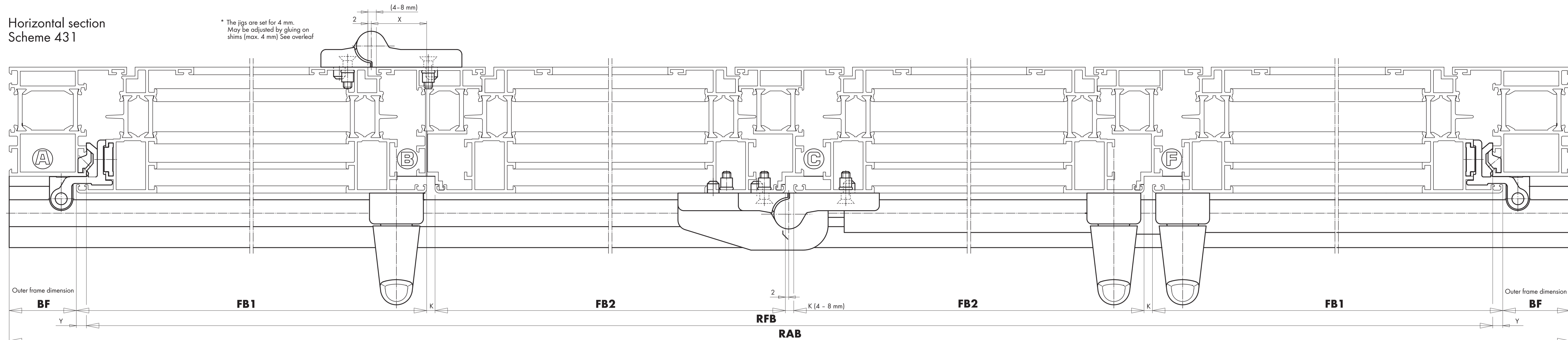


# Horizontal section Scheme 431

\* The jigs are set for 4 mm.  
May be adjusted by gluing on  
shims (max. 4 mm) See overleaf

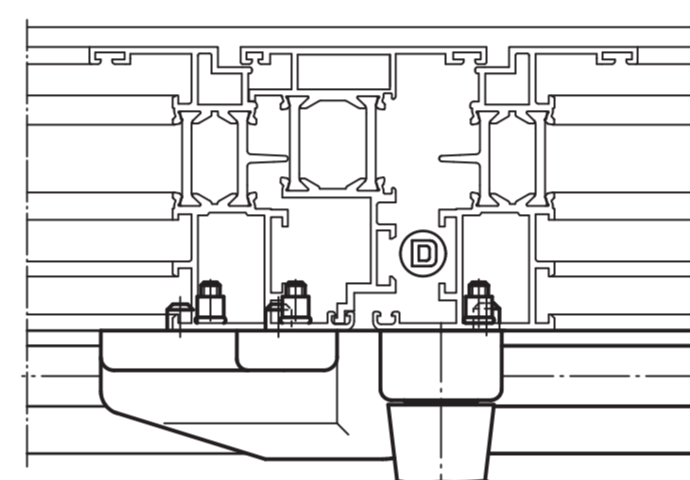


## Chart to determine FB

321, 330	$FB1 = \frac{RFB + (2 \cdot Y) - (2 \cdot K) + A}{3}$
431	$FB1 = \frac{RFB + (2 \cdot Y) - (3 \cdot K) + (2 \cdot A)}{4}$
541, 550, 532	$FB1 = \frac{RFB + (2 \cdot Y) - (4 \cdot K) + (2 \cdot A) + 12}{5}$
651, 633	$FB1 = \frac{RFB + (2 \cdot Y) - (5 \cdot K) + (2 \cdot A) + 24}{6}$
761, 770, 743	$FB1 = \frac{RFB + (2 \cdot Y) - (6 \cdot K) + (3 \cdot A) + 24}{7}$

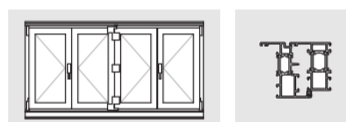
BF = Outer frame dimension  
K = Sash distance

**Attention:** Framed dimensions must be strictly adhered. Otherwise there may be danger for users or danger of damaging the element!



## PORTAL FS ALU

fold and slide door hardware  
for aluminium elements with eurogroove



## PORTAL FS ALU Scheme overview

Scheme 220\*



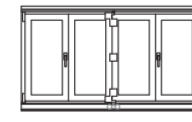
2 folding sashes  
0 sash providing access<sup>1)</sup>

Scheme 321



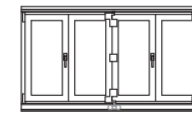
2 folding sashes  
1 sash providing access

Scheme 431



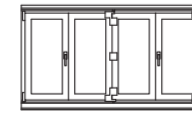
3 folding sashes  
1 sash providing access

Scheme 541



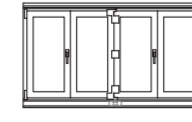
4 folding sashes  
1 sash providing access

Scheme 651



5 folding sashes  
1 sash providing access

Scheme 761

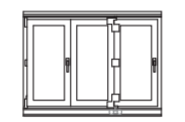


6 folding sashes  
1 sash providing access

**Note:** All schemes can also be implemented in mirror image.

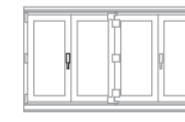
1) Access through the first folding sash  
2) e.g. A = Point A in mirror image, etc.

Scheme 330



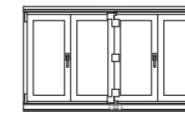
3 folding sashes  
0 sash providing access<sup>1)</sup>

Scheme 440\*



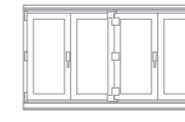
4 folding sashes  
0 sash providing access<sup>1)</sup>

Scheme 550



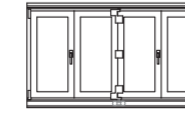
5 folding sashes  
1 sash providing access<sup>1)</sup>

Scheme 660\*



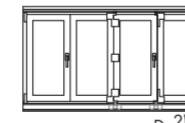
6 folding sashes  
0 sash providing access<sup>1)</sup>

Scheme 770



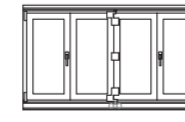
7 folding sashes  
0 sash providing access<sup>1)</sup>

Scheme 532



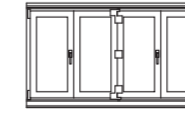
3+2 folding sashes  
0 sash providing access<sup>1)</sup>

Scheme 633



3+3 folding sashes  
0 sash providing access<sup>1)</sup>

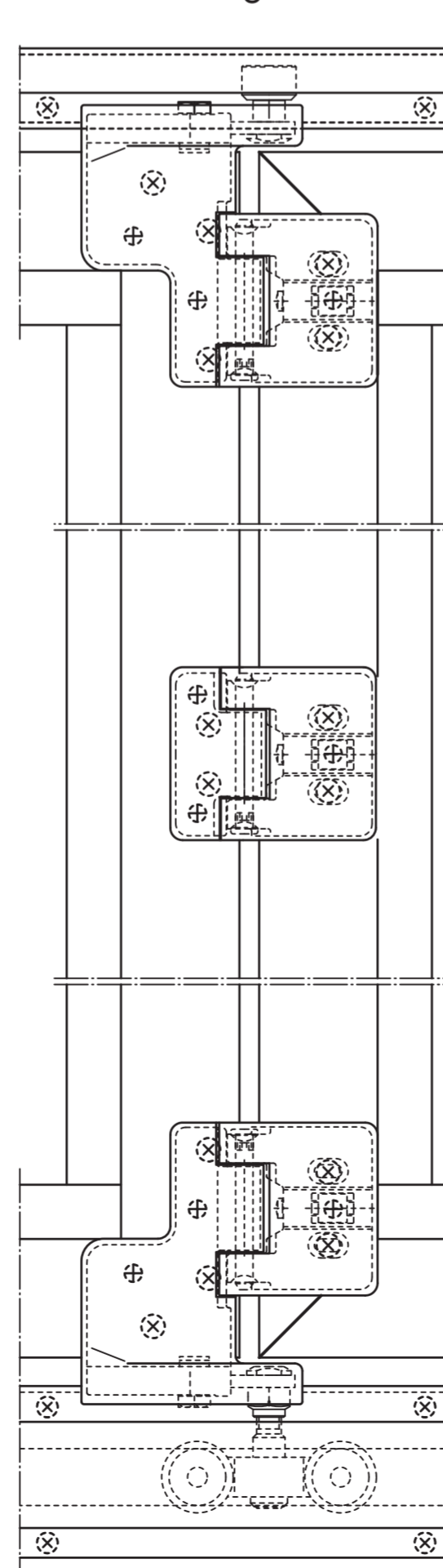
Scheme 743



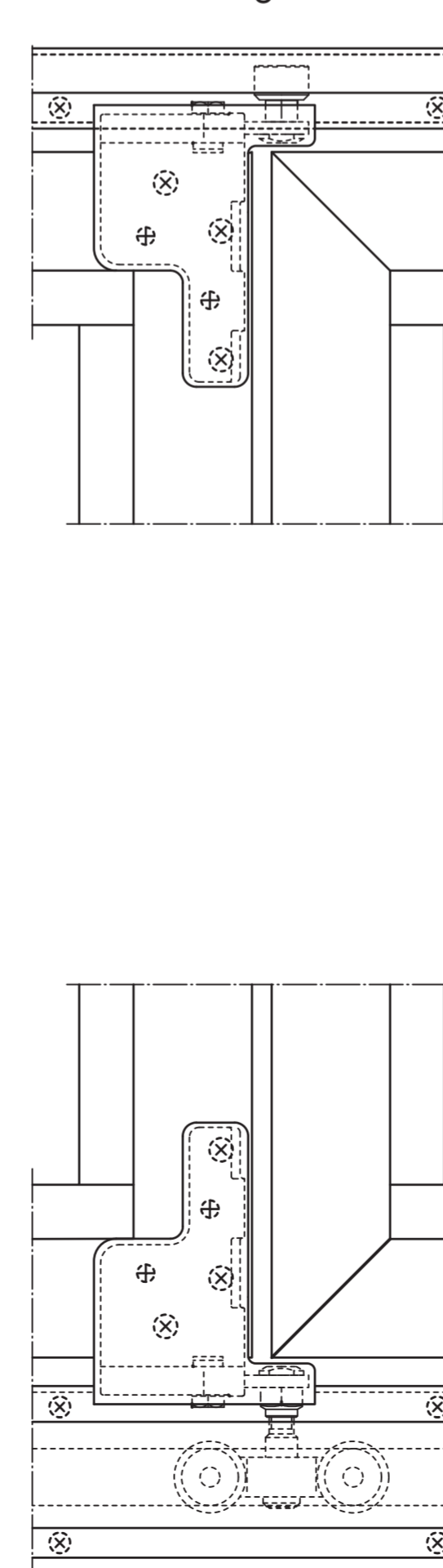
4+3 folding sashes  
0 sash providing access<sup>1)</sup>

\* Follow the design notes in the assembly instructions FSde1006.

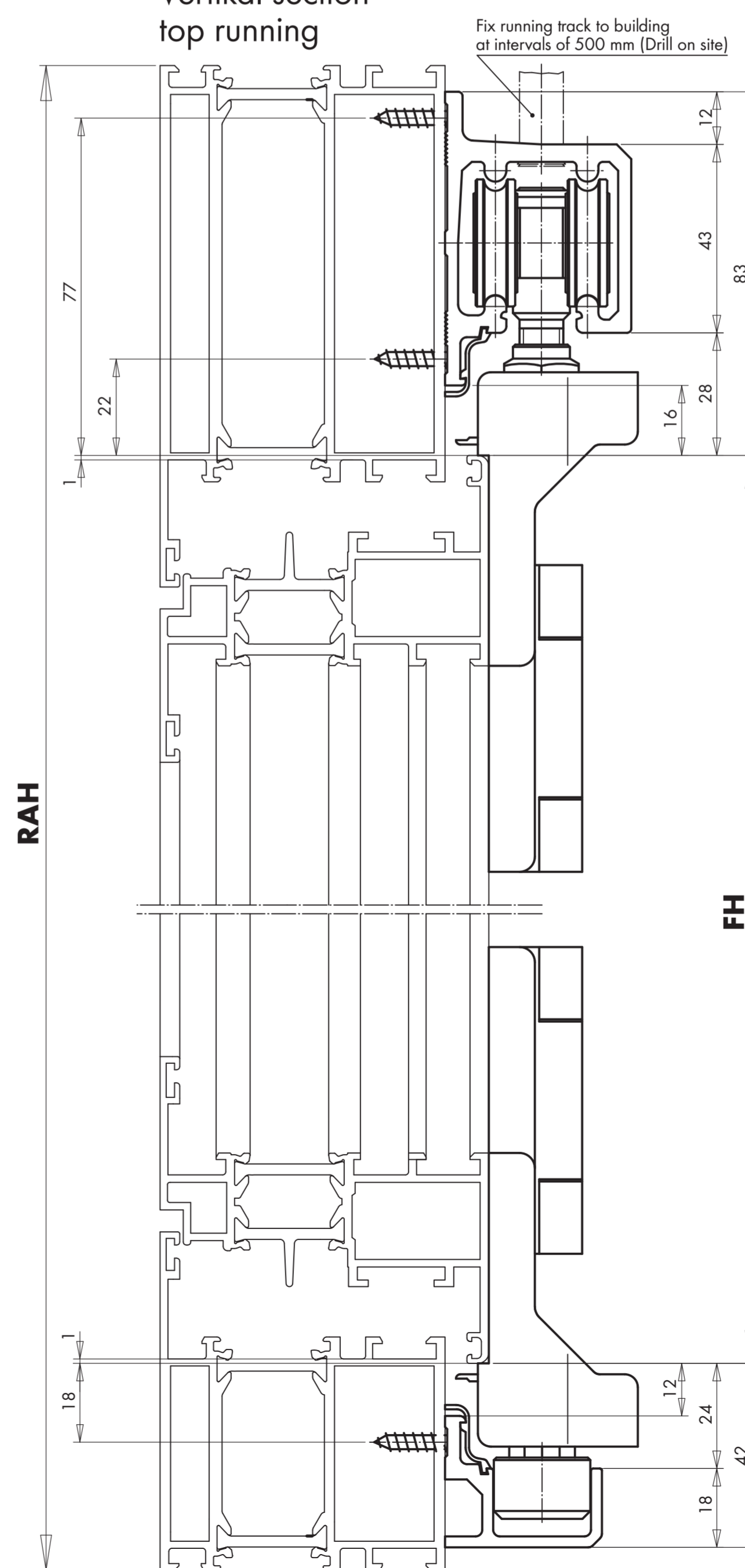
## Section bottom tuning C



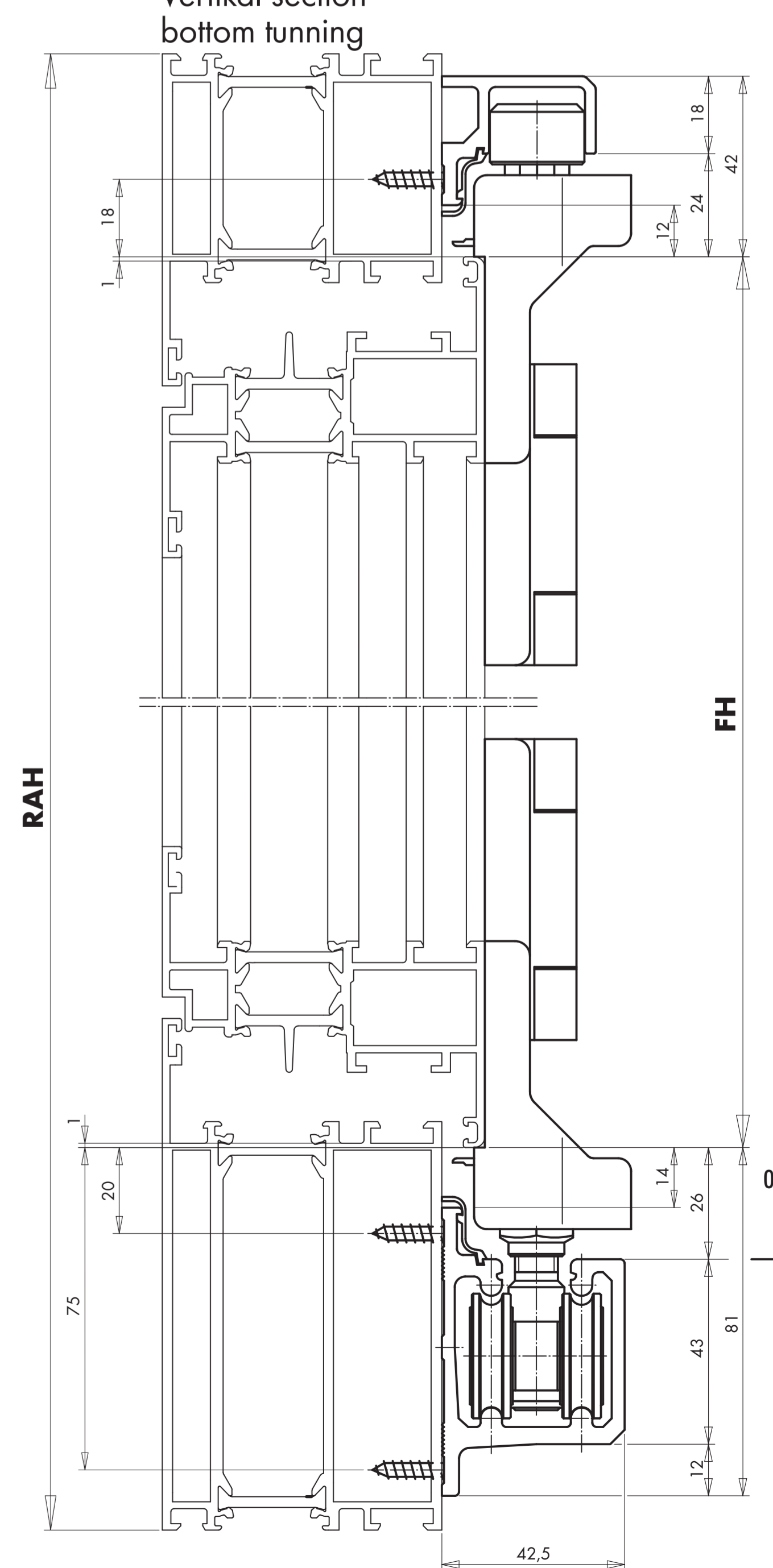
## Section bottom tuning D



## Vertikal section top running



## Vertikal section bottom tuning



### ... with the key benefits:

- Running on the top or the bottom with the same profile set
- Stable running rail with convenient threshold height
- Versatile adjustment options
- Smooth sash motion thanks to 4-roller ball-bearing bogie wheels
- Efficient assembly

### Size range

Sash width (mm)	330 <sup>1)</sup> to 900
Sash height (mm)	850 to 2400
Frame width (mm)	depends on the profile system and scheme; determined by sash widths.
Sash weight (kg)	<b>max. 80</b>
Rebate height (mm)	10 to 16 <sup>2)</sup>

1) Sashes providing access should be larger than 600 mm if possible  
2) Rebate heights of 7 to 9 mm with FS PORTAL LM packers on request

The above size ranges are valid for the SIEGENIA PORTAL FS ALU. In addition, the specifications of the profile fabricator or system owners also apply, especially in regard to possible restrictions on sash dimensions, maximum number of sashes per element, sash weight and locking distance. If special manufacturing instructions or fabrication guidelines exist, these must be explicitly observed.

Assembly instruction references:  
- LMen1361 gear set M6 / gear set FBS M6  
- LMen1362 LM4200DK clampable turn/handle hardware  
- LMen1364 LM4200D clampable turn-only sash hardware

Assembly information:  
If there are plans to include a 90° wall connection at the folding door end, use a wider frame and a removable LM handle.

## Assembly instructions

H48.FS.M50001EN