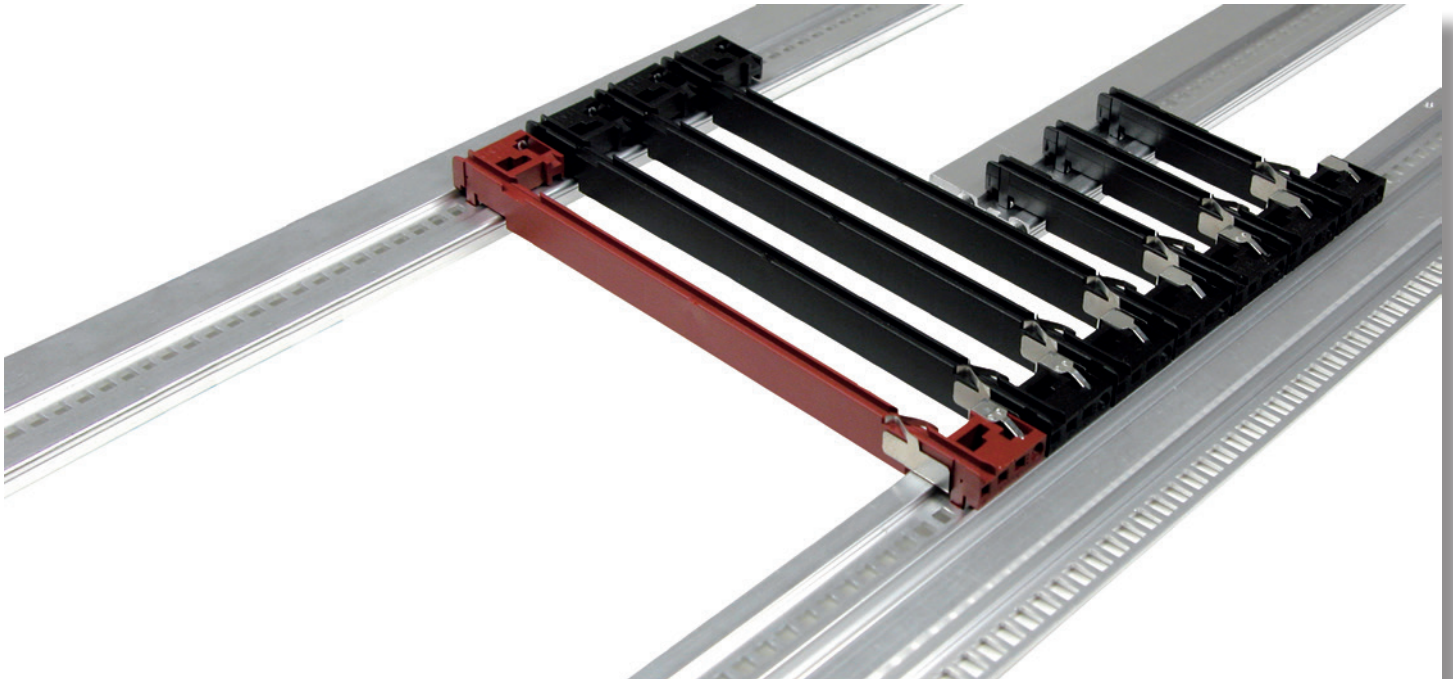
### Assembly Material

Description	Part-No.
Cross recessed rounded head screw M3 x 4	5331-04
Torx cylinder head screw M3 x 4, size T10	5470-01



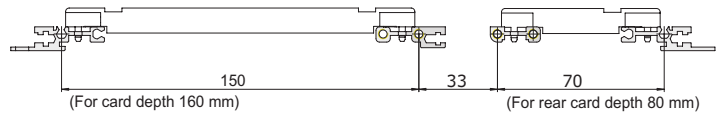


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## 2.6.2 Card Guides Standard acc. to IEEE

- For positive location of PCBs and plug-in units conforming to the dimensions of card depths 80 mm, 160 mm, 220 mm, 280 mm and 340 mm
- The card guides are nonflammable, made from a high quality plastic material reinforced with fibreglass (UL94 V-0)
- With ESD provisions
- With keying and alignment pin possibilities



### 2.6.2.1 Card Guides 1-Slot

- Card thickness 1.6 mm / 0.06" and 2.0 mm / 0.08"
- Plastic UL94 V-0

Card Depth		Colour	Part-No. 1 Pair
mm	inch		
80	3.15	black	61-949-01

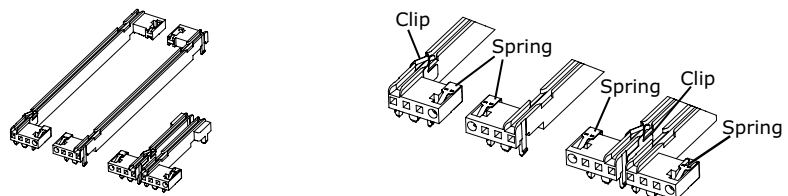
Card Depth		Colour	Part-No.
mm	inch		
160	6.30	black	61-950-01
160	6.30	red	61-950-03

### 2.6.2.2 Card Guides 1-Slot, incl. mounted ESD-Components

- Bottom: 1 ESD clip and 1 ESD spring
- Top: 1 ESD spring
- Black plastic UL94 V-0

Card Depth		Description	Part-No. 1 Pair
mm	inch		
80	3.15	1 pair top/bottom	61-949-02

Card Depth		Description	Part-No.
mm	inch		
160	6.30	1 piece bottom	61-950-02
160	6.30	1 piece top	61-950-04





### 2.6.2.3.1 Aluminium Card Guides 1-Slot, 3 Parts, 1.6 mm

- Extrusion: Aluminium
- End feet: Plastic UL94 V-0
- For card thickness 1.6 mm / 0.06" and 2.0 mm / 0.08"

#### Extrusion

Card Depth		Part-No.
mm	inch	
160	6.30	66-452-20
220	8.66	66-452-25
280	11.02	66-452-30
340	13.38	66-452-35

#### End Feet

Colour	Part-No. 1 Pair
Black	61-955-01
Red	61-955-03

#### End Feet Offset

Colour	Part-No. 1 Pair
Pearlwhite	61-961-01



### 2.6.2.3.2 Aluminium Card Guides 1-Slot, 3 Parts, 2.4 mm

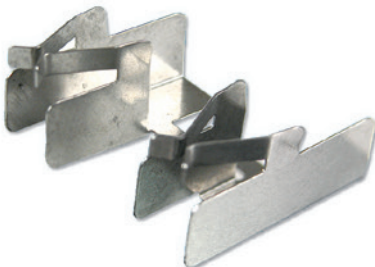
- Extrusion: Aluminium
- End feet: Plastic UL94 V-0
- For card thickness 2.4 mm / 0.094"

#### Extrusion

Card Depth		Part-No.
mm	inch	
160	6.30	66-453-20
220	8.66	66-453-25
280	11.02	66-453-30
340	13.38	66-453-35

#### End Feet

Colour	Part-No. 1 Pair
Black	61-956-01



### 2.6.2.4 ESD Clips

- Connecting printed board with case

Description	Part-No.
ESD clip front bottom/rear top	61-419-01
ESD clip front top/rear bottom	61-419-02



### 2.6.2.5 ESD Spring

- Connecting ESD pin with case
- Note: Notch inward-looking

Description	Part-No.
ESD spring	61-420

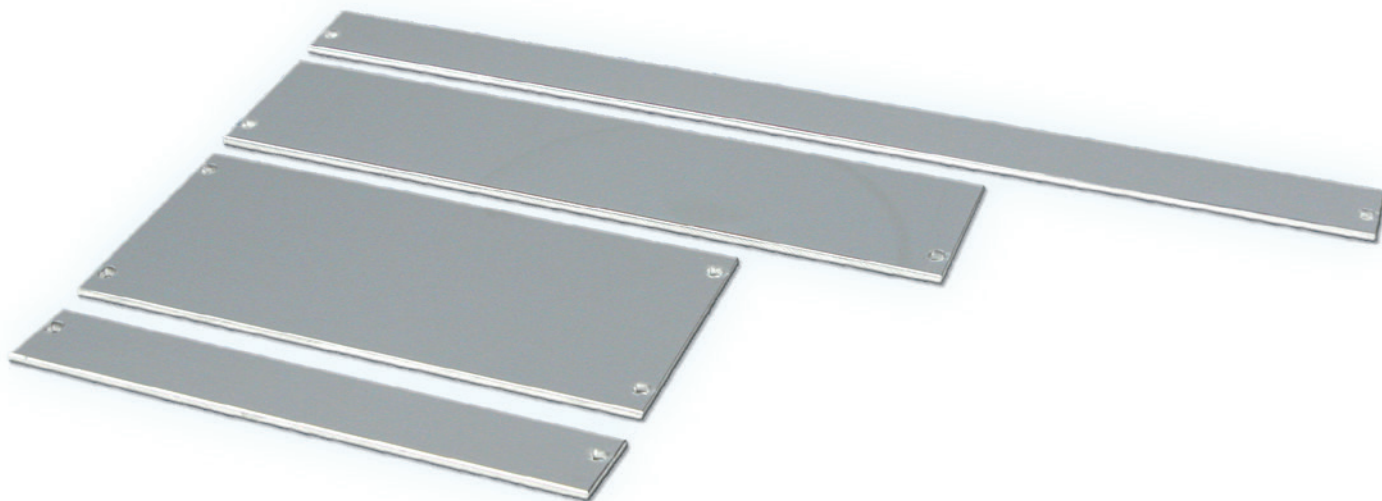


### 2.6.2.6 Coding Pins

- Acc. to IEC 60297-3-103
- Plastic, UL94 V-0
- Can be rotated in 4 positions

Colour	Part-No.
Grey	81-054-02
Dark red	81-054-06
Black	81-054-04

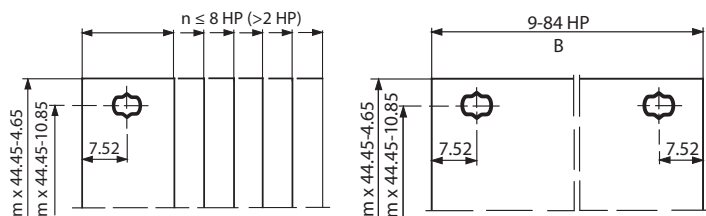




## 2.7 Front Panels

### 2.7.1 Flat Front Panels

- For sub racks and enclosures, solid
- Aluminium 2.5 mm, clear anodised (non-conductive)
- **Scope of delivery:**
  - Flat front panel
- Front panel screws, see below
- 2 HP version: screw retainer can not be fitted



### 2.7.1 Flat Front Panels for Sub Racks and Enclosures, Solid

Width	B		Height		Part-No.			
	mm	inch	1 U 39.8 mm	ca. 1 U* 42.15 mm	2 U 84.2 mm	3 U 128.7 mm	4 U 173.1 mm	6 U 262.0 mm
2 HP	10.0	0.39	—	—	—	21N302	—	21N602
3 HP	15.2	0.59	—	—	—	21N303	21N403	21N603
4 HP	20.1	0.79	—	—	—	21N304	21N404	21N604
5 HP	25.2	0.99	—	—	—	21N305	21N405	21N605
6 HP	30.3	1.19	—	—	—	21N306	21N406	21N606
7 HP	35.3	1.38	—	—	—	21N307	21N407	21N607
8 HP	40.4	1.59	—	—	—	21N308	21N408	21N608
10 HP	50.6	1.99	—	—	—	21N310	21N410	21N610
11 HP	55.7	2.19	—	—	—	21N311	—	—
12 HP	60.7	2.38	—	—	—	21N312	21N412	21N612
14 HP	70.9	2.79	—	—	—	21N314	21N414	21N614
16 HP	81.1	3.19	—	—	—	21N316	21N416	21N616
20 HP	101.4	3.59	—	—	—	21N320	21N420	21N620
21 HP	106.5	4.19	—	—	—	21N321	—	21N621
28 HP	142.0	5.59	—	—	—	21N328	—	21N628
32 HP	162.3	6.38	—	—	—	21N332	21N432	—
42 HP	213.1	8.38	—	—	21N242	21N342	21N442	21N642
52 HP	263.9	10.38	—	—	—	21N352	21N452	21N652
63 HP	319.8	12.59	—	—	21N263	21N363	21N463	21N663
81 HP	411.3	16.19	—	—	21N281	21N381	21N481	21N681
84 HP	426.5	16.79	21N184	21N084*	21N284	21N384	21N484	21N684

\* Coverplates for 1 U fan opening

### Front Panel Screws

- Set of 10 screws, with screw retainer

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3, size T8 with plastic screw retainer	63K159
Rounded head screws recessed M2.5 x 11.3 with plastic screw retainer	63-159

# 2: Stylebox 15

## 2.7.2 EMC Flat Front Panels

### 2.7.2.1 EMC Filler Panel with EMC Gasket

- High stability (U-profile)
- Extruded aluminium
- Pressed-in centring pin and bushes M2.5
- Front side clear anodised, rear side conductive
- **Scope of delivery:**
  - EMC front panel incl. pressed-in centering pin and bushes M2.5
- EMC-gasket see below
- Front panel screw see below



#### 2.7.2.1 EMC Front Panel

Width	Part-No. 3 U	Part-No. 4 U	Part-No. 6 U
4 HP	66-514-73	66-514-74	66-514-76
5 HP	66-515-73	-	66-515-76
6 HP	66-516-73	66-516-74	66-516-76
8 HP	66-518-73	66-518-74	66-518-76
9 HP	66-519-73	-	66-519-76
10 HP	66-520-73	-	66-520-76
12 HP	66-522-73	-	66-522-76
14 HP	66-534-73	-	66-534-76

#### EMC Gasket (Stainless Steel)

Height	Part-No. 1 pc.
3 U	81-062-03
4 U	81-062-04
6 U	81-062-06

#### Front Panel Screws

- Front panel width up to 9 HP = 2 screws; ≥ 10 HP = 4 screws

Description	Part-No.
Torx screw, M2.5 x 11.3, size T8	5443-08
Round head screw, cross recessed M2.5 x 12.7	61-287

### 2.7.2.2 EMC Filler Panel without EMC-Gasket

- Front panel standard, solid
- Front clear anodised
- Rear conductive
- Basic level EMC
- **Scope of delivery:**
  - 1 front panel incl. press-fit bushes M2.5 (pressed-in)
- Front panel screws, see below
- Spacer see next page



#### 2.7.2.2 EMC Filler Panel without Gasket

Width	Part-No. 3 U	Part-No. 4 U	Part-No. 6 U
4 HP	21B304	-	-
10 HP	21B310	-	-
12 HP	21B312	-	-
16 HP	21B316	21B416	-
21 HP	21B321	21B421	-
42 HP	21B342	21B442	21B642
63 HP	21B363	21B463	-
84 HP	21B384	21B484	21B684

#### Front Panel Screws

- Front panel width up to 8 HP = 2 screws; ≥ 9 HP = 4 screws

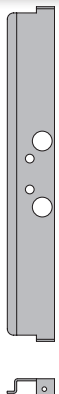
Description	Part-No.
Torx screw, M2.5 x 11.3, size T8	5443-08
Rounded head screw, cross recessed M2.5 x 12.7	61-287

# 2: Stylebox 15

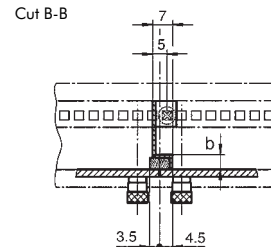
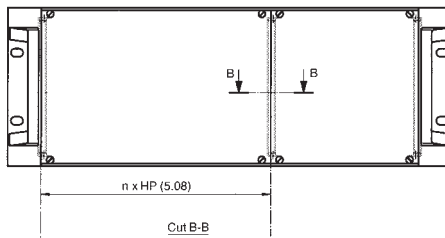
## Spacer for EMC Front Panel Flat

- EMC-Level: Advanced
- **Scope of delivery:**
  - 1 spacer incl. gasket
  - 2 Torx sheet metal screws 2.9 x 6.5; size T 10

Height	Part-No.
3 U	81K023
4 U	81K024
7 U	81K027

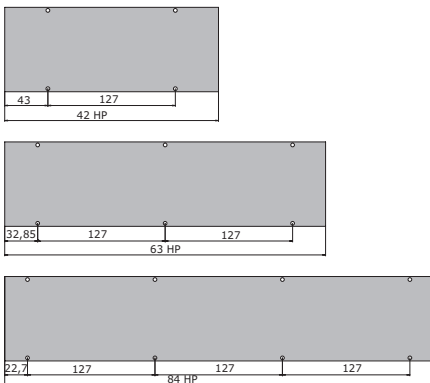


Holes in some cases needed for mounting telescopic rails



### 2.7.2.3 EMC Flat Front Panels

- Aluminium 2.5 mm (conductive)
- Closes the front or rear of the sub rack with very high shielding effectiveness
- Contact between the flat front panel and the case is made via EMC gaskets



### 2.7.2.3 EMC Flat Front Panels for Advanced EMC Level

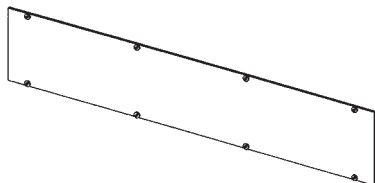
- **Scope of delivery:**
  - EMC flat front panel
  - Contact angle, incl. screws (4 + 6 U version only)
  - EMC gasket for contact angle (4 + 6 U version only)
- Front panel screws see below
  - Front panel width 42 HP = 4 screws
  - Front panel width 63 HP = 6 screws
  - Front panel width 84 HP = 8 screws

Width	Part-No. 1 U	Part-No. 2 U	Part-No. 3 U	Part-No. 4 U	Part-No. 6 U
42 HP	-	-	21C342	-	-
63 HP	-	21C263	21C363	21C463	-
84 HP	21C184	21C284	21C384	21C484	21C684

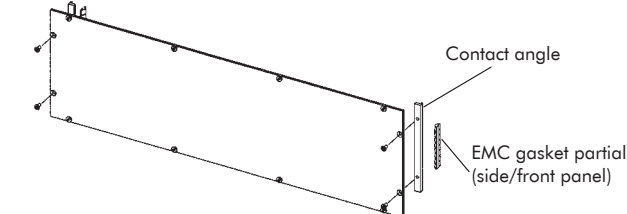
### Front Panel Screws

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3, size T8, with press-fit bush	63K480
Screw recessed M2.5 x 11.3, with press-fit bush	63-444
Screw cross recessed M2.5 x 12.7, with press-fit bush	63-480

#### 1 U - 3 U



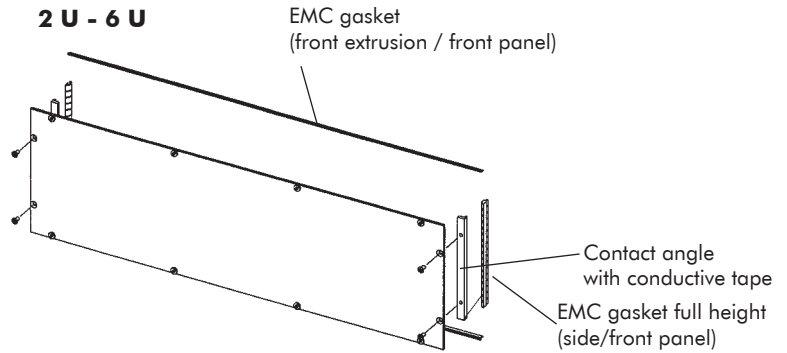
#### 4 U - 6 U



# 2: Stylebox 15

## 2.7.2.4 EMC Flat Front Panels for Superior EMC Level

- **Scope of delivery:**
  - EMC flat front panel
  - Contact angle, incl. screws
  - EMC gasket for contact angle
  - EMC gasket for front extrusion/front panel
- Front panel screws, see below
  - Front panel width 42 HP = 4 screws
  - Front panel width 63 HP = 6 screws
  - Front panel width 84 HP = 8 screws



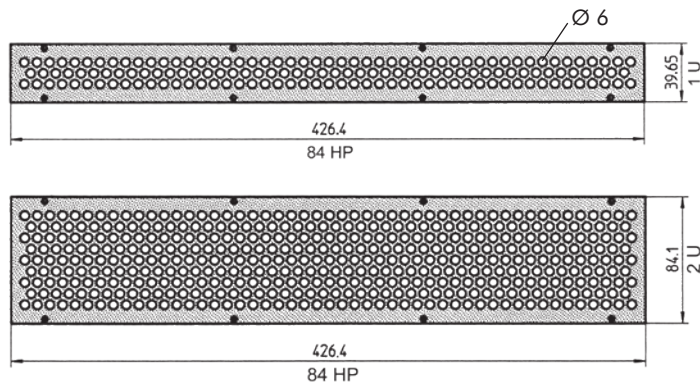
Width	Part-No. 2 U	Part-No. 3 U	Part-No. 4 U	Part-No. 6 U
84 HP	21D284	21D384	21D484	21D684

### Front Panel Screws

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3, size T8, with press-fit bush	63K480
Screw recessed M2.5 x 11.3, with press-fit bush	63-444
Screw cross recessed M2.5 x 12.7, with press-fit bush	63-480

## 2.7.2.5 Perforated EMC Front Panel 84 HP

- Front anodised, rear conductive
- Advanced EMC level
- Width: 84 HP
- **Scope of delivery:**
  - Perforated flat front panel
- Front panel screws see below
- On-off switch see below



### 2.7.2.5 Perforated EMC Front Panel 84 HP

	Height		Air Passage	Switch Opening Part-No. without
1 U	39.65 mm	1.56"	4'100 mm <sup>2</sup>	21C184-01
2 U	84.1 mm	3.31"	12'300/11'700 mm <sup>2</sup>	21C284-01

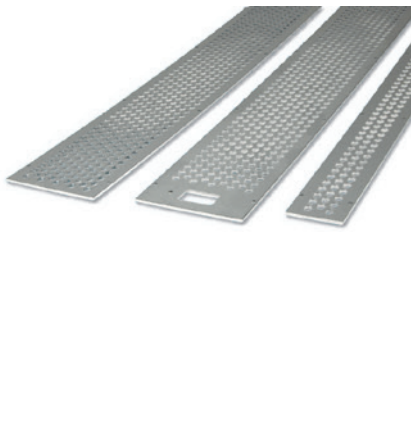
### Front Panel Screws

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3, size T8, with press-fit bush	63K480
Screws recessed M2.5 x 11.3, with press-fit bush	63-444
Screws cross recessed M2.5 x 12.7, with press-fit bush	63-480

### On-Off Switch

- Black body, plastic
- 2 pole
- 250V, 16A
- Quick-connect terminal 6.3 x 0.8 mm
- Cut-out: 12.3 x 27.2 mm (0.48" x 1.07")

Description	Part-No.
On-off switch, indicator light green	69-410-04
On-off switch, without signal light	69-410-09

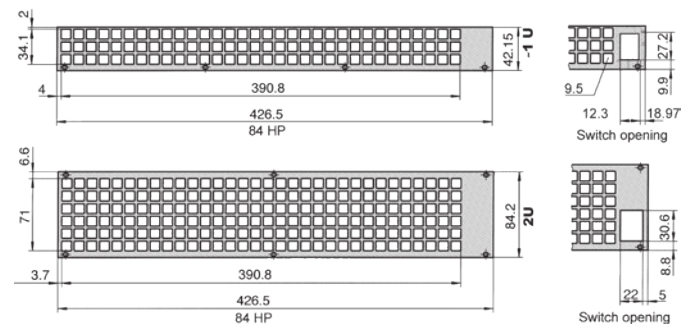




## 2.7.3 Fan Front Panels

### 2.7.3.1 Fan Front Panel 84 HP for Vertical Ventilation

- Fan front panels are flat, perforated and designed to ensure an optimum air flow rate
- Available with or without switch cut-out (switch opening 22 x 30.6 mm)
- Aluminium 2.5 mm, clear anodised (non-conductive)
- **Scope of delivery:**
  - 1 perforated fan front panel
- Front panel screws see below
- On-off switch see below



### 2.7.3.1 Fan Front Panel 84 HP for Vertical Ventilation

Description	Height	Air passage		Part-No.
		mm <sup>2</sup>	sq. inch	
Without switch opening	~ 1 U	8664	13.42	21N084-01
With switch opening	~ 1 U	8664	13.42	21N084-02
Without switch opening	2 U	17328	26.85	21N284-01
With switch opening	2 U	17328	26.85	21N284-02



### Front Panel Screws

- Set of 10 screws
- With screw retainer
- Fan front panel ~1 U = 4 screws; 2 U = 6 screws

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3 , size T8, with plastic screw retainer	63K159
Rounded head screws recessed M2.5 x 11.3, with plastic screw retainer	63-159

### On-Off Switch

- Black body, plastic
- 2 pole
- 250V, 16A
- Quick-connect terminal 6.3 x 0.8 mm
- Cut-out for 4426-00: 22 x 30.6 mm (0.87" x 1.20")
- Cut-out others: 12.3 x 27.2 mm (0.48 x 1.07")



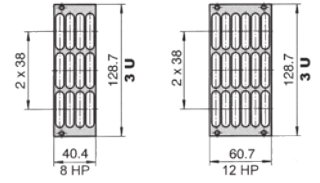
Description	Part-No.
On-off switch, indicator light green	69-410-04
On-off switch, without signal light	69-410-09



# 2: Stylebox 15

## 2.7.3.2 Fan Front Panel for Horizontal Ventilation

- Aluminium 2.5 mm, clear anodised (non-conductive)
- Scope of delivery:**
  - 1 perforated fan front panel
- Front panel screws see below



### 2.7.3.2 Fan Front Panel for Horizontal Ventilation

Height	Width	Air passage		Part-No.
		mm <sup>2</sup>	sq. inch	
3 U	8 HP	3195	4.95	21N308-01
	12 HP	4793	7.42	21N312-01

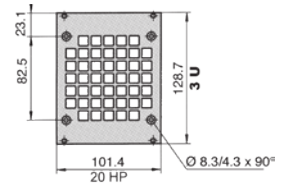
#### Front Panel Screws

- Set of 10 screws
- With screw retainer
- Fan front panel width up to 8 HP = 2 screws; ≥ 12 HP = 4 screws

Description	Part-No.
Torx screws M2.5 x 11.3 , size T8, with plastic screw retainer	63K159
Rounded head screws recessed M2.5 x 11.3, with plastic screw retainer	63-159

## 2.7.3.3 Fan Front Panels for Direct Fan Mounting

- Aluminium 2.5 mm, clear anodised (non-conductive)
- Scope of delivery:**
  - 1 perforated fan front panel
- Front panel screws see below
- Assembly material for fan mounting has to be ordered separately



### 2.7.3.3 Fan Front Panels for Direct Fan Mounting

Description	Height	Width	Air passage		Part-No.
			mm <sup>2</sup>	sq. inch	
Without switch opening	3 U	20 HP	4051	6.27	21N320-04

#### Front Panel Screws

- Set of 10 screws
- With screw retainer
- Per front panel 4 screws are needed

Description	Part-No.
Torx screws M2.5 x 11.3 , size T8, with plastic screw retainer	63K159
Milled edge screws recessed M2.5 x 11.3, with plastic screw retainer	63-159

#### Assembly Material for Fan Mounting

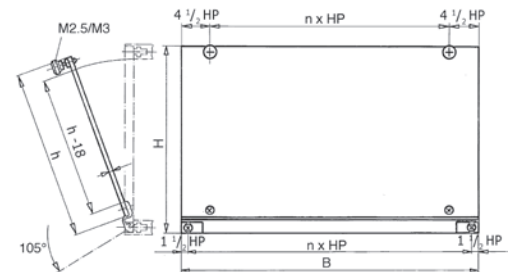
Description	Part-No.
Countersunk screw, recessed M4 x 10	5342-10
Hexagonal nut M4, 0.8D	5620-51



## 2.7.4 Hinged Front Panels

### 2.7.4.1 Top / Bottom-Hinged Front Panel

- Hinges are attached to the front extrusions of the sub rack or case
- Aluminium 2.5 mm, clear anodised (non-conductive)
- **Scope of delivery:**
  - Front panel
  - Hinge extrusion
  - Assembly material M2.5, incl. hinges



### 2.7.4.1 Top/Bottom-Hinged Front Panel

Width	Part-No. 3 U	Part-No. 4 U	Part-No. 6 U
84 HP	25N384-19	25N484-19	25N684-19

### Dimensions

HP	Nominal Width		Width B	
	mm	inch	mm	inch
84 HP	426.72	16.80	426.5	16.79

U	Height H		Height h	
	mm	inch	mm	inch
3 U	128.7	5.07	117	4.61
4 U	173.15	6.81	161.4	6.35
6 U	262.05	10.31	250.3	9.85

# 2: Stylebox 15

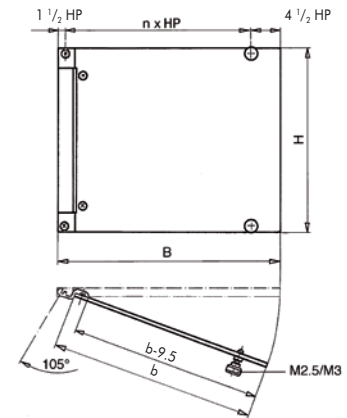
## 2.7.4.2 EMC Top / Bottom-Hinged Front Panel

- Width: 84 HP
- Offers optimum protection from electromagnetic interference
- Aluminium 2.5 mm, front anodised, rear conductive
- **Scope of delivery:**
  - EMC front panel
  - Hinge extrusions
  - Assembly material M2.5, incl. hinges
  - EMC gaskets



## 2.6.4.2 EMC Top / Bottom-Hinged Front Panel

EMC Level	Part-No. 3 U	Part-No. 6 U
Advanced	25C384-11	-
Superior	-	25D684-11



## 2.7.4.3 Side-Hinged Front Panel

- Aluminium 2.5 mm, clear anodised (non-conductive)
- **Scope of delivery:**
  - Front panel
  - Hinge extrusion
  - Assembly material M2.5, incl. hinges



## 2.7.4.3 Side-Hinged Front Panel

Width	Part-No. 3 U	Part-No. 6 U
84 HP	25N384-29	25N684-29

Other widths and heights available on request.

### Dimensions

HP	Nominal Width		Width B		Width b	
	mm	inch	mm	inch	mm	inch
84 HP	426.72	16.80	426.5	16.79	414.3	16.31

Nominal Height		Height H	
U	mm	inch	
3 U	128.7	5.06	
6 U	262.05	10.31	

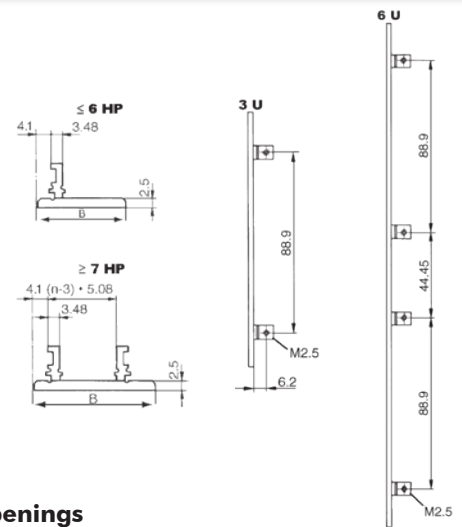
Use Elma's front panel service for machining and screen printing of your panels see chapter 6!



## 2.7.5 Plug-In Units acc. to IEC

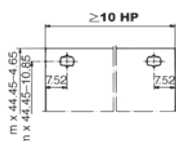
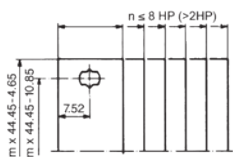
### 2.7.5.1 Extruded Front Panel

- Aluminium 2.5 mm, clear anodised (non-conductive)
- PCB mounting lugs are formed on the rear face of the panel
- No PCB fixing screws on the front face of the panel, leaving more space for silk screening and mounting front panel components
- Suitable for all sub racks and cases
- Thickness of the mounting lugs (3.48 mm) allows PCBs to be mounted on either side of the lugs
- Drill marks at rear for handle-fixing holes
- **Scope of delivery:**
  - Extruded front panel, clear anodised
  - Front panel screws see below



### 2.7.5.1 Extruded Front Panels, without Openings

Width	B		Part-No. 3 U	Part-No. 6 U
	mm	inch		
3 HP	15.0	0.59	26N303	26N603
4 HP	20.1	0.79	26N304	26N604
5 HP	25.2	0.99	26N305	26N605
6 HP	30.3	1.19	26N306	26N606
7 HP	35.3	1.38	26N307	26N607
8 HP	40.4	1.59	26N308	26N608
10 HP	50.6	1.99	26N310	26N610
12 HP	60.7	2.38	26N312	26N612
14 HP	70.9	2.79	26N314	26N614
16 HP	81.1	3.19	26N316	26N616
21 HP	106.5	4.19	26N321	



### Front Panel Screws

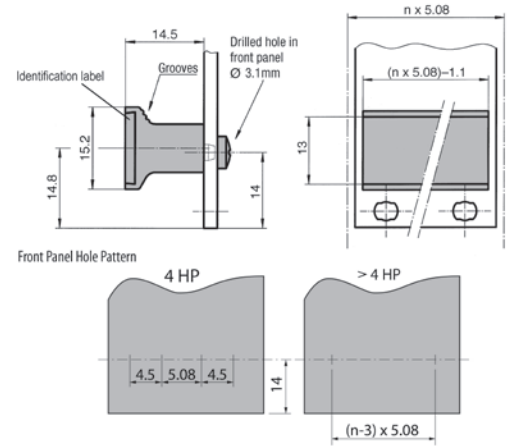
- Set of 10 screws
- With screw retainer
- Front panel width up to 9 HP = 2 screws; ≥ 10 HP = 4 screws

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3 , size T8 , with plastic screw retainer	63K159
Rounded head screws recessed M2.5 x 11.3 , with plastic screw retainer	63-159

# 2: Stylebox 15

## Rigid-Mounted Unit Handles with Identification Label

- Black, plastic UL94 V-0, label aluminium anodised
- **Scope of delivery:**
  - Rigid-mounted handle
  - Identification label
- Assembly material see below



## Rigid-Mounted Handle with Identification Label

Width	Scope of Delivery	Part-No.
4 HP	10 pcs.	60-200-04
5 HP	10 pcs.	60-200-05
6 HP	10 pcs.	60-200-06
7 HP	10 pcs.	60-200-07
8 HP	10 pcs.	60-200-08
10 HP	10 pcs.	60-200-10
12 HP	10 pcs.	60-200-12
14 HP	1 pc.	60-200-14

- Other sizes (up to 84 HP) are available upon request

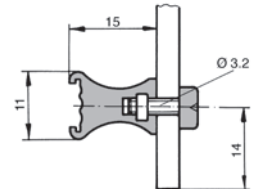
## Assembly Material

Description	Part-No.
Cross recessed round head screw	61-276



## Fluted Handles

- Extruded aluminium handles, shaped to facilitate withdrawal of plug-in units
- Two grooves in the front face will accept identification strips (0.5 x 9 mm)
- **Scope of delivery:**
  - Extruded handle, clear anodised
  - Assembly material



## Fluted Handles for Front Panels to IEC

Front Panel Width HP	Width		Handle Length		Part-No.
	mm	inch	mm	inch	
3 HP	15.0	0.59	12.5	0.49	60-103
4 HP	20.1	0.79	17.6	0.69	60-104
5 HP	25.2	0.99	22.6	0.88	60-105
6 HP	30.3	1.19	27.7	1.09	60-106
7 HP	35.3	1.38	33.5	1.31	60-107
8 HP	40.4	1.59	37.9	1.49	60-108
10 HP	50.6	1.99	48.0	1.88	60-110
12 HP	60.8	2.39	58.2	2.29	60-112
14 HP	70.9	2.79	69.1	2.72	60-114
16 HP	81.1	3.19	78.5	3.09	60-116
21 HP	106.5	4.18	104.6	4.11	60-121
30 HP	152.2	5.99	149.6	5.88	60-130
40 HP	203.0	7.99	200.4	7.88	60-140
60 HP	304.6	11.99	302.0	11.88	60-160
84 HP	426.5	16.79	424.0	16.69	60-184

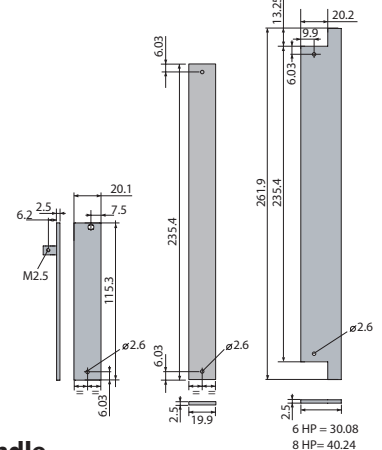




# 2: Stylebox 15

## 2.7.5.2 Front Panel with Cutout for IEC Ejector Handle

- Aluminium 2.5 mm, clear anodised (non-conductive)
- PCB mounting lugs are formed on the rear face of the panel (3 U-Version only)
- No PCB fixing screws on the front face of the panel, leaving more space for silk screening and mounting front panel components
- Suitable for all sub racks and cases
- 3 U front panels prepared for one handle
- 6 U front panels prepared for two handles
- **Scope of delivery:**
  - Front panel, clear anodised
- Front panel screws see 2.1.2.1 (for 3 U-Version only)
- IEC ejector handles, see 2.1.2.2



### 2.7.5.2 Front Panel with Cutout for IEC Ejector Handle

Width	B		Part-No. 3 U	Part-No. 6 U
	mm	inch		
4 HP	20.0	0.79	26N304-51	21N604-51
6 HP	30.2	1.19		21N606-51
8 HP	40.3	1.59		21N608-51

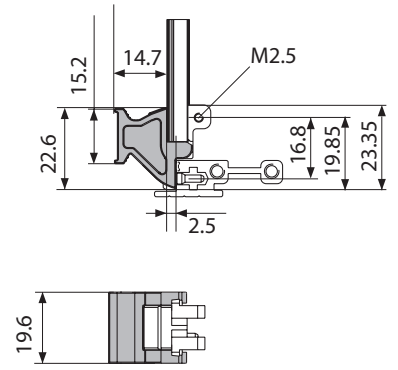
### Front Panel Screws (for 3 U-Version only)

- Set of 10 screws
- With screw retainer
- Front panel 3 U = 1 screw

Description	Part-No. 10 pcs.
Torx screws M2.5 x 11.3, size T8, with plastic screw retainer	63K159
Rounded head screws recessed M2.5 x 11.3, with plastic screw retainer	63-159

## 2.7.5.3 Ergonomic Ejector Handles acc. to IEC

- Simple assembly of plug-in units
- Allows trouble-free extraction of electronic units with multi-pole connectors
- Main features in one part: card holder, ejector handle and centring pin
- Reset spring for safe insertion
- One version for top and bottom only
- Handle is injection moulded, glass-reinforced plastic, UL94 V-0
- Card holder is zinc die-cast, nickel plated
- Reset spring is stainless steel
- **Scope of delivery:**
  - Ejector handle
  - Assembly material (cross recessed screws M2.5 for fixing of card holder/printed board/front panel)
- Front panel with special cutouts have to be ordered separately



### 2.7.5.3 Ejector Handle acc. to IEC

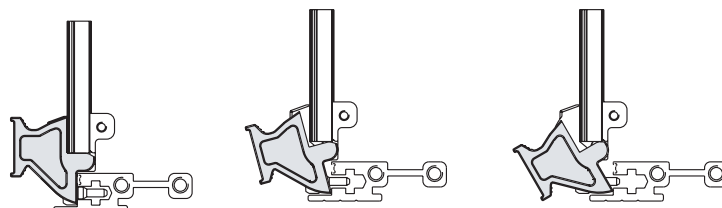
Description	Part-No.
Ejector handle black	81-233
Ejector handle grey	81-234

### Extraction process:

Rest position

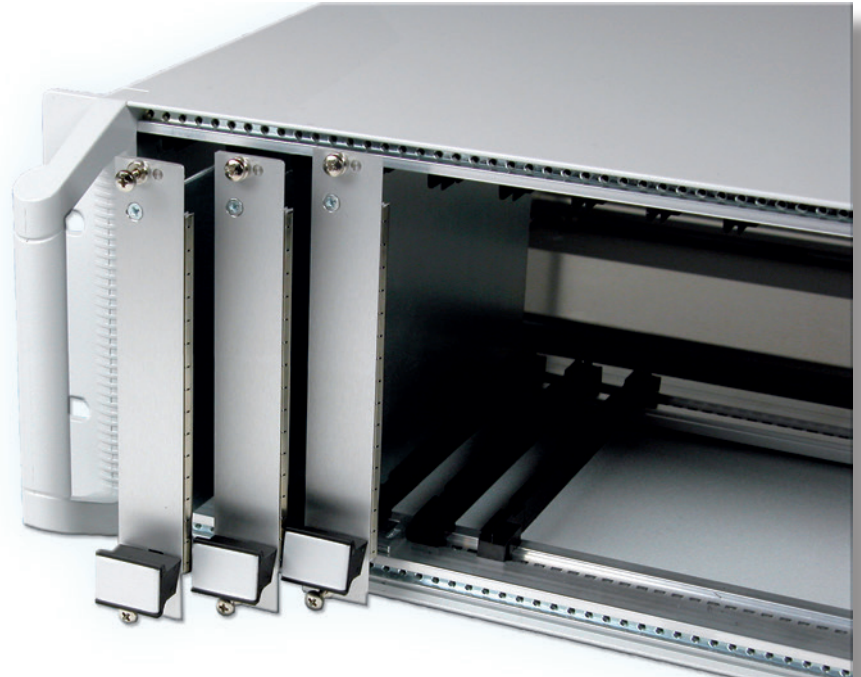
Extraction

End position



### Label

Description	Part-No.
1 sheet A4 of 220 labels	81-031



## 2.7.6 EMC Plug-In Units acc. to IEC

- Excellent EMC shielding
- Made of aluminium extrusions
- Rear side: conductive surface finish (clear passivated)
- Used in the assembly of plug-in units
- The EMC-gasket is integrated into the front panel profile to protect it from damage
- A pressfit centering pin guarantees optimum positioning of the panel as well as the right pressure between the contact strip and the next panel

### 2.7.6.1 EMC Filler Panel without Openings

- High stability
- Extruded aluminium
- Pressed-in centring pin and bushes M2.5
- Front side clear anodised, rear side conductive
- **Scope of delivery:**
  - EMC front panel, incl. pressed-in centering pin and bushes M2.5
- EMC-gasket see below
- Front panel screw see below
- Handles and card holders cannot be fitted with this type of front panel



Width	Part-No. 3 U	Part-No. 6 U
4 HP	66-514-73	66-514-76
6 HP	66-516-73	66-516-76
8 HP	66-518-73	66-518-76

### EMC Gasket (Stainless Steel)

Height	Part-No.
3 U	81-062-03
6 U	81-062-06

### Front Panel Screws

- Front panel width up to 8 HP = 2 screws

Description	Part-No.
Torx screw, M2.5 x 11.3, size T8	5443-08
Rounded head screw, cross recessed M2.5 x 12.7	61-287



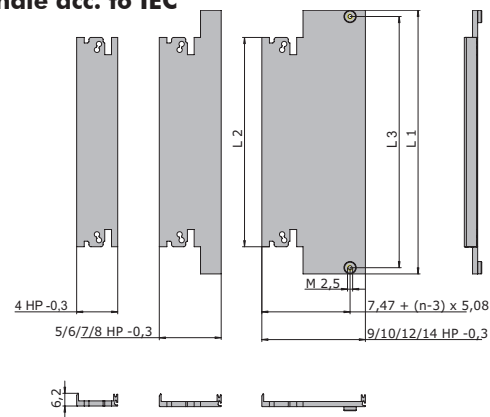
Use Elma's front panel service for machining and screen printing of your panels!

## 2: Stylebox 15

### 2.7.6.2 EMC Front Panels for IEC Plug-In Units with Cutout for Ejector Handle acc. to IEC

EMC Front Panels Aluminium with EMC Gasket

- Excellent EMC shielding
- Immune to snagging
- EMC-gasket slid onto the extrusion
- **Scope of delivery:**
  - EMC front panel, incl. pressed-in bushes M2.5 (size  $\geq 10$  HP)
- EMC-gasket see below
- Handle has to be ordered separately, see below
- Front panel screw (size  $\geq 10$  HP), see below



#### Front Anodised, Rear Conductive (2 cutouts)

- With 2 cutouts (bottom + top)

Width	Part-No. 3 U	Part-No. 6 U	Part-No. 9 U
4 HP	66-514-23	66-514-26	66-514-29
5 HP	66-515-23	66-515-26	-
6 HP	66-516-23	66-516-26	66-516-29
8 HP	66-518-23	66-518-26	66-518-29
10 HP	66-520-23	66-520-26	66-520-29
12 HP	66-522-23	66-522-26	-
14 HP	66-534-23	66-534-26	-

#### Front Anodised, Rear Conductive (1 cutout)

- With 1 cutout (bottom)
- Incl. pressed-in centring pin and bush M2.5 (top)
- Incl. cutout for mounting of card holder 61-156 (top) with screw 5322-08 (see 2.2.2.7)

Width	Part-No. 3 U
4 HP	66-514-43
5 HP	66-515-43
6 HP	66-516-43
8 HP	66-518-43
10 HP	66-520-43
12 HP	66-522-43
14 HP	66-534-43

#### Dimensions

Height	L1 mm	L1 inch	L2 mm	L2 inch	L3 mm	L3 inch
3 U	128.55	5.06	102.05	4.01	122.50	4.82
6 U	261.90	10.31	235.40	9.27	255.85	10.07
9 U	395.25	15.56	368.75	14.51	389.20	15.32

# 2: Stylebox 15

B

### EMC-Gasket (Stainless Steel)

Unit	Part-No. 3 U	Part-No. 6 U	Part-No. 9 U
1 pc.	81-062-03	81-062-06	81-062-09

### Front Panel Screw

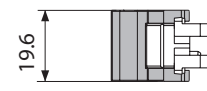
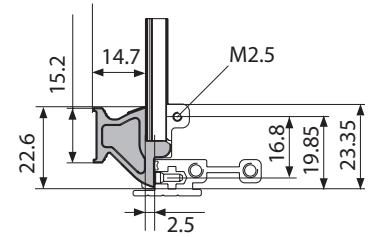
- For EMC front panels size  $\geq 9$  HP = 2 additional screws are needed

Description	Part-No.
Cross recessed rounded head screws M2.5 x 12.7	61-287
Torx screws M2.5 x 11.3, size T8	5443-08



### 2.7.6.3 Ergonomic Ejector Handles acc. to IEC

- Simple assembly of plug-in units
- Allows trouble-free extraction of electronic units with multi-pole connectors
- Main features in one part: card holder, ejector handle and centring pin
- Reset spring for safe insertion
- One version for top and bottom only
- Handle is injection moulded, glass-reinforced plastic, UL94 V-0
- Card holder is zinc die-cast, nickel plated
- Reset spring is stainless steel
- Scope of delivery:**
  - Ejector handle
  - Assembly material (cross recessed screws M2.5 for fixing of card holder/printed board/front panel)
- Front panel with special cutouts have to be ordered separately

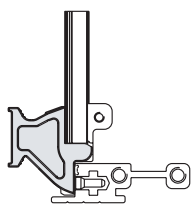


### 2.7.6.3 Ejector Handle acc. to IEC

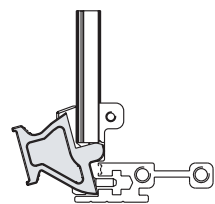
Description	Part-No.
Ejector handle black	81-233
Ejector handle grey	81-234

### Extraction process:

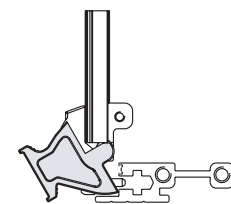
Rest position



Extraction



End position



### Label

Description	Part-No.
1 sheet A4 of 220 labels	81-031



## 2: Stylebox 15

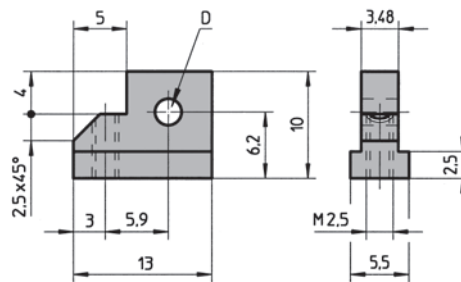
### 2.7.6.4 Card Holder acc. to IEC Standard

- By using the zinc die-cast card holder, flat front panels and EMC front panels acc. to IEC can be connected to a PC card to form a plug-in unit
- The card can be mounted both in the standard position and offset 1 HP (5.08 mm)
- **Scope of delivery:**
  - Card holder
- Assembly material see below



### 2.7.6.4 Card Holder without Swivel Stop

Description	Application	D	Part-No.
Card holder without swivel stop	Without injector / ejector handle	M2.5	61-156



### Assembly Material

Description	Application	Part-No.
Cross recessed countersunk screw M2.5 x 8	For card holder	5322-08
Torx countersunk screw M2.5 x 8, size T8	For card holder	5470-21
Slotted pan head screw M2.5 x 6	For printed board	5571-06
Torx cylinder head screw M2.5 x 6, size T8	For printed board	5470-04



### 2.7.6.5 Card Holder/End Piece without ESD Pin

- **Scope of delivery:**
  - End piece card holder (zinc die-cast, nickel plated)
  - Assembly material (screws M2.5 for fixing of front panel/card holder/printed board)



### 2.7.6.5 Card Holder/End Piece without ESD Pin

Description	Part-No.
Top	81-018-01
Bottom	81-019-01





## 2.7.7 Plug-In Units acc. to IEEE

### 2.7.7.1 EMC Front Panels Aluminium with EMC Gasket acc. IEEE

- Excellent EMC shielding
- Immune to snagging
- EMC-gasket slid onto the extrusion
- **Scope of delivery:**
  - EMC front panel, incl. press-in bushes M2.5 (size  $\geq$  10 HP)
- EMC-gasket see below
- Handle has to be ordered separately, see 2.7.7.5
- Front panel screw (size  $\geq$  10 HP), see below

#### 2.7.7.1 Front Anodised, Side Conductive (2 cutouts)

- With 2 cutouts (bottom + top)

Width	Part-No. 3 U	Part-No. 6 U
4 HP	66-514-23	66-514-26
5 HP	66-515-23	66-515-26
6 HP	66-516-23	66-516-26
7 HP	66-517-23	66-517-26
8 HP	66-518-23	66-518-26
9 HP	66-519-23	66-519-26
10 HP	66-520-23	66-520-26
12 HP	66-522-23	66-522-26
14 HP	66-534-23	66-534-26

#### 2.7.7.2 Front Anodised, Rear Conductive (1 cutout)

- With 1 cutout (bottom)
- Incl. pressed-in centring pin and bush M2.5 (top)
- Incl. cutout for mounting of card holder 61-156 (top) with screw 5322-08 (see 2.7.6.2)

Width	Part-No. 3 U
4 HP	66-514-43
5 HP	66-515-43
6 HP	66-516-43
8 HP	66-518-43
10 HP	66-520-43
12 HP	66-522-43
14 HP	66-534-43



## 2: Stylebox 15

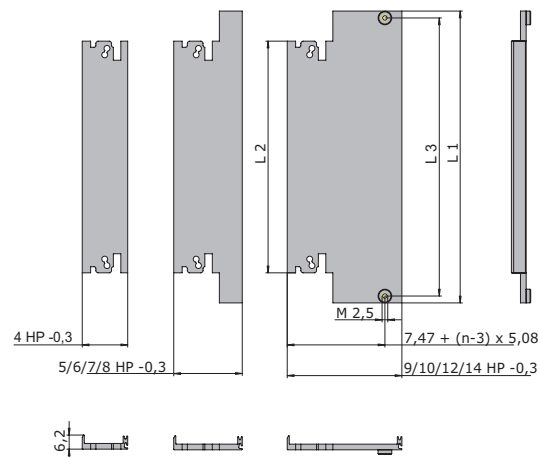
### 2.7.7.3 EMC-Gasket (Stainless Steel)

Unit	Part-No. 3 U	Part-No. 6 U
1 pc.	81-062-03	81-062-06

#### Front Panel Screw

- For EMC front panels size  $\geq 9$  HP = 2 additional screws are needed

Description	Part-No.
Cross recessed rounded head screws M2.5 x 12.7	61-287
Torx screws M2.5 x 11.3, size T8	5443-08



#### Dimensions

Height	L1 mm	L1 inch	L2 mm	L2 inch	L3 mm	L3 inch
3 U	128.55	5.06	102.05	4.01	122.50	4.82
6 U	261.90	10.31	235.40	9.27	255.85	10.07

## 2: Stylebox 15



### 2.7.7.5 Injector/Ejector Handles acc. to IEEE

Type			Mounting	ESD Pin	Colour	Part-No
Ergonomic			Bottom	With ESD-pin	Black	81-076
Ergonomic			Top	With ESD-pin	Black	81-075
Ergonomic			Bottom	Without ESD-pin	Black	81-076-01
Ergonomic			Top	Without ESD-pin	Black	81-075-01
Ergonomic	Hot Swap		Bottom	With ESD-pin	Black	81-096
Ergonomic	Hot Swap		Top	With ESD-pin	Black	81-095
Ergonomic	Hot Swap		Bottom	Without ESD-pin	Black	81-096-01
Ergonomic	Hot Swap		Top	Without ESD-pin	Black	81-095-01
Ergonomic	Hot Swap	Offset	Bottom	With ESD-pin	Black	81-185
Ergonomic	Hot Swap	Offset	Top	With ESD-pin	Black	81-184
Classic			Bottom	With ESD-pin	Black	81-261
Classic			Top	With ESD-pin	Black	81-260
Classic		Offset	Bottom	With ESD-pin	Black	81-161
Classic		Offset	Top	With ESD-pin	Black	81-160
Classic	Hot Swap		Bottom	With ESD-pin	Black	81-256
Classic	Hot Swap		Top	With ESD-pin	Black	81-255
Classic	Hot Swap	Offset	Bottom	With ESD-pin	Black	81-156
Classic	Hot Swap	Offset	Top	With ESD-pin	Black	81-155
Telecom	Hot Swap		Bottom	With ESD-pin	Black	81-206
Telecom	Hot Swap		Top	With ESD-pin	Black	81-205
Telecom	Hot Swap		Bottom	Without ESD-pin	Black	81-206-01
Telecom	Hot Swap		Top	Without ESD-pin	Black	81-205-01
Telecom	Hot Swap	Offset	Bottom	With ESD-pin	Black	81-189
Telecom	Hot Swap	Offset	Top	With ESD-pin	Black	81-188
Telecom long	Hot Swap		Bottom	With ESD-pin	Black	81-215
Telecom long	Hot Swap		Top	With ESD-pin	Black	81-214
Telecom long	Hot Swap	Offset	Bottom	With ESD-pin	Black	81-116
Telecom long	Hot Swap	Offset	Top	With ESD-pin	Black	81-117
Microswitch						81-088-1 (10 pcs.)

For more information refer to chapter C | "Handles"

## 2: Stylebox 15

### 2.7.7.6 Card Holder and Coding Pins acc. to IEEE

- **Scope of delivery:**

- End piece card holder (zinc die-cast, nickel plated)
- Assembly material  
(screws M2.5 for fixing of front panel/card holder/printed board)



#### Card Holder/End Piece with ESD Pin

Description	Part-No.
Top	81-018
Bottom	81-019



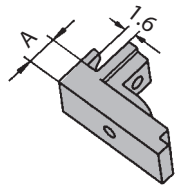
#### Card Holder/End Piece without ESD Pin

Description	Part-No.
Top	81-018-01
Bottom	81-019-01



#### Middle Part

- Usable for all front panels
- For positioning and fixing of 6 U and 9 U cards, card thickness 1.6 mm
- Material: Plastic UL94 V-0



Description	A		Part-No.
	mm	inch	
Aluminium 2.5 mm	2.5	0.10	61-960

#### Assembly Material

Description	Part-No. 100 pcs.
PT-countersunk screw 2.5 x 6	5534-06



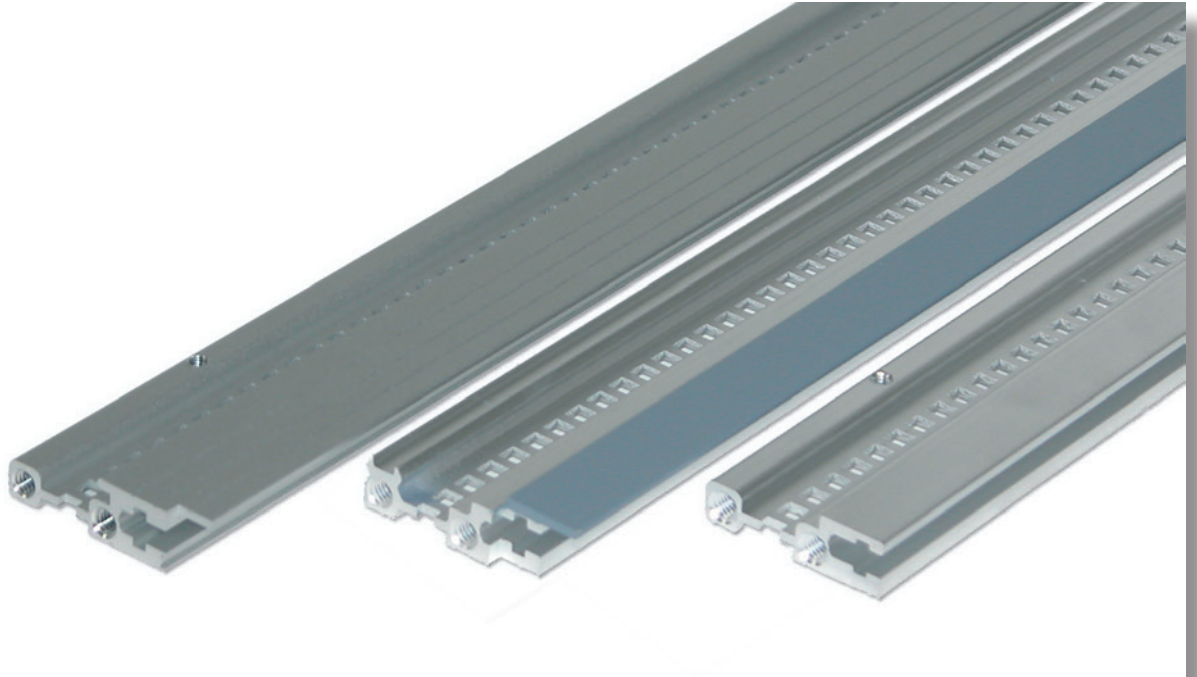
#### Coding Pins

- Acc. to IEC 60297-3-103
- Plastic, UL94 V-0
- Can be rotated in 4 positions

Description	Part-No.
Grey	81-054-02
Dark red	81-054-06
Black	81-054-04

# 2: Stylebox 15

B

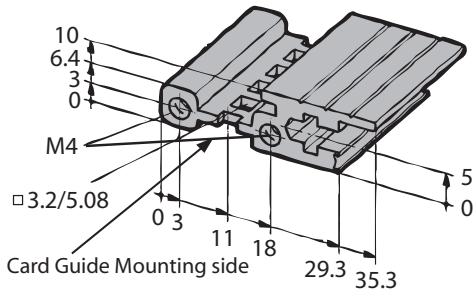


## 2.8 Extrusions

### 2.8.1 Front Extrusions

#### 2.8.1.1 Front Extrusion 66-111, IEC

- For sub racks and cases front
- **Scope of delivery:**
  - 1 front extrusion without assembly material



#### Standard Version

Length for HP	Length		Part-No.			
	mm	inch	clear anodised	black anodised	clear passivated	raw
21	111.8	4.40	66-111-26	-	-	-
28	147.3	5.80	66-111-25	-	-	-
32	167.6	6.80	66-111-62	-	-	-
42	218.4	8.60	66-111-60	-	66-111-75	-
63	325.1	12.80	66-111-61	-	66-111-76	-
81	416.6	16.40	66-111-22	-	66-111-77	-
84	431.8	17.00	66-111-23	66-111-56	66-111-78	-
	1350.0	53.15	-	-	-	66-111-19

