

Kicking plates
Ventilation plates
Ventilation grills
Perforated plates

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Technical Information

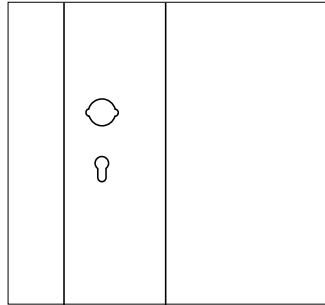
Kicking plates and finger plates

Doors are not always opened gently or with clean fingers. To prevent doors being soiled or mutilated, FSB supplies finger plates for the area adjacent to the lever handle and kicking plates for where feet tend to make contact.

Kicking and finger plates are available in a wide variety of materials (aluminium, stainless steel, brass) and thicknesses.

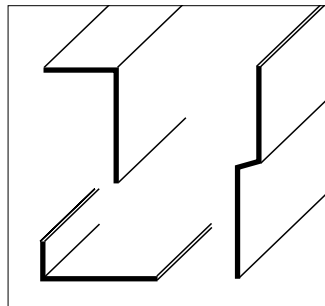
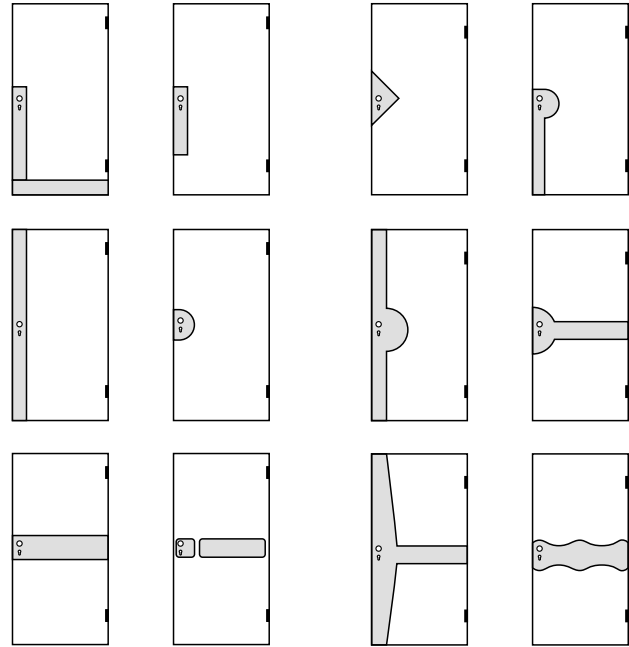
With or without screwholes

For assembly purposes, FSB kicking and finger plates are supplied as standard with holes for 3 mm countersunk screws. On express request, they may be supplied without screwholes, however. Plates 1 mm thick (FSB 5222 for example) can be made and delivered with self-adhesive foil instead of screwholes. Fitting such items requires experience and care on the part of the user. Most importantly, the surface of the door needs to be absolutely even and clean.



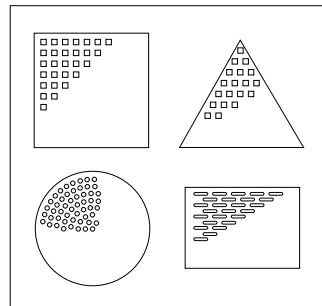
Perforations

Finger plates are generally machined to accept roses and backplates. FSB supplies finger plates as standard with piercings for the lever handle rose and for a standard euro-profile cylinder.



Return edges

Kicking plates and finger plates can feature a return edge. To ensure a good fit, detailed drawings need to be enclosed with orders that take account of all the structural tolerances involved. Should no such drawings or models be forthcoming, FSB will always treat dimensions cited for straightforward return edges as internal dimensions, notably in the case of rebated doors.



Shapes

Finger plates and kicking plates can come in many conceivable shapes, a few examples are shown here.

Basically, it's a question of availing oneself of the classic forms, i.e. square, circle, rectangle and triangle. To this extent FSB appeals to the imagination of designers and will gladly provide quotes on receipt of dimensioned drawings.

Data transferred in .dxf- or .dwg format can directly be processed by FSB.

Risk of injury

Items such as kicking plates, ventilation plates, ventilation covers and perforated plates are made of thin, sharp-edged material. When fitting them, it is important to make sure they lie flush against the surface to which they are to be attached. Such items should be handled with extreme care when being unpacked, fitted, checked for positioning and, indeed, throughout their service life. Carelessness in this respect can easily lead to fingers getting injured, especially in the course of cleaning routines.

Stock merchandise

FSB can effect immediate delivery of kicking plates in standard sizes from stock. Dimensions and materials are cited in the applicable price list.

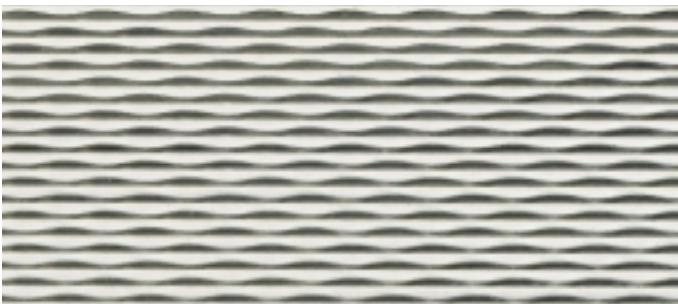
Kicking plates



5222 1 mm
Aluminium
Stainless steel

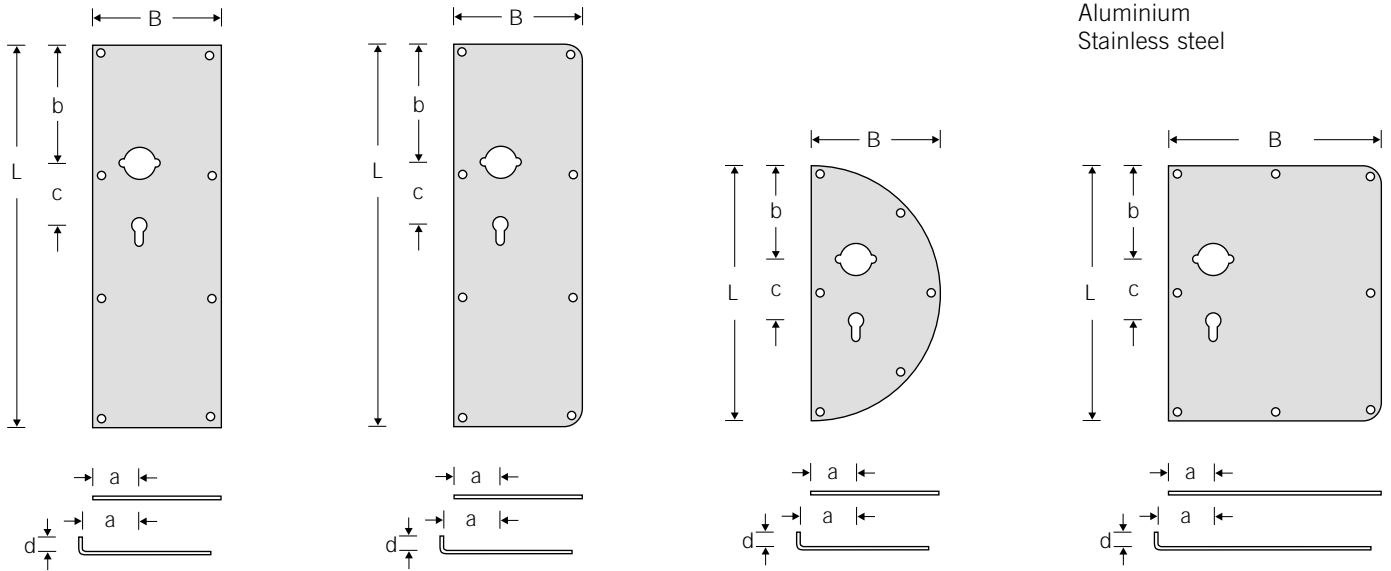
5223 1.5 mm
Aluminium
Stainless steel

5224 2 mm
Aluminium
Stainless steel



5215 1 mm
Aluminium

Finger plates



illustrated r.h.

5300 without return
5310 with return

5320 without return
5330 with return

5340 without return
5350 with return

5360 without return
5370 with return

Perforations

Finger plates can be pierced to accommodate roses or backplates. The simplest way of providing accurate specifications here is to cite the roses or backplates used together with their product codes. The following options are possible:

Option 1

Lever handle rose above (e. g. 1731), keyhole perforation below (e. g. europrofile cylinder).

Option 2

Lever handle rose above, escutcheon below (e. g. 1731, 1735).

Option 3

Door plate with visible fixing (e. g. model 1402).

Option 4

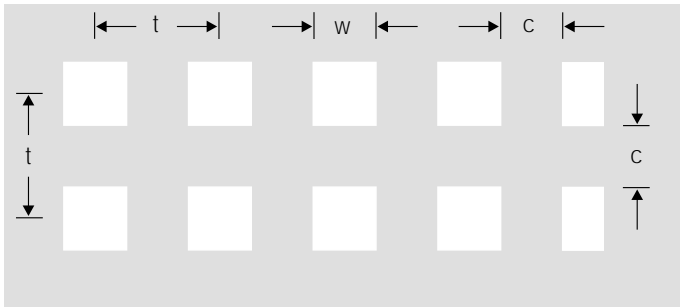
Backplate for invisible fixing (e. g. 1450).

Further options

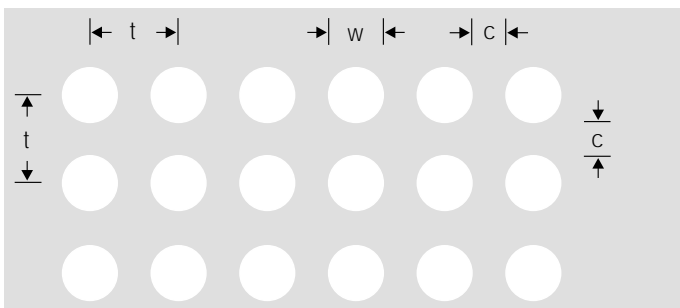
FSB can also produce other forms of finger plates to customer specifications through CNC or laser procedures. Please send dimensioned drawings. We will submit our own drawings and a quote by return.

pce	no	r.h. l.h.	L length mm	B width mm	a backset mm	b spacing mm	c keyhole spacing mm	d return mm	perforations with product codes for roses or backplates used				keyholes e. g.		
									1	2	3	4	BB	PZ	

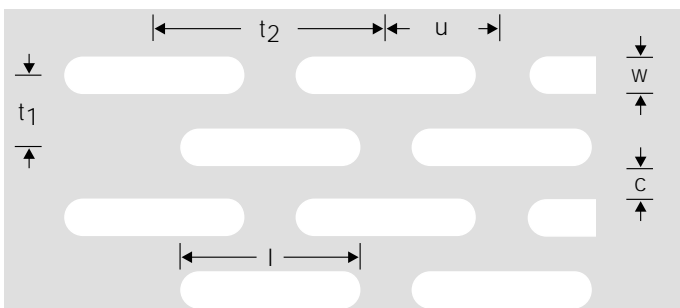
Measurement details of perforation



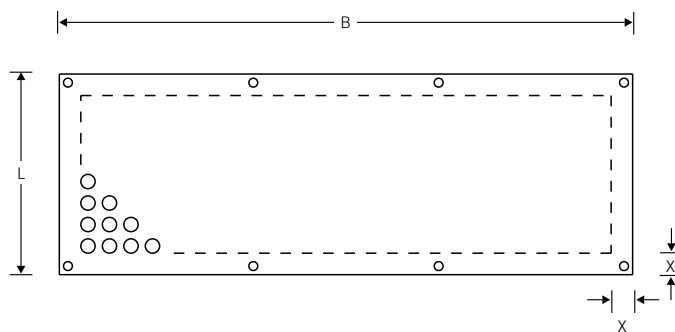
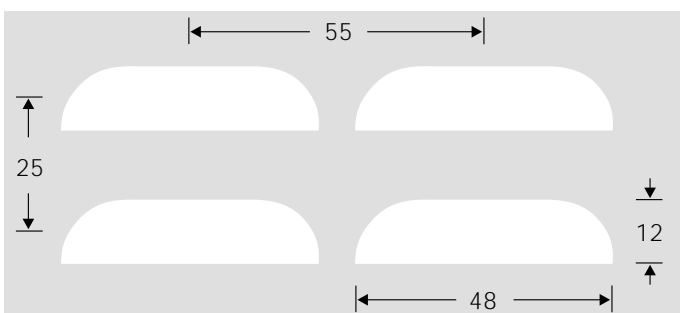
Perforation	w	t	c
7	14	7	
10	20	10	



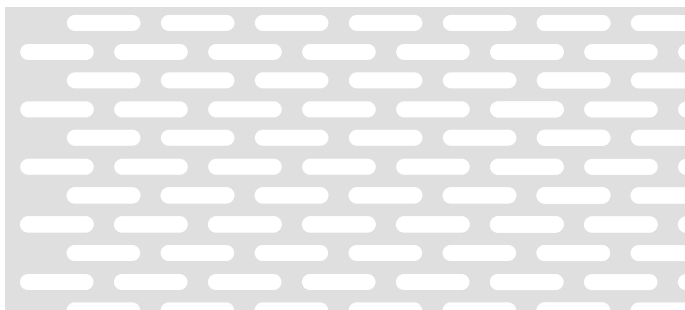
Perforation	w	t	c
∅ 6	10	4	
∅ 10	15	5	



Perforation	w	l	t ₁	t ₂	u	c
20 x 4	4	20	8	26	13.0	4
30 x 5	5	30	10	37	18.5	5
40 x 7	7	40	13	48	24.0	6



Perforated plates



20 x 4 mm slotted perforation

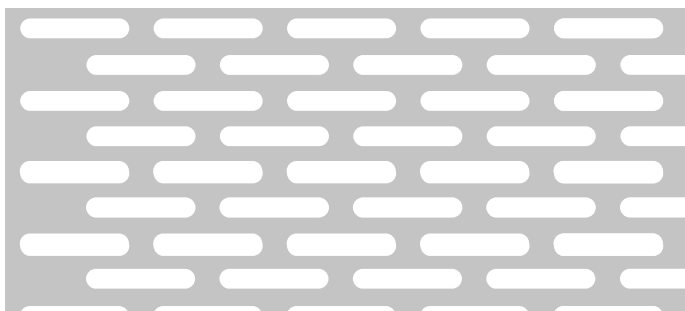
Relative free airflow area
34.2 %

5551 1 mm

Aluminium
Stainless steel

5552 1.5 mm

Aluminium
Stainless steel



30 x 5 mm slotted perforation

Relative free airflow area
36.4 %

5554 1 mm

Aluminium

5555 1.5 mm

Aluminium



40 x 7 mm slotted perforation

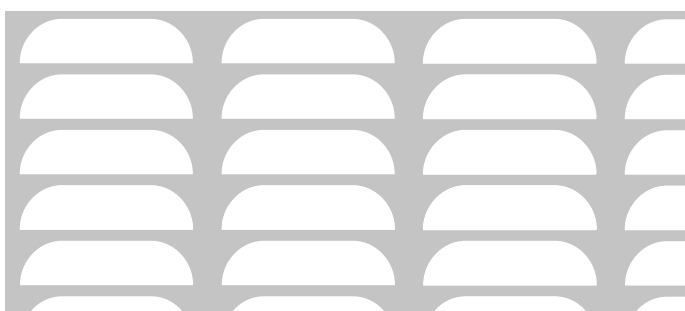
Relative free airflow area
40.4 %

5558 1 mm

Aluminium

5559 1.5 mm

Aluminium



48 mm muschelförmig
herausgeprägte Luftschlitze

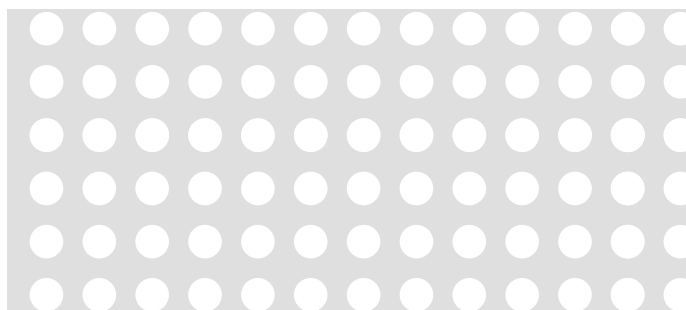
Ventilation section
1.2 cm²/slot

5581 1.5 mm

Aluminium

Further measurement details
see page 467

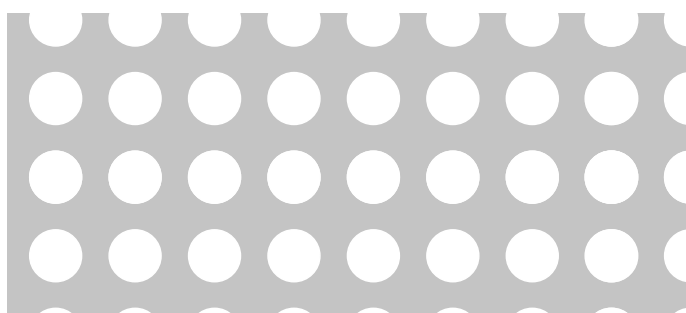
Perforated plates



6 mm round perforation
Relative free airflow area
26.6 %

5501 1 mm
Aluminium
Stainless steel

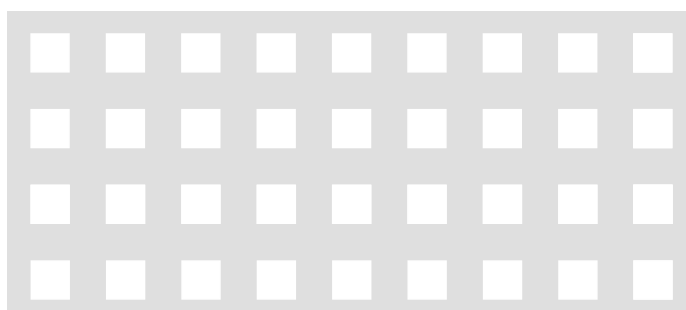
5502 1.5 mm
Aluminium
Stainless steel



10 mm round perforation
Relative free airflow area
33.2 %

5505 1 mm
Aluminium
Stainless steel

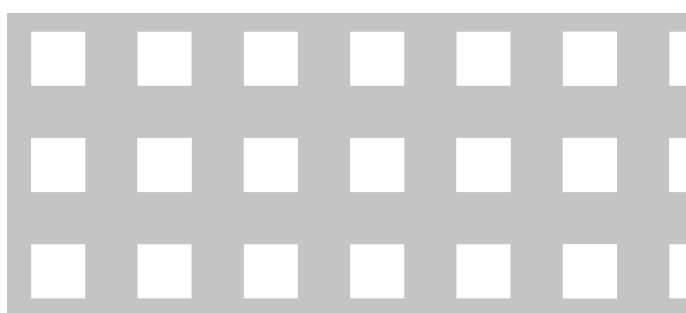
5506 1.5 mm
Aluminium
Stainless steel



7 mm square perforation
Relative free airflow area
23.3 %

5524 1 mm
Aluminium
Stainless steel

5525 1.5 mm
Aluminium
Stainless steel



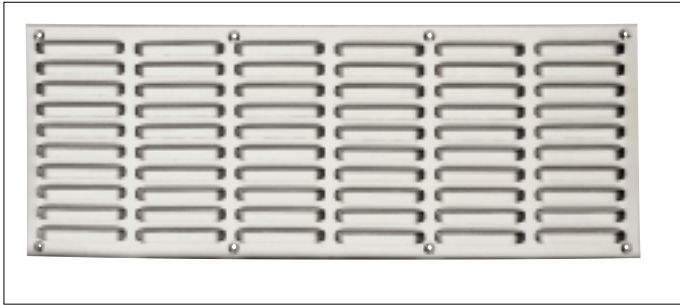
10 mm square perforation
Relative free airflow area
24 %

5528 1 mm
Aluminium
Stainless steel

5529 1.5 mm
Aluminium
Stainless steel

Further measurement details
see page 467

Perforated plates



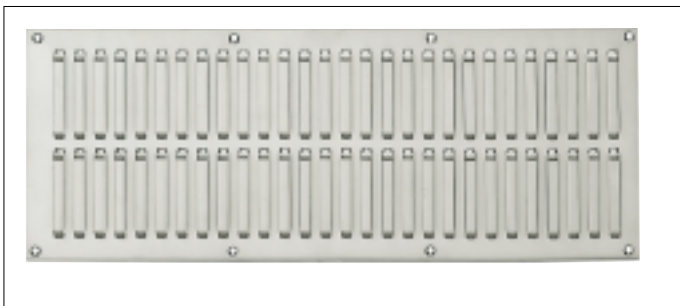
Size 360 x 135 mm
Slot length 50 mm

Ventilation area 144 cm²

Cutout size in the door
330 x 115 mm

5801

Aluminium 1.5 mm
Stainless steel 1 mm



Size 360 x 135 mm
Slot length 50 mm

Ventilation area 134.4 cm²

Cutout size in the door
330 x 115 mm

5802

Aluminium 1.5 mm
Stainless steel 1 mm



Size 55 mm Ø

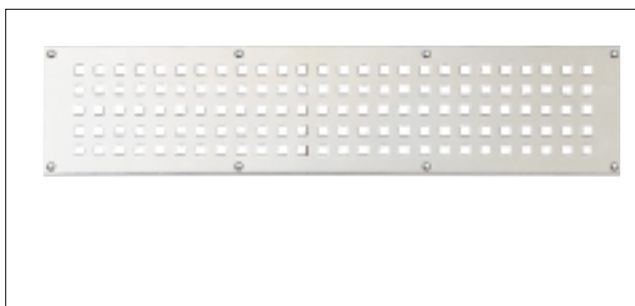
Ventilation area
2.88 cm²

Cutout size in the door
Ø 37 mm

5853

Aluminium
Stainless steel

Ventilation slide



Ventilation plates
with 7 mm □-Perforation

5833 1 mm

Aluminium
Stainless steel

No.	Size	Ventilation area	Cutout size in the door
5833 24	200 x 60 mm	17.64 cm ²	165 x 35 mm
5833 31	250 x 75 mm	31.30 cm ²	225 x 50 mm
5833 37	250 x 80 mm	31.30 cm ²	225 x 55 mm
5833 38	300 x 80 mm	39.20 cm ²	280 x 55 mm
5833 39	400 x 80 mm	52.90 cm ²	375 x 55 mm
5833 40	500 x 80 mm	66.90 cm ²	475 x 55 mm
5833 41	400 x 90 mm	63.70 cm ²	375 x 65 mm
5833 46	300 x 100 mm	55.86 cm ²	275 x 80 mm
5833 47	400 x 100 mm	79.38 cm ²	375 x 80 mm
5833 48	500 x 100 mm	94.08 cm ²	475 x 80 mm
5833 51	500 x 90 mm	83.30 cm ²	475 x 65 mm
5833 61	600 x 90 mm	100.45 cm ²	575 x 65 mm

Suitable as counterplates to 5821



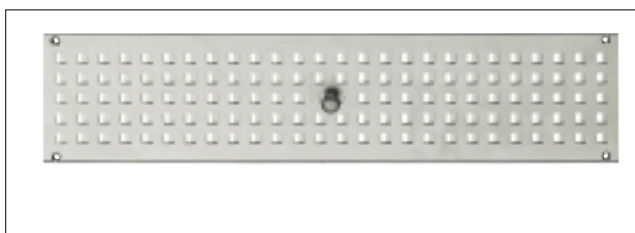
Ventilation plates with concha-
tely louvred ventilation slots
Slot length 48 mm

5835 1 mm

Aluminium
Stainless steel

No.	Size	Ventilation area	Cutout size in the door
5835 24	200 x 60 mm	10.80 cm ²	175 x 45 mm
5835 31	250 x 75 mm	14.40 cm ²	230 x 60 mm
5835 41	400 x 90 mm	28.80 cm ²	385 x 65 mm

Suitable as counterplates to 5821



Ventilation plates
with 7 mm □-Perforation
Available length up to 600 mm

5821 4 mm

Aluminiumprofile

No.	Size	Ventilation area	Cutout size in the door
5821 24	200 x 60 mm	16.60 cm ²	175 x 41 mm
5821 31	250 x 75 mm	29.40 cm ²	235 x 56 mm
5821 41	400 x 90 mm	62.70 cm ²	385 x 71 mm
5821 51	500 x 90 mm	77.42 cm ²	480 x 71 mm
5821 61	600 x 90 mm	89.67 cm ²	570 x 71 mm

Ventilation covers



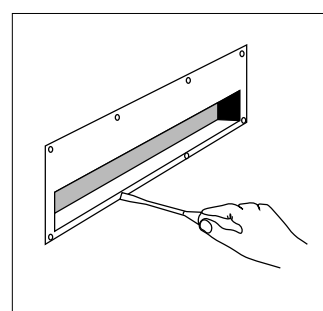
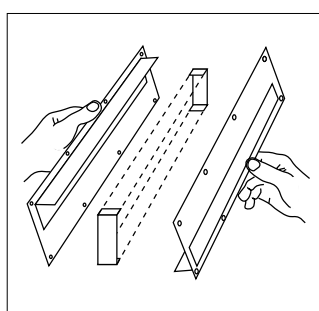
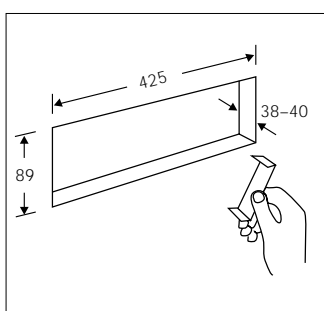
5807

Aluminium 1.5 mm
Stainless steel 1.0 mm

HORA-ventilation cover for bathroom with gas heating

Ventilation section 150 cm², corresponding to the German building regulations.

Size 450 x 115 mm
Door cutout 425 x 89 mm



5812

Aluminium

Ventilation hood

Size 320 x 80 mm
Door cutout 280 x 65 mm

Ventilation section 46.55 cm²

5833 0038

Aluminium

Ventilation grid

Size 300 x 80 mm
Door cutout 280 x 55 mm

Ventilation section 39.2 cm²

Items such as kicking plates, ventilation plates, ventilation grills, ventilation covers and perforated plates are made of thin, sharp-edged material. When fitting them, it is important to make sure they lie flush against the surface to which they are to be attached. Such items should be handled with

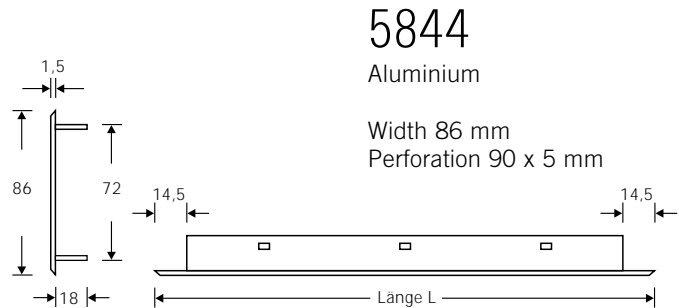
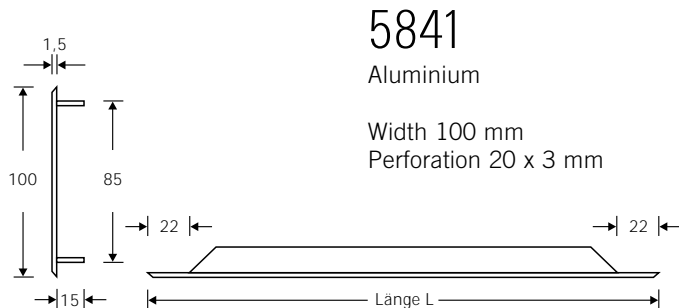
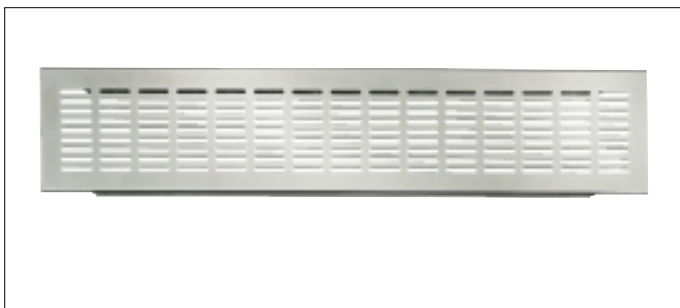
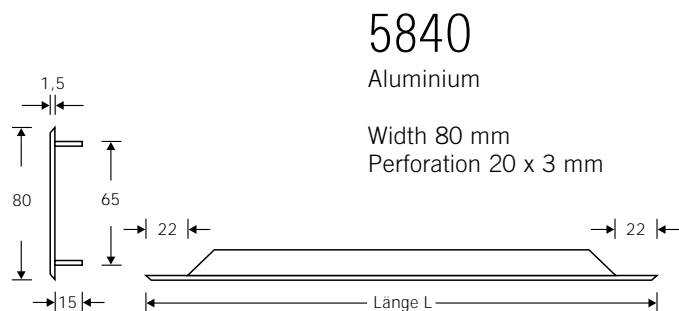
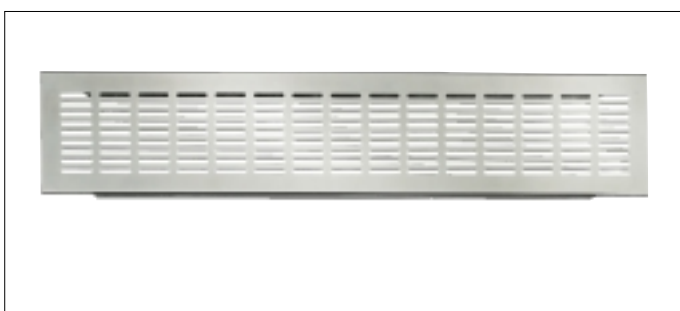
extreme care when being unpacked, fitted, checked for positioning and, indeed, throughout their service life. Carelessness in this respect can easily lead to fingers getting injured, especially in the course of cleaning routines.

Ventilation covers

The ventilation web plates 5840 and 5841 are available in stock lengths 200, 300, 400, 480, 500, 600, 800, 1,000 and 2,500 mm.

A tailor-made construction according to your requirements is possible. Special construction and special finish on request.

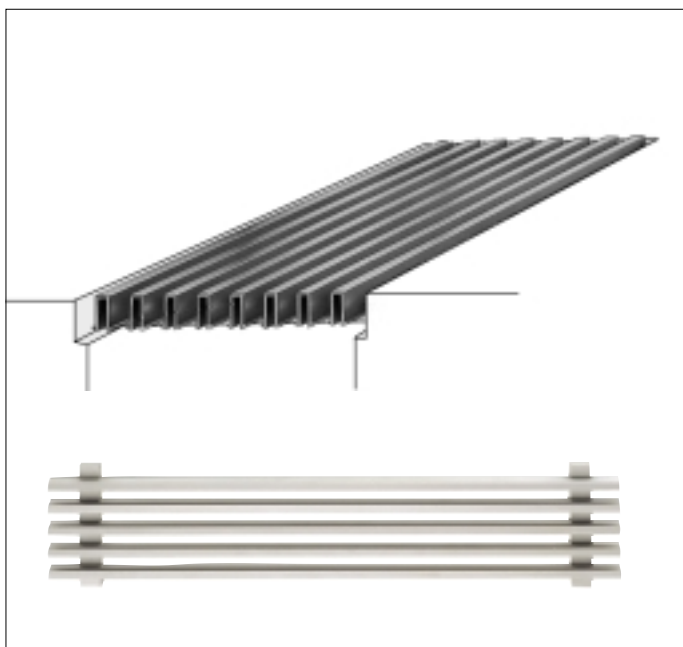
The ventilation web plates FSB 5844 are available in standard lengths of 400 and 500 mm.



Ventilation areas:

- 5840 208.8 cm²/lfd m.
- 5841 278.4 cm²/lfd m.
- 5844 400.0 cm²/lfd m.

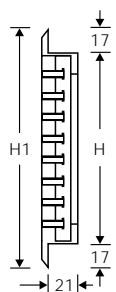
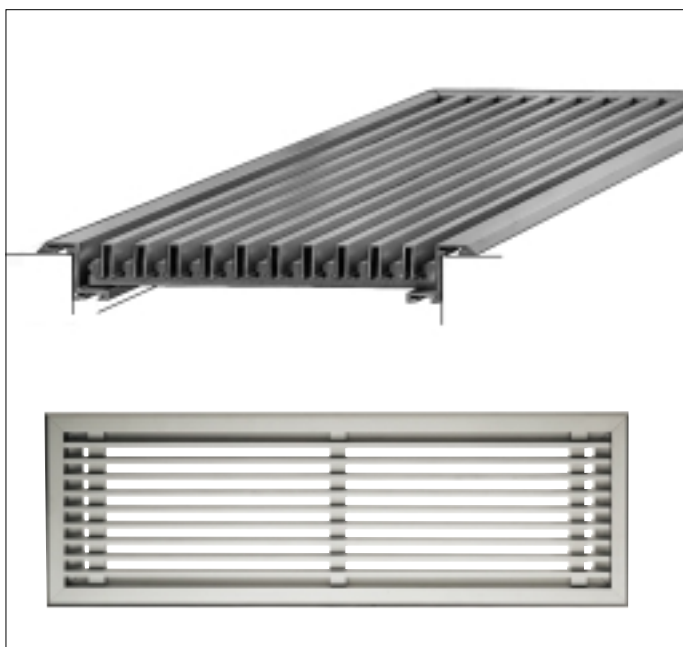
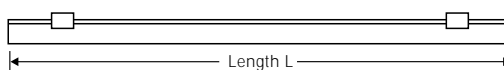
Air inlet and outlet grills



5588

Aluminium

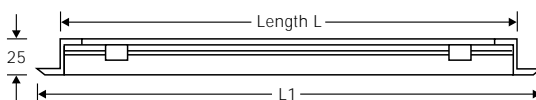
Fixing procedure A I + A II



5589

Aluminium

Fixing procedure A III + A VI



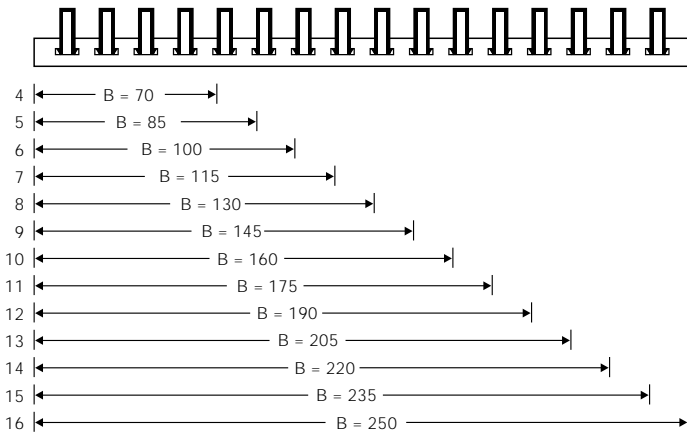
H clear installation height
H₁ total length

L clear installation height
L₁ total length

FSB air inlet and outlet grills in aluminium are deployed as decorative fittings in ceilings, walls, heating covers, furniture and so on. They cannot be walked or driven on.

Ordering procedure as well as sizes and models described on the following pages.

Air inlet and outlet grills



FSB can produce any dimensions within the range 4,000 x 250 mm. To avoid any unnecessary delay, please submit exact measurements, ideally on a copy of the order chart shown here. The number of lattice bars and support webs required can be roughly assessed using the appropriate tables.

In exceptional circumstances where the max. width of 250 mm needs to be exceeded, please supply us with an out-line of the situation stating all dimensions. One solution is to combine several lattice bars with one support web. FSB will willingly offer a quote for such work.

Number of holding webs:

300 - 400 mm	2 pieces
500 - 800 mm	3 pieces
900 - 1200 mm	4 pieces
1300 - 1600 mm	5 pieces
1700 - 2000 mm	6 pieces
2100 - 2500 mm	7 pieces

5888

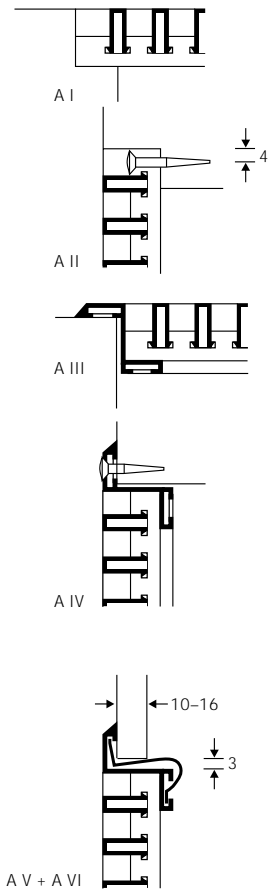
5889

Aluminium

For intermediate sizes or larger widths than 250 mm, please ask us.

Fixing modes:

- A I
without fixing holes to be placed into the groove
- A II
support webs provided with countersunk screw holes 4,25 mm Ø
- A III
Z-frame without fixing holes (grill is placed without being fixed)
- A IV
Z-frame with countersunk screw holes 4.25 mm Ø, grill is fixed in the Z-frame
- A V
Z-frame with spring elements, grill is placed without being fixed (for horizontal installation)
- A VI
Z-frame with spring elements, grill is fixed in the Z-frame.



Necessary order details:

Quantity	Item no.	Colour	Dim. L	Dim. H	Dim. L1	Dim. H1	A I	A II	A III	A IV	A V	A VI

Air inlet and outlet grills

Stock sizes:

The FSB-aluminium air inlet and outlet grills are constructed in a way that all parts can be kept in stock by retailers or fabricators and put together as required with a minimum of fuss.

Aluminium profile for lattice bars:
 Stock length: 4,000 mm
 Item no.: 5888 50
 Packing unit 29 pieces



5888

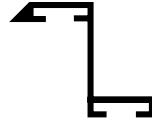
5889

Aluminium

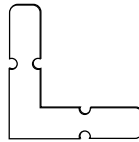
Aluminium support web
 15 x 250 mm
 Item no.: 5888 60



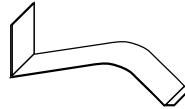
Aluminium profile for Z-frame
 Stock length: 4000 mm
 Item no.: 5889 60
 Packing unit 25 pieces



Corner connection for Z-frames
 Item no.: 5889 65
 Packing unit 250 pieces



Clamp element, spring steel
 Item no.: 5889 66
 Packing unit 250 pieces



11

Order quantity per packing unit:

Number of inlets FSB 5888 50	Number of aluminium support webs	Number of Z-Frames	Number of corner connections	Number of spring elements

Weatherseals

8580
Aluminium

Available sizes
for horizontal installation:

lengths up to max. 4000 mm
height up to max. 600 mm

for vertical installation:

lengths up to max. 1000 mm
height up to max. 1500 mm

Other dimensions on request.

The weatherseals can be installed flush. The overlap is 12 mm and is provided with countersunk screw holes.

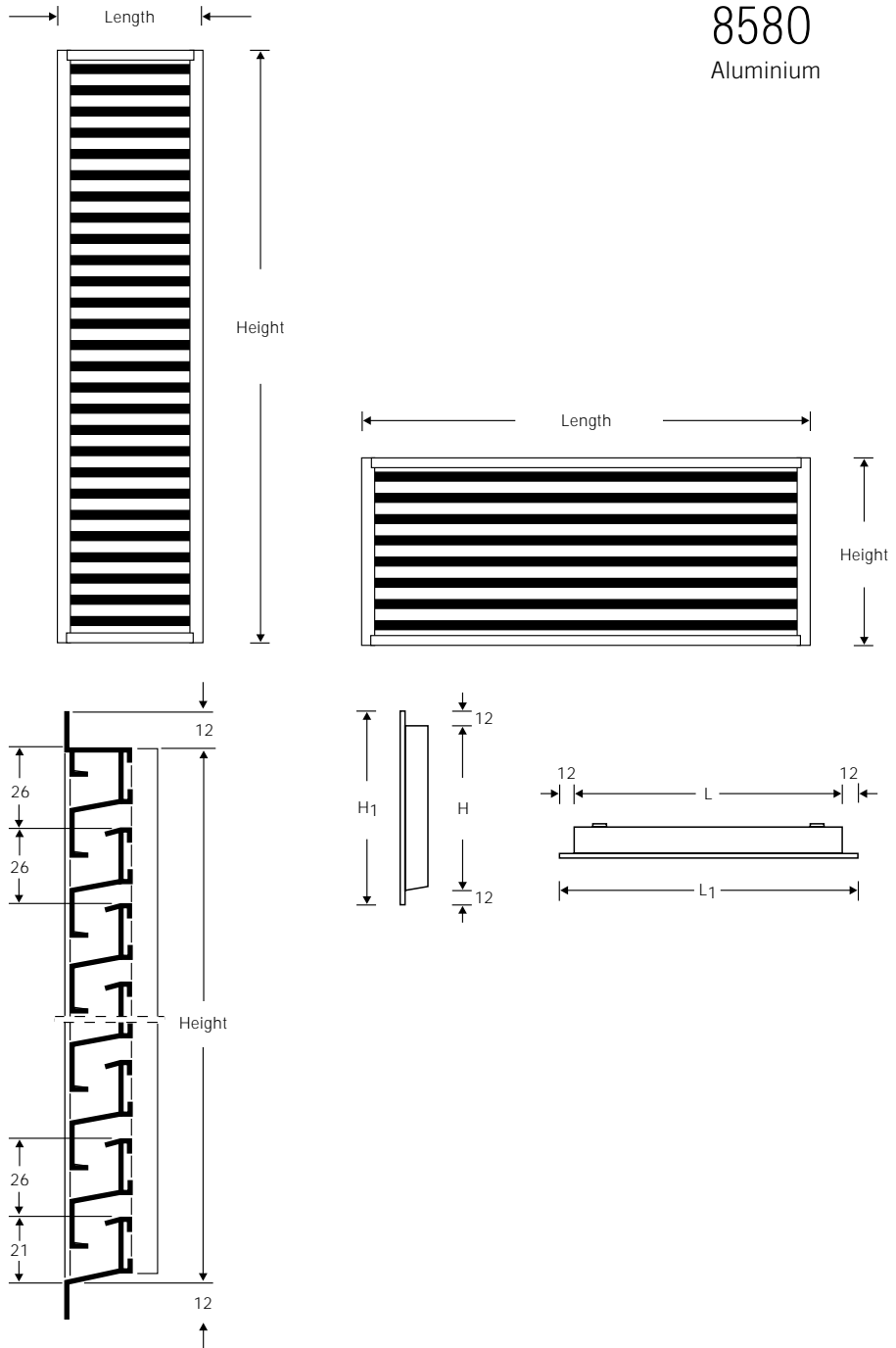
For the installation height a modular dimension of 26 mm; + 21 mm for bottom section.

Height =
no. of blades x 26 + 21
(e. g. 5 x 26 + 21 = 151 mm).

Length can be produced to size up to max. 4000 mm.

Installation depth for vertical installation without holding webs 21 mm, for horizontal installation with holding webs 28 mm.

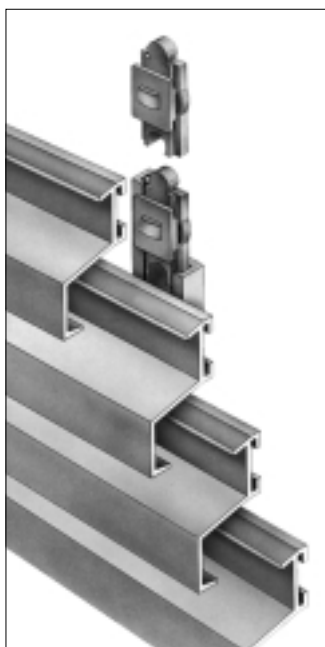
Ordering sizes:
H clear installation height
H₁ total height
L clear installation length
L₁ total length



Necessary order details:

Quantity	Item no.	Colour	Dim. L	Dim. H	Dim. L ₁	Dim. H ₁

Weatherseals



Stock version:

8581

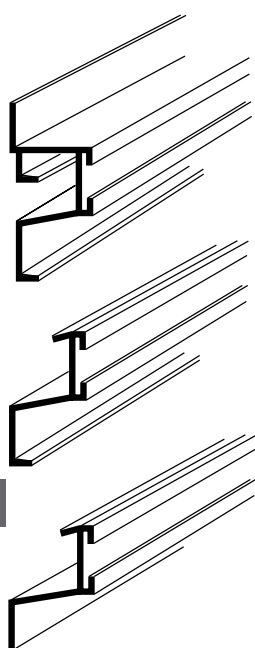
The FSB-weatherseals are also available in single components for self-assembly and installation.

Working instructions:

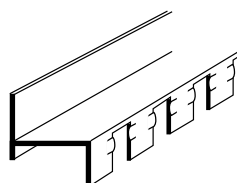
By simply cutting the sections to size and joining them up with holders, webs and cheeks, weatherseals of any dimensions can be produced.

1. Saw top, middle and bottom weatherseal blades to desired length (opening size -5 mm).
2. Saw lateral end sections to desired lengths notching them for the top and bottom sections.
3. Push weatherseal sections on lateral end sections. Use auxiliary web sections with plastic holder for lengths and widths over 400 mm.
4. The weatherseal can be secured on the top and bottom, in the area of the lateral end sections and web sections, using pop-rivets.

Single sections:

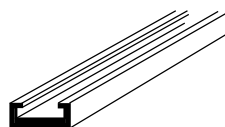


Top section
Length: 4,000 mm
Item no.: 8581 01



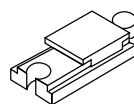
Lateral section with punches
Length: 4,000 mm
Item no.: 8581 04

Blade section
Length: 4,000 mm
Item no.: 8581 02



Web section
Length: 4,000 mm
Item no.: 8581 05

Bottom section
Length: 4,000 mm
Item no.: 8581 03



Plastic holder
Item no.: 8581 06