User manual Asta stairs

Asta stairs

The Asta stair is a practical solution that fits perfectly into your home, garage or utility room. Rely on a minimalist form and high functionality. Supported by the simplicity of assembly and access to many product variants that can be adapted to the circumstances and layout of the room. You decide how the trap will look. Due to the simplicity of the design, the entire assembly process can be carried out without qualified specialists.

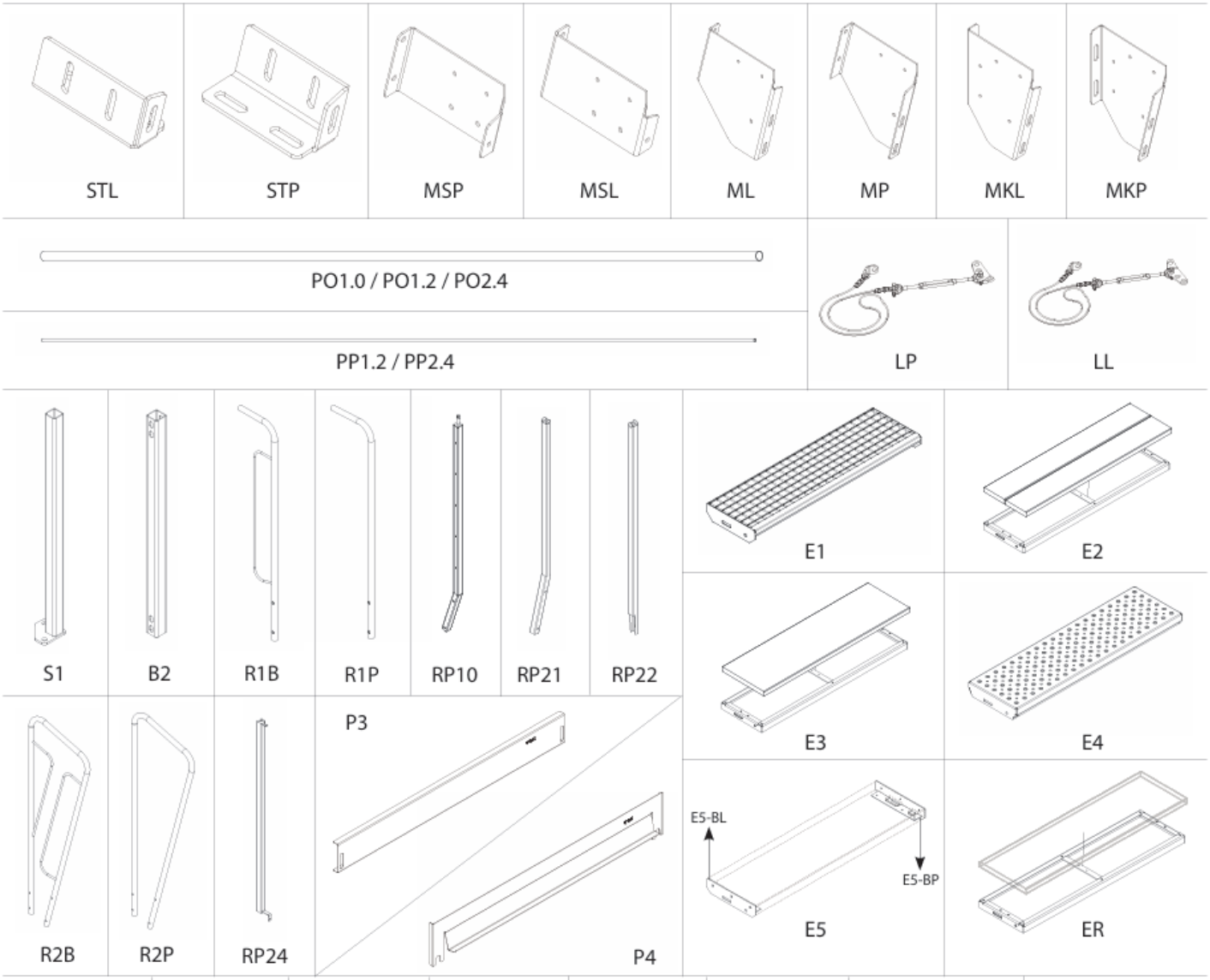
By using standard, ready-made parts, the Asta stair is a component for every room. The stairs can be used, for example, in homes, industrial buildings, but also in utility rooms, offices or terraces. The materials are designed in such a way that self-assembly / installation is easy.

There are several options available. In addition, you can decide for yourself which type of 'stair filling' you choose. The sets include steps and railings that are required for self-assembly, such as: bolts, screws, etc.

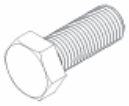
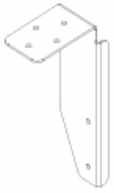
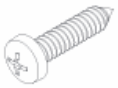
The great advantage of the Asta stair is that it takes up relatively little space. This makes sense in less spacious interiors. This makes them particularly suitable when you want to use as little space as possible.

- Easy & quick to install (yourself)
- High quality and durability guaranteed
- Maximum load: 2kN/m2
- Modular construction
- Wide choice of materials and designs
- Time-saving
- User-friendly
- Maximum height: 3,800 mm
- Weather-resistant
- Scandinavian design
- Easy to install and extend
- Usable width: 900 mm
- Innovative solution

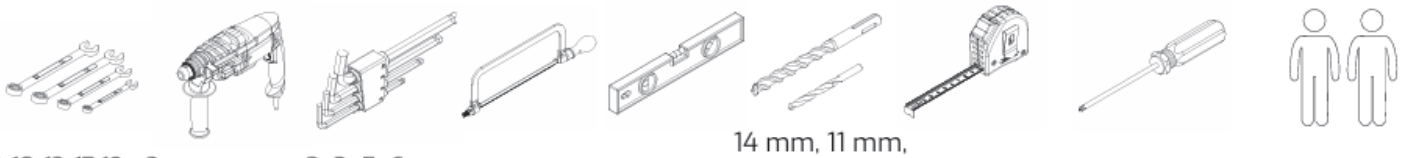
Parts


STL
STP
MSP
MSL
ML
MP
MKL
MKP
PO1.0 / PO1.2 / PO2.4
PP1.2 / PP2.4
LP
LL
S1
B2
R1B
R1P
RP10
RP21
RP22
E1
E2
E3
E4
R2B
R2P
RP24
P3
P4
E5-BL
E5-BP
E5
ER

 M-EB-01	 RO28	 ZW-28	 WSP	 LS	 M-EB-02	 L6	 L1
 M-Z-G	 WF8	 M-EB-05	 WSP2	 M-EB-04	 M-EB-03	 OB	

 M5 x 16 M8 x 20 M8 x 50 M10 x 25 M10 x 40 M10 x 70	 M12 x 30 M8 x 20 M8 x 50 M10 x 25 M10 x 40 M10 x 70	 MS6 x 50	 M6 x 40	 M6, M8, M10, M12	 MK5 MK6	 W8, W10, W12	 WS8, WS10 WS12	 UL5	 UL4
		 WK4,2 x 16	 WD4 x 50 WD3,5 x 20						

Fastening materials



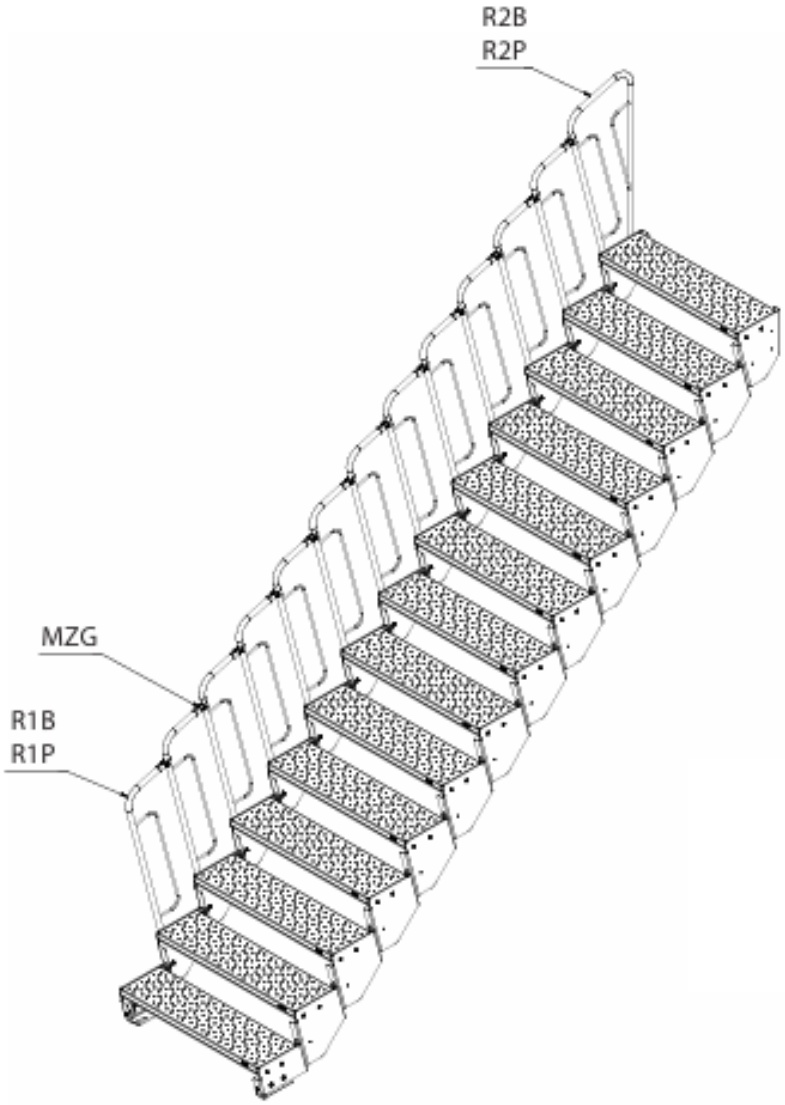
8, 10, 13, 17, 19 x 2

2, 3, 5, 6

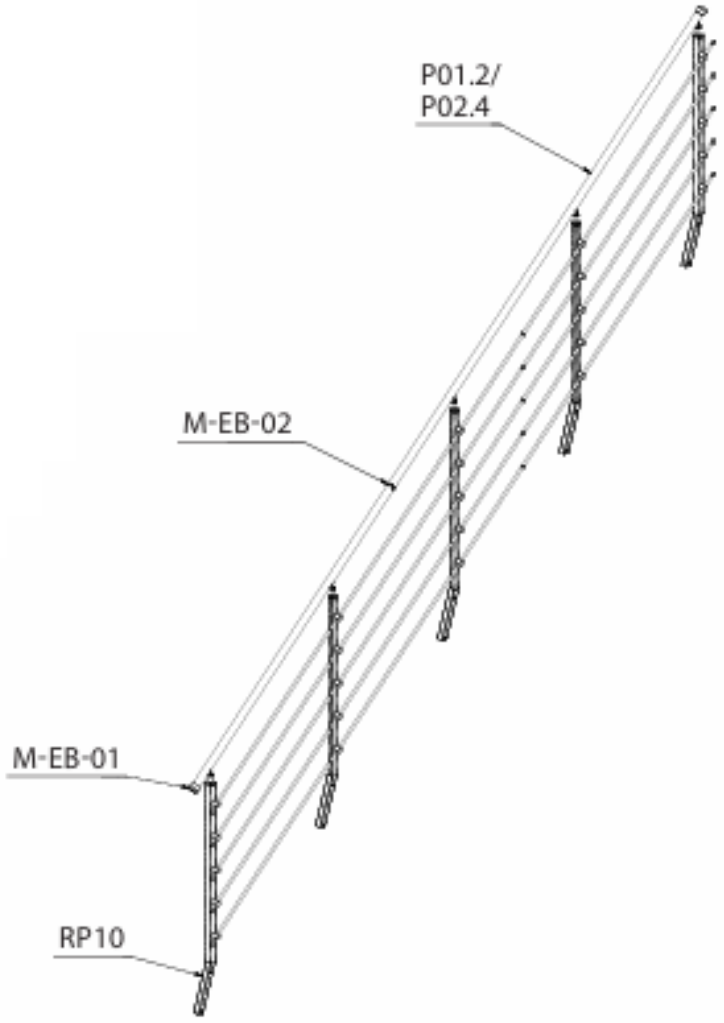
14 mm, 11 mm,
3,5 mm, 2,5 mm

Variants

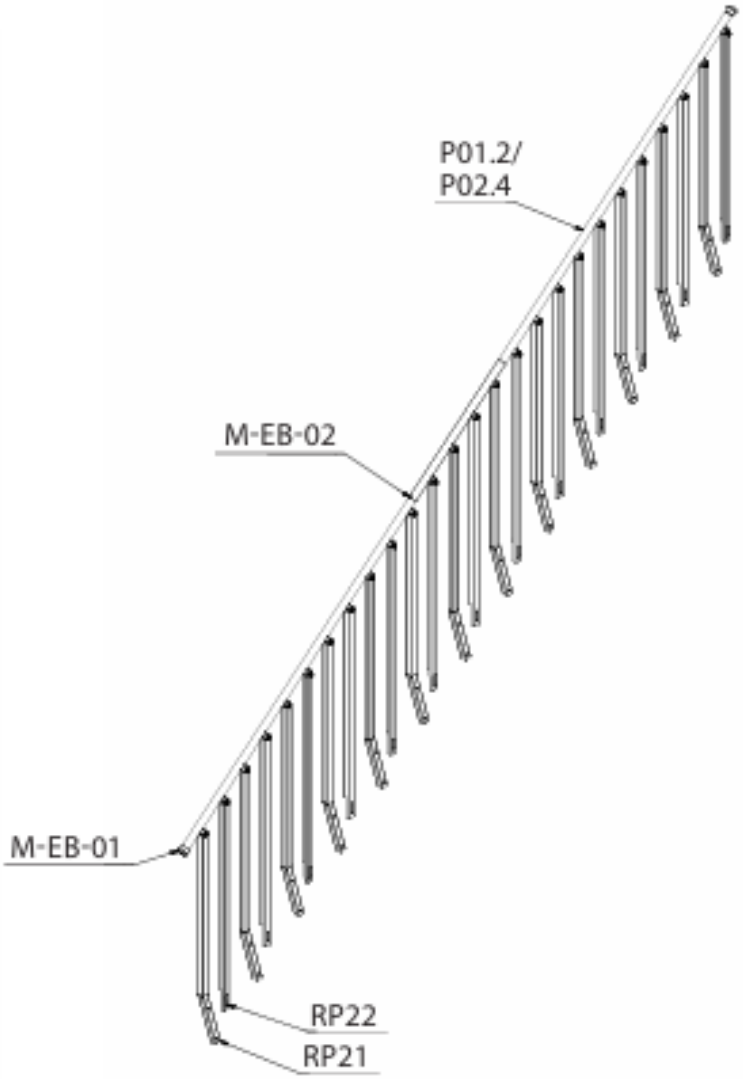
Stairs with modular balustrades.



Raling with fi 12 mm tubes of fi 14 mm lines.



Safety railing.



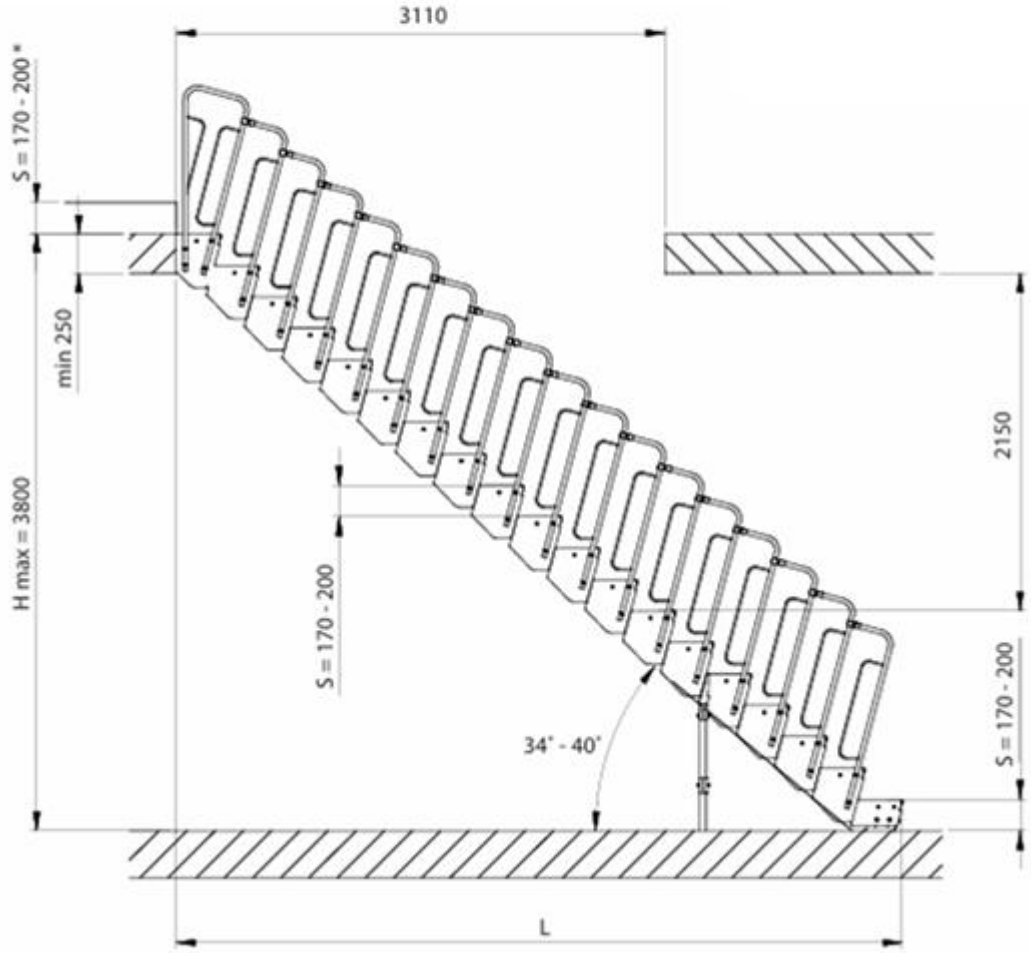
Height of thread assignment

Example calculations.
N =Number of treads
S = Height of treads
Dimension S is smoothly adjusted in range from 170 mm to 200 mm. All dimensions are in mm.

$$H = 1500 \text{ mm}$$

$$N = 8$$

$$S = \frac{1500}{8} \approx 187{,}5 \text{ mm}$$

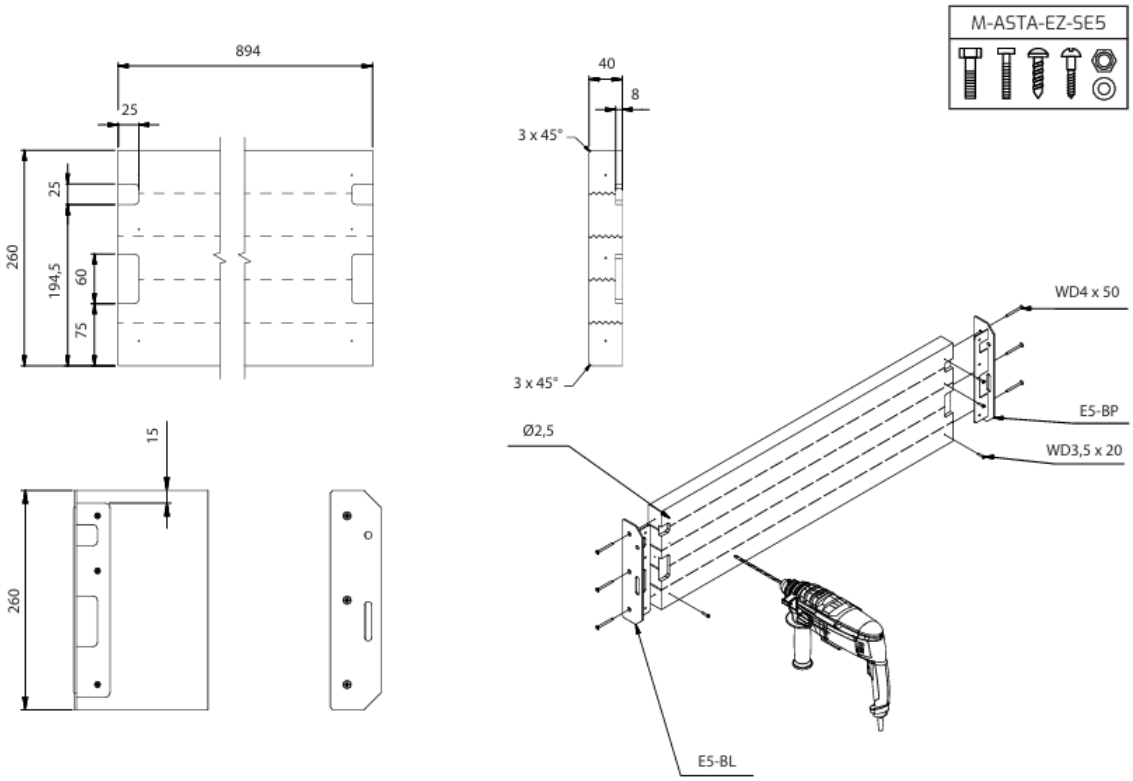


The above example is using ASTA-UL4 and ASTA-UL5 brackets.

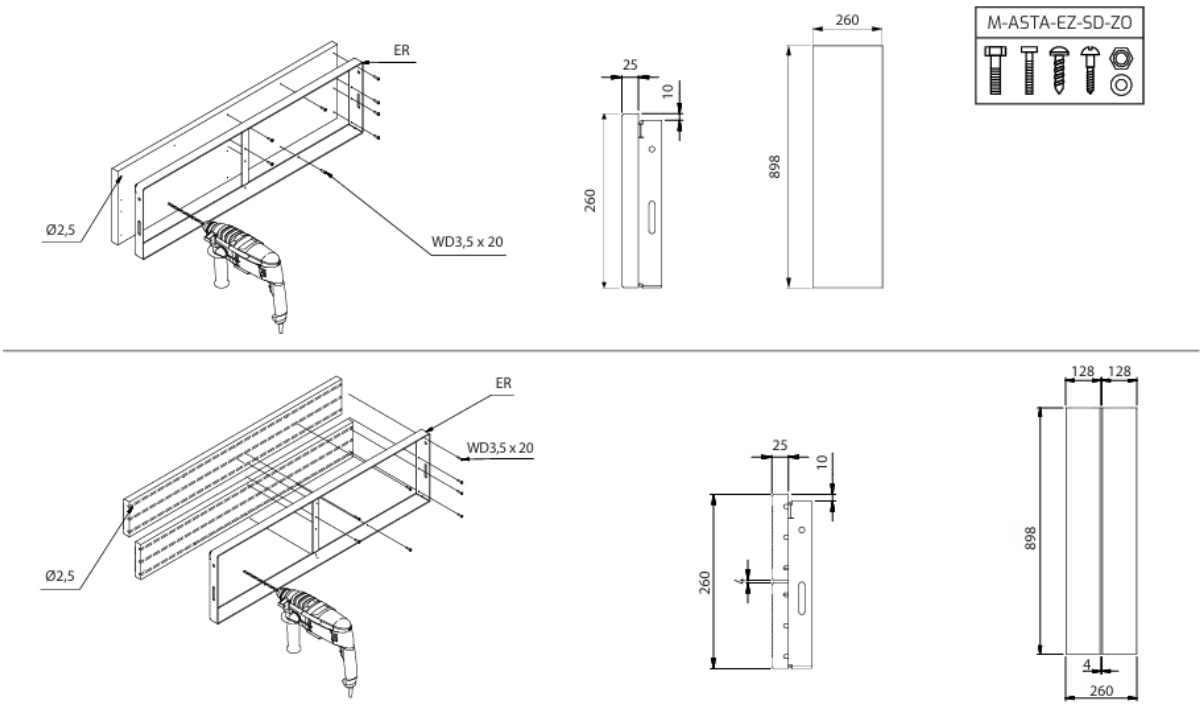
H	L	N
340 – 400	530 – 522	2
510 – 600	779 – 762	3
680 – 800	1.027 – 1.003	4
850 – 1.000	1.276 – 1.244	5
1.020 – 1.200	1.525 – 1.485	6
1.190 – 1.400	1.774 – 1.725	7
1.360 – 1.600	2.022 – 1.966	8
1.530 – 1.800	2.271 – 2.207	9
1.700 – 2.000	2.520 – 2.447	10
1.870 – 2.200	2.769 – 2.688	11
2.040 – 2.400	3.014 – 2.929	12
2.210 – 2.600	3.266 – 3.170	13
2.380 – 2.800	3.515 – 3.410	14
2.550 – 3.000	3.770 – 3.657	15
2.720 – 3.200	4.020 – 3.900	16
2.890 – 3.400	4.270 – 4.140	17
3.060 – 3.600	4.250 – 4.381	18
3.230 – 3.800	4.770 – 4.622	19

Assembly

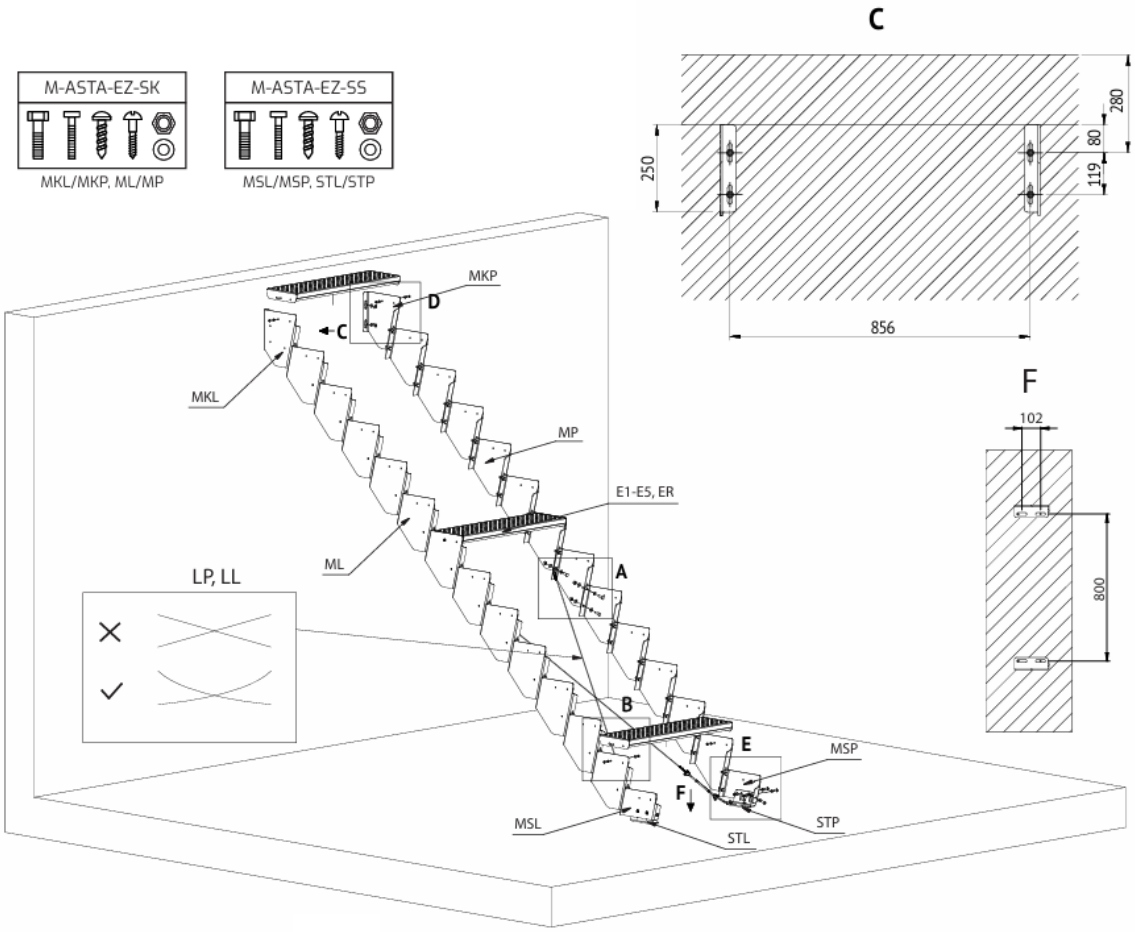
Wooden load bearing steps (variant E5).

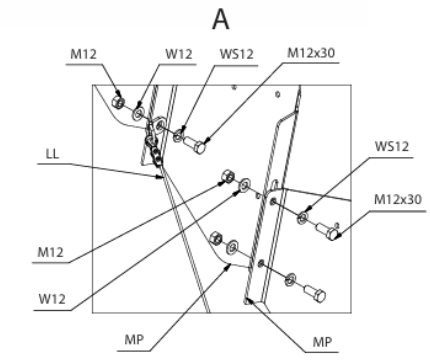


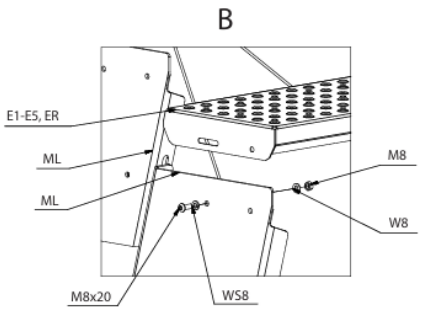
Wooden steps assembled on steel substructure (variant E2, E3, ER).

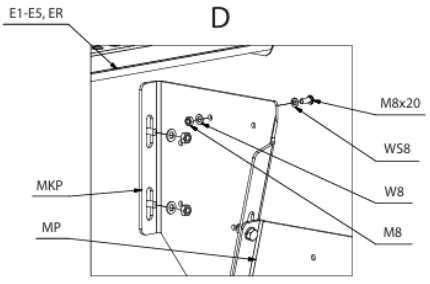


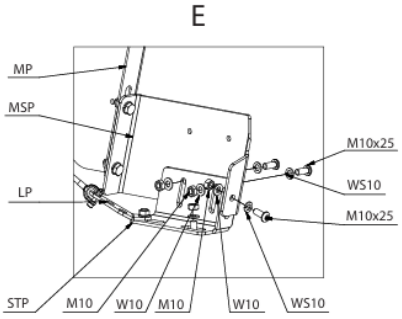
Stairs flight assembly.



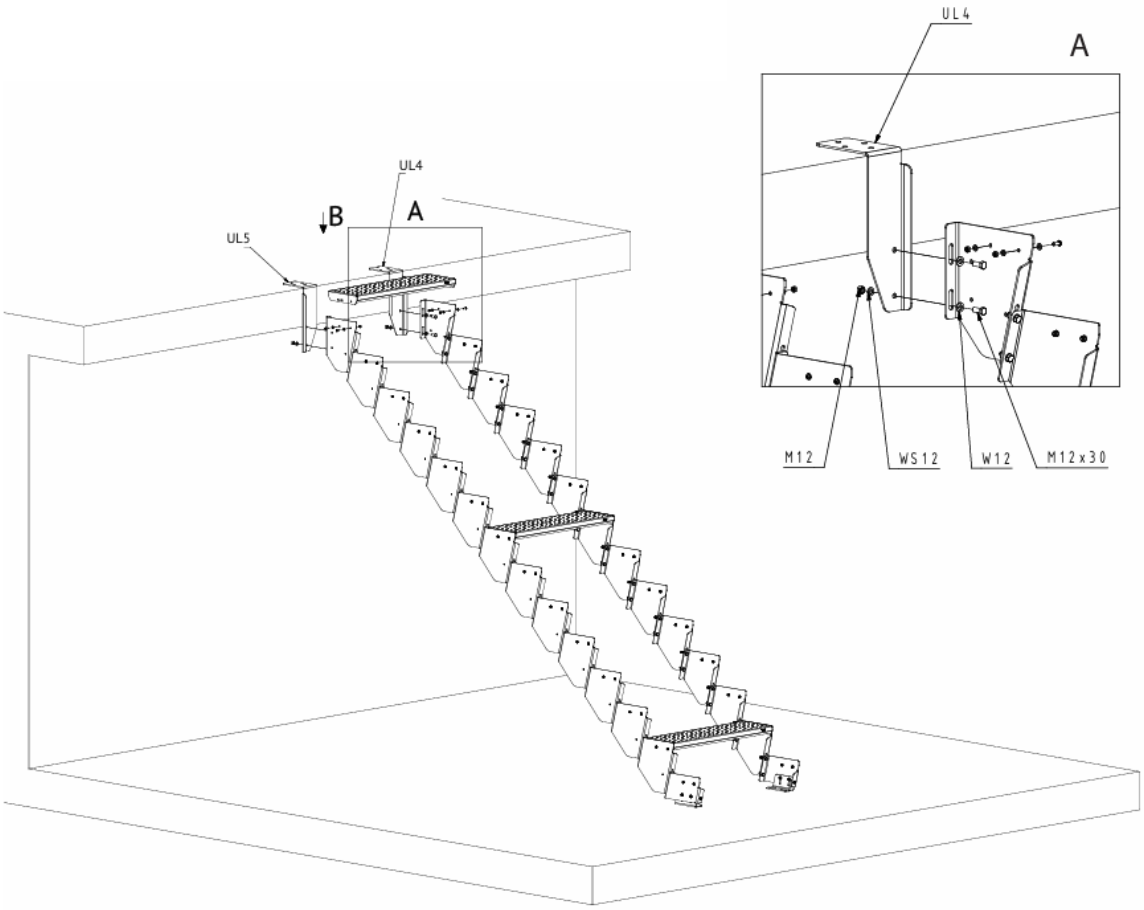




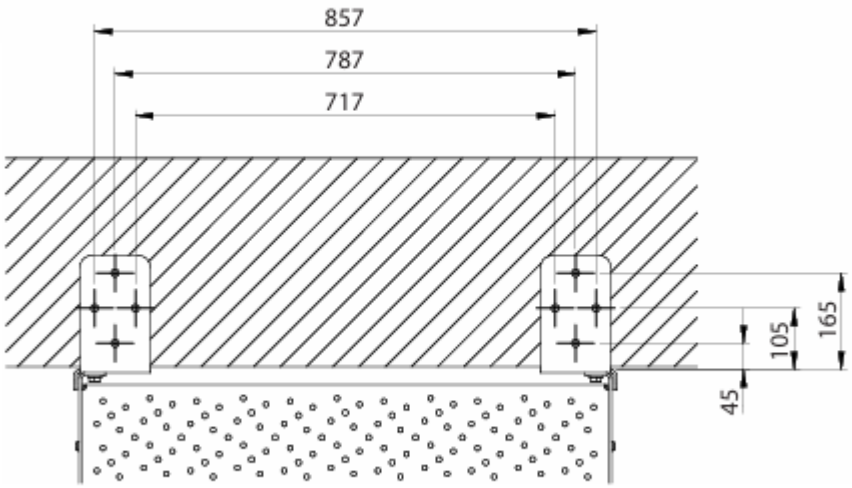




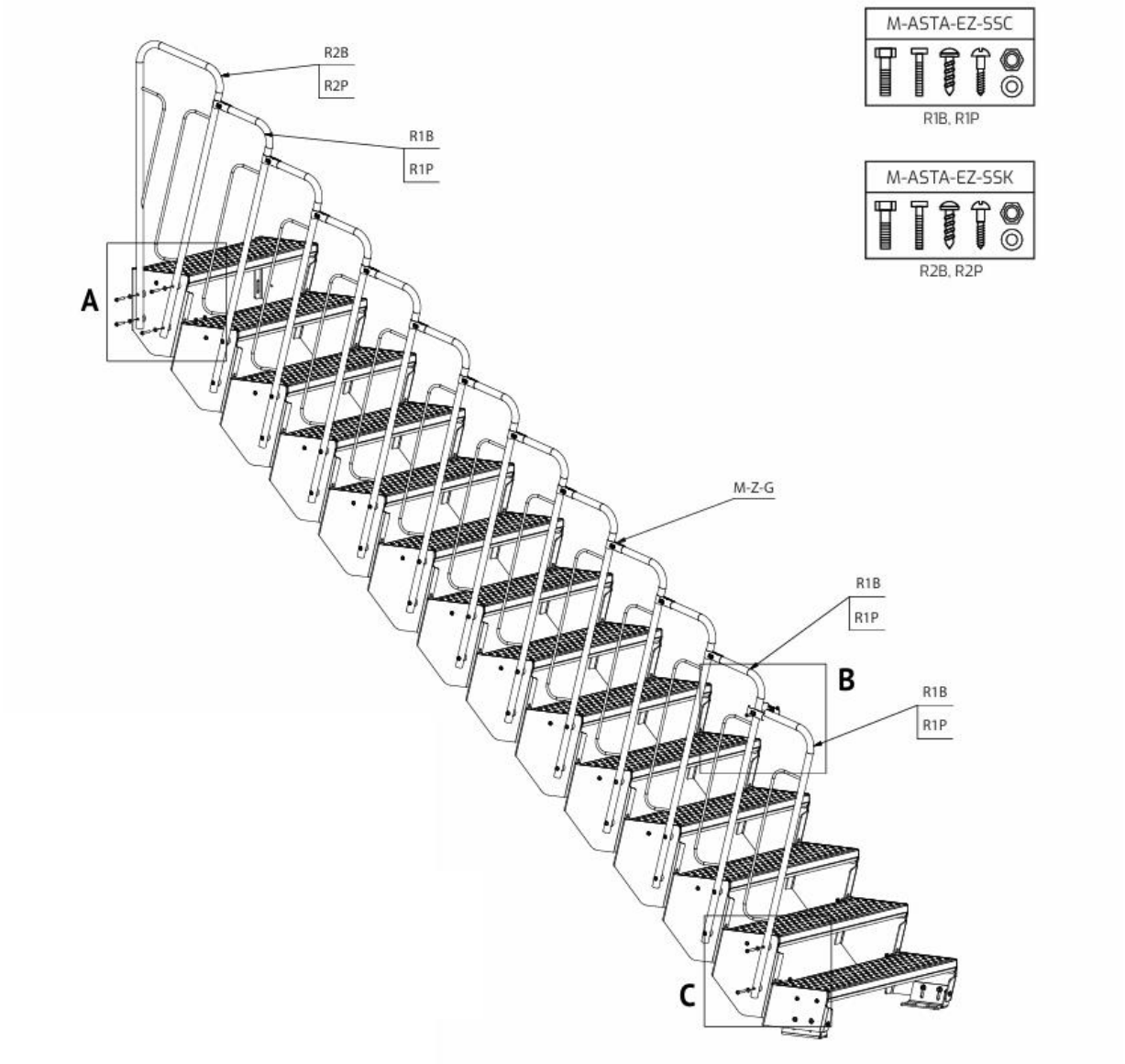
Optional stairs flight assembly with use of UL4, UL5 brackets.



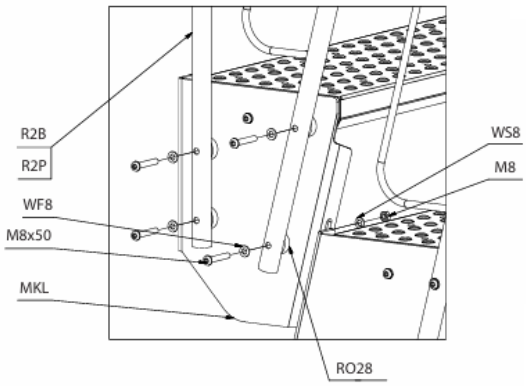
B



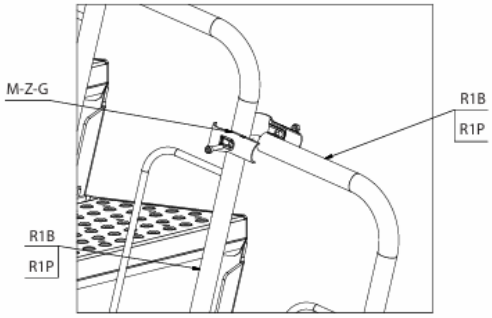
Railing wit hand without filling assembly.



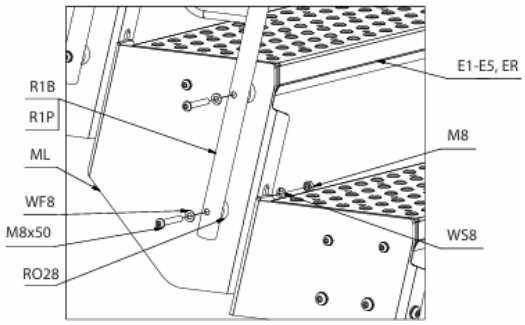
A


R2B
R2P
WF8
M8x50
MKL
WS8
M8
RO28

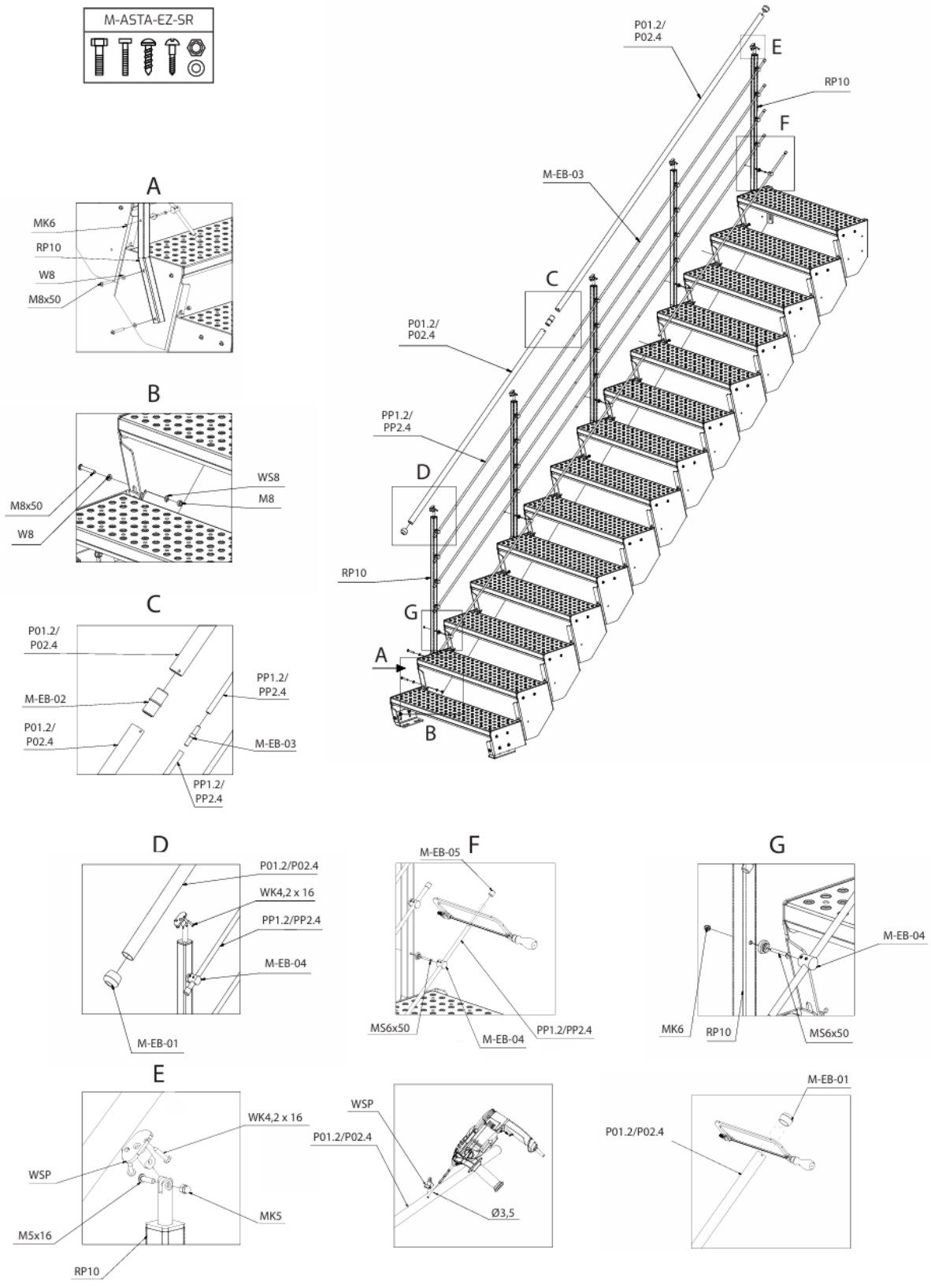
B


M-Z-G
R1B
R1P
R1B
R1P

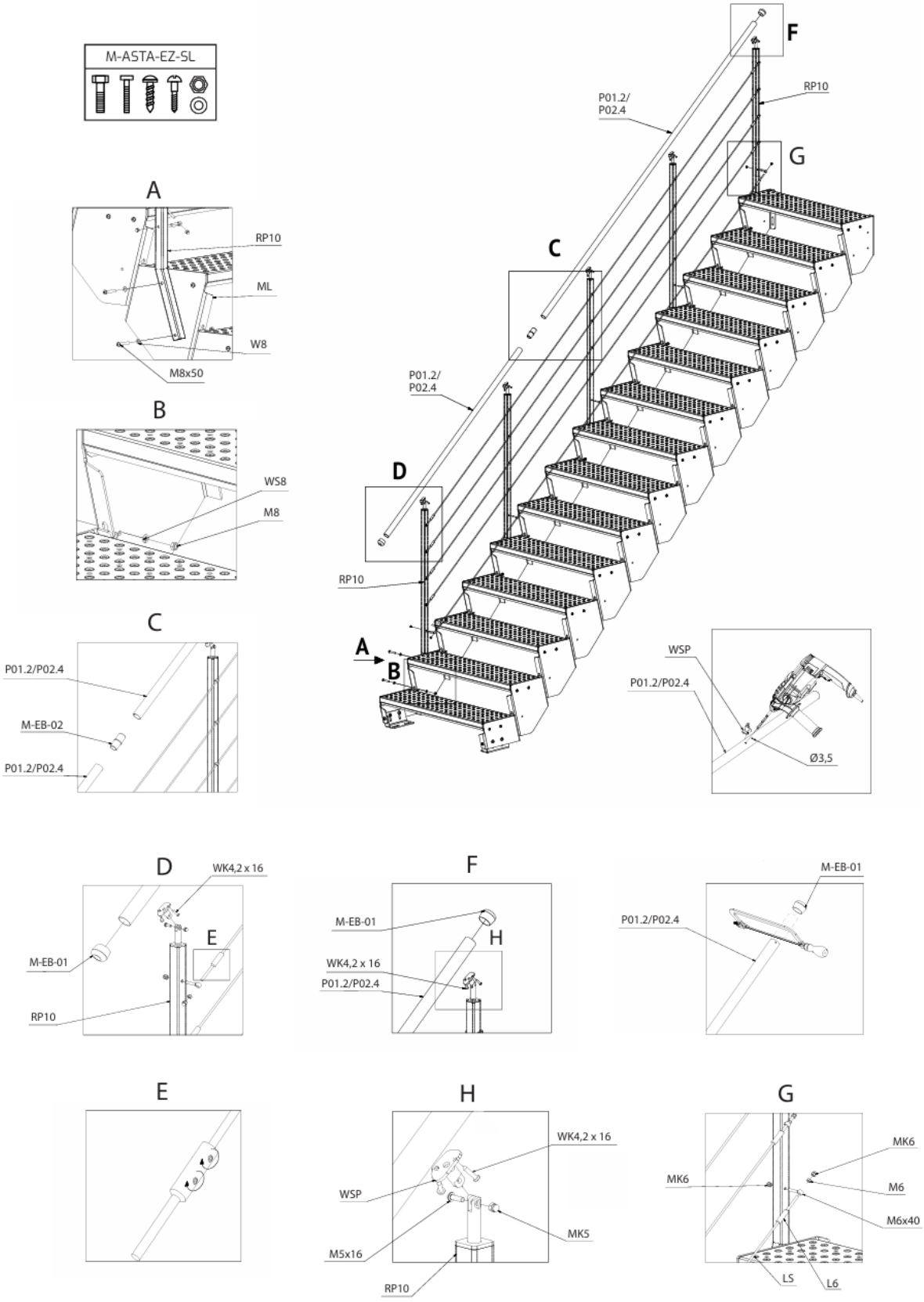
C


R1B
R1P
ML
WF8
M8x50
RO28
E1-E5, ER
M8
WS8

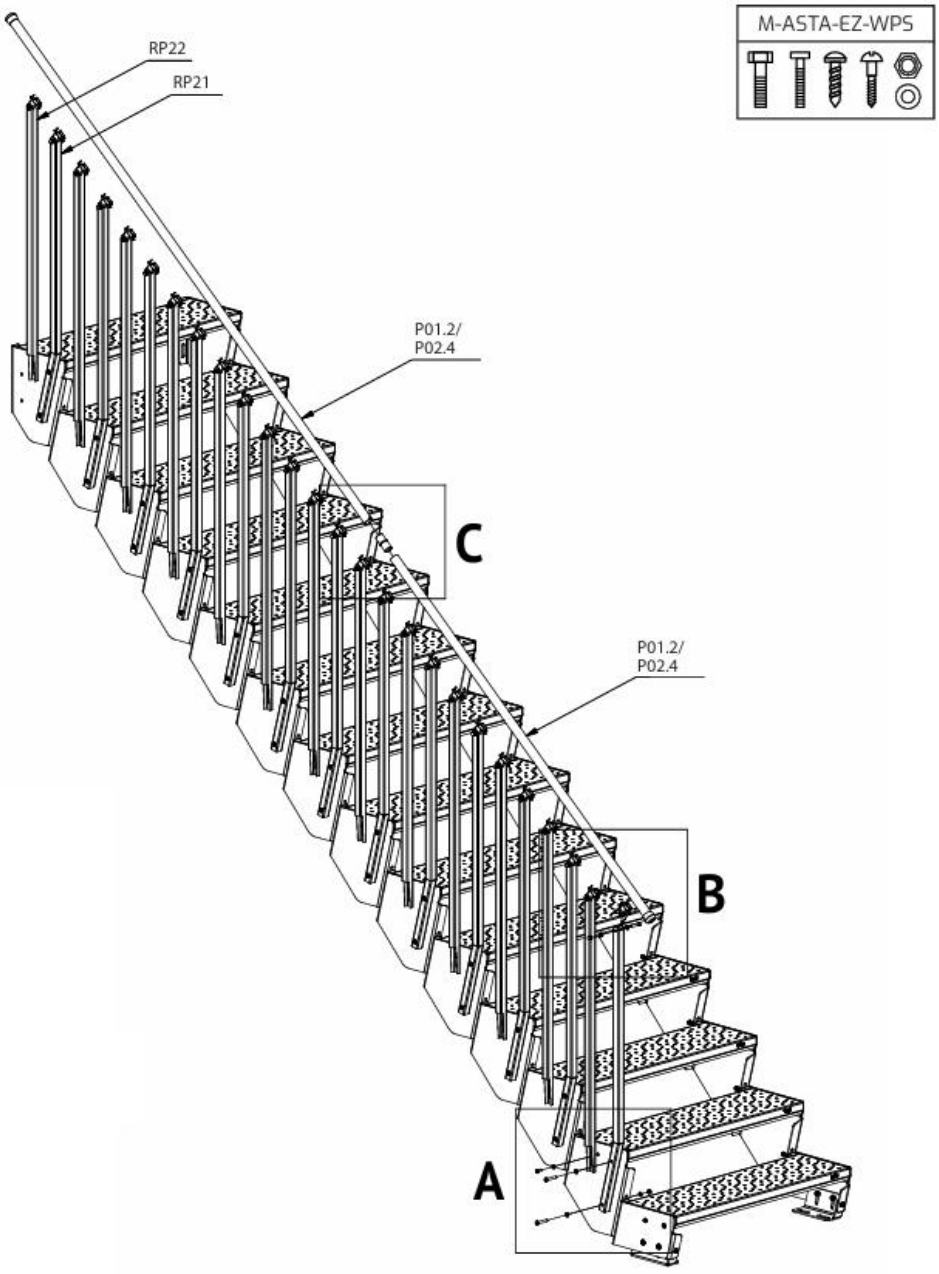
Railing with FI 12 mm tubes assembly.

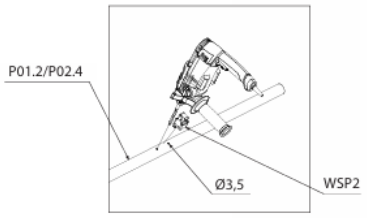


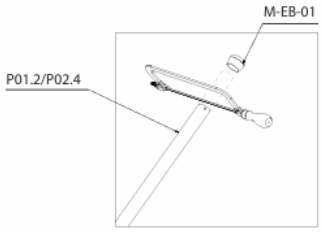
Railing with FI 4 mm lines assembly.

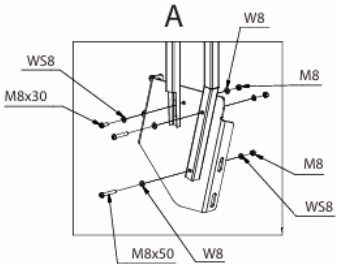


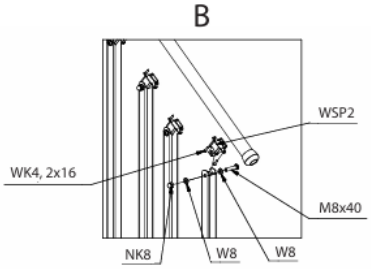
Assembly safety railing.

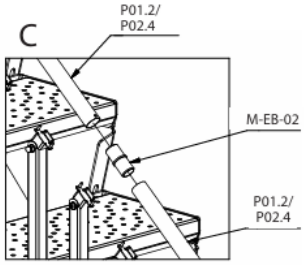



P01.2/P02.4
Ø3,5
WSP2

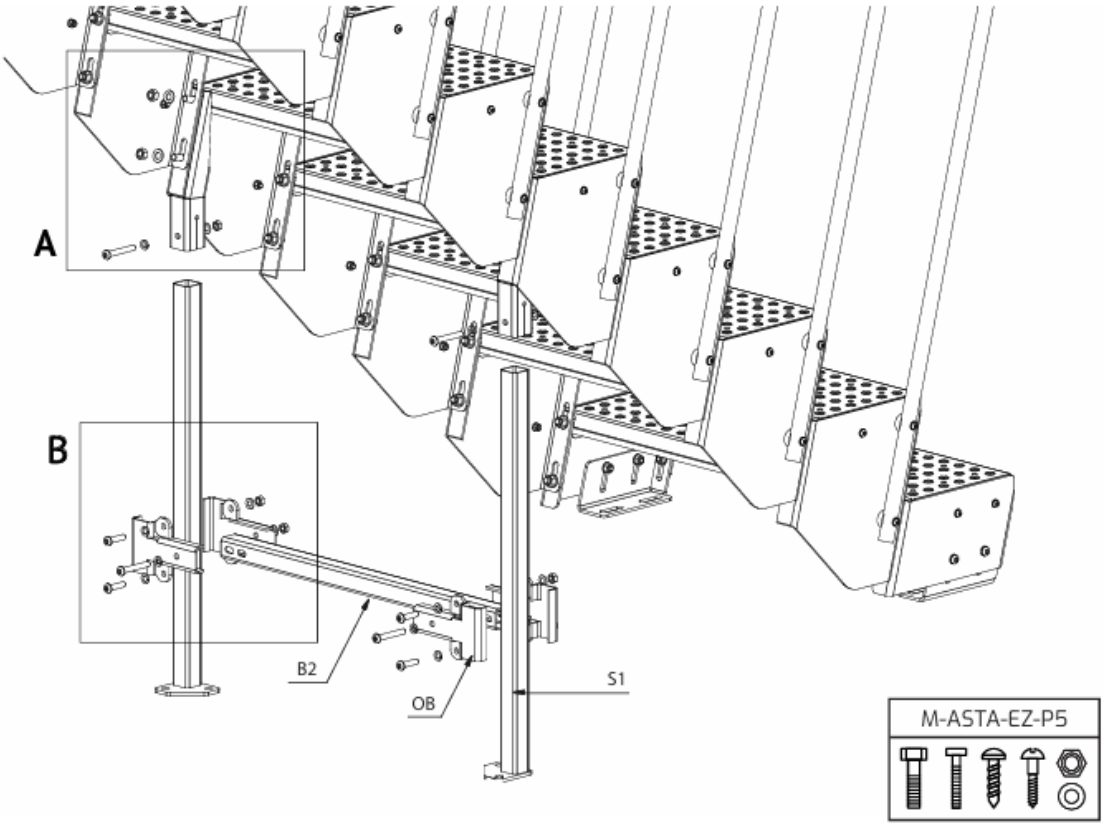

M-EB-01
P01.2/P02.4

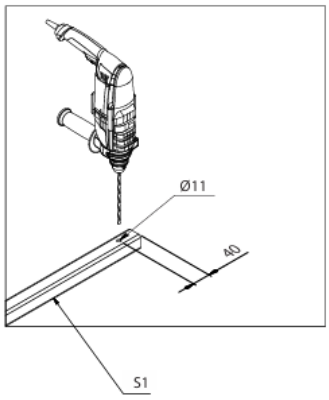

A
W8
WS8
M8
M8x30
M8
WS8
M8x50
W8

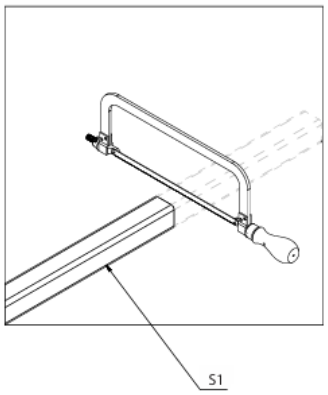

B
WSP2
WK4, 2x16
M8x40
NK8
W8
W8


C
P01.2/
P02.4
M-EB-02
P01.2/
P02.4

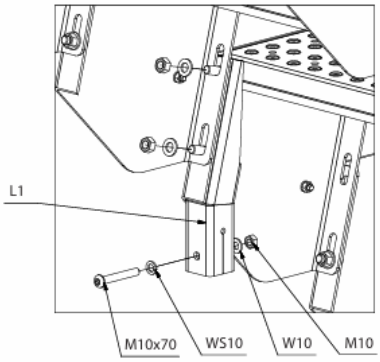
Support assembly (for stairs flight over 14 steps).



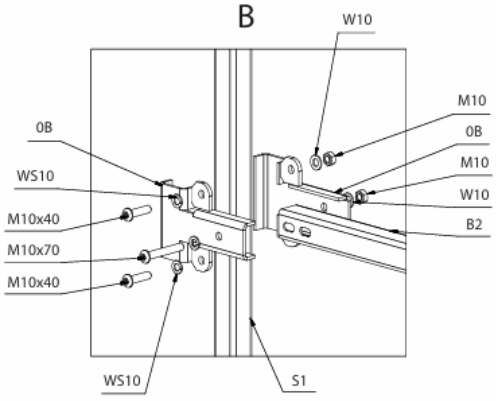

Ø11
40
S1


S1

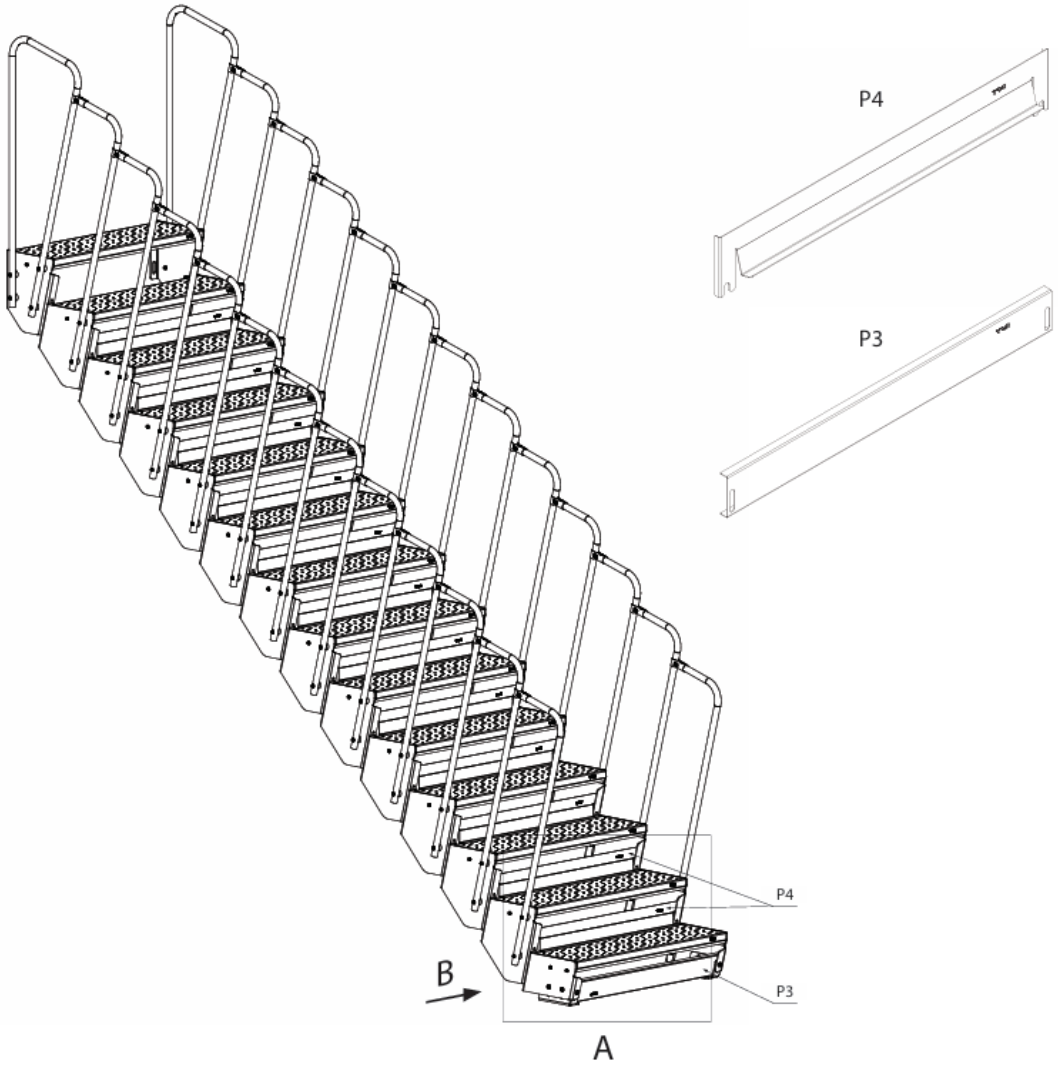
A


L1
M10x70
WS10
W10
M10

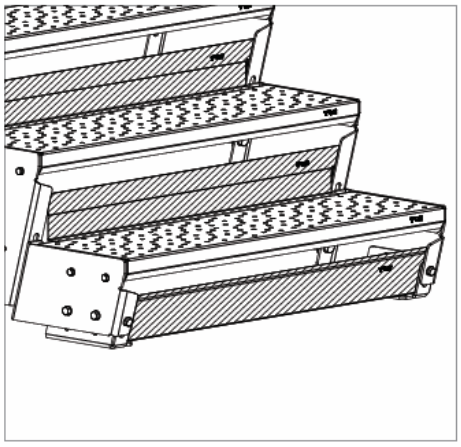
B


W10
M10
0B
0B
WS10
M10
W10
M10x40
B2
M10x70
M10x40
WS10
S1

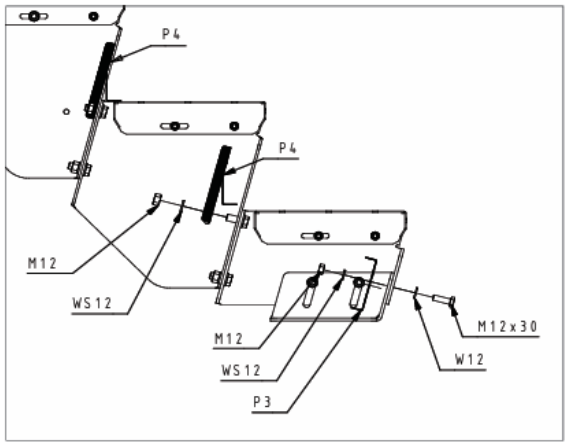
Riser plate assembly.



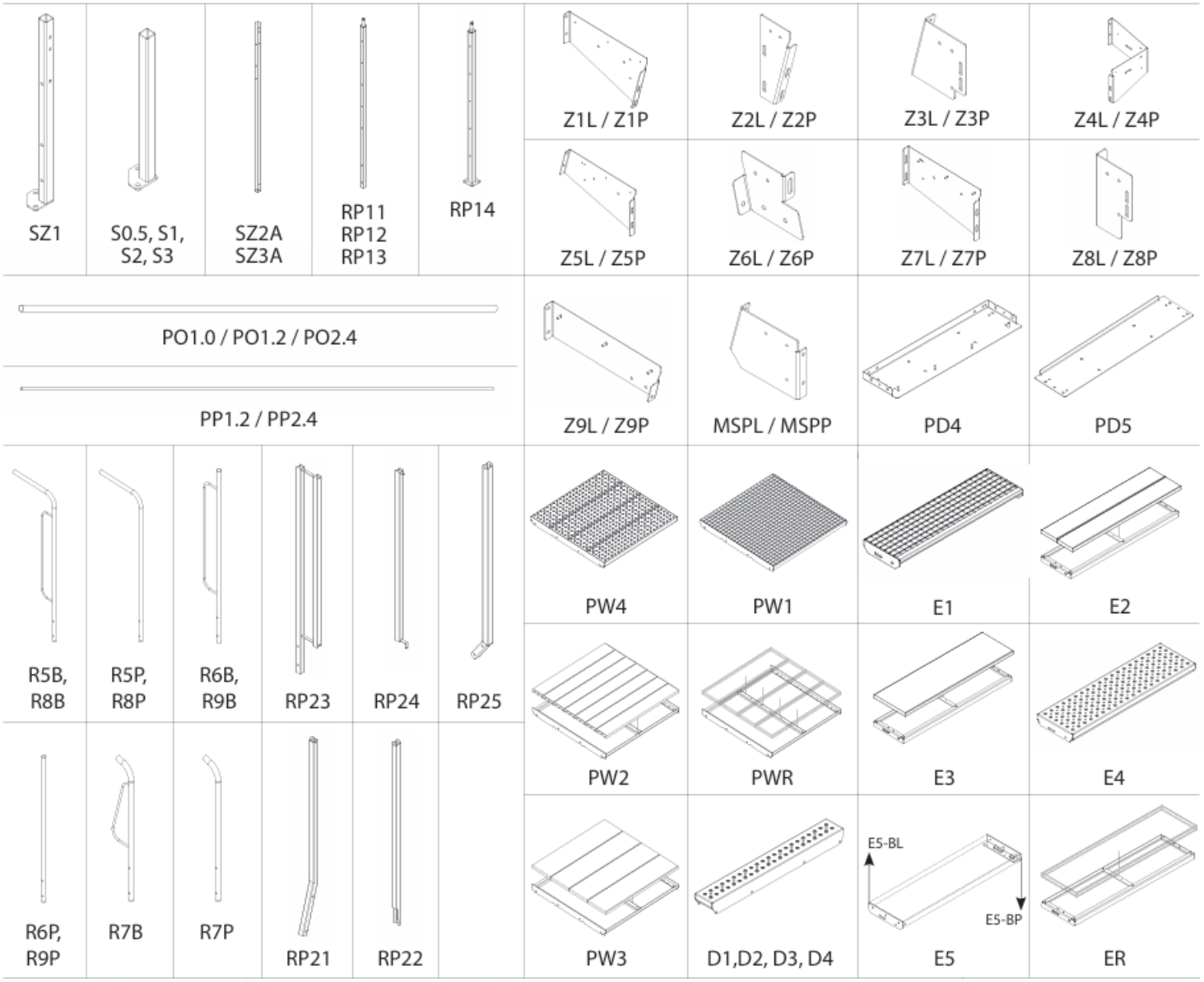
A

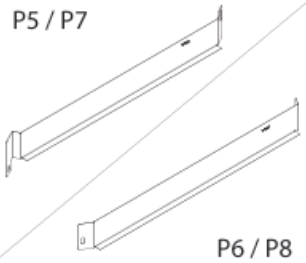
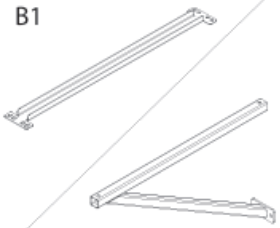
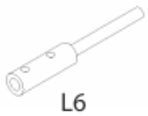
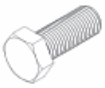
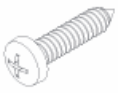


B



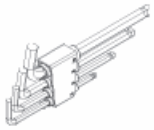
Parts


SZ1
S0.5, S1, S2, S3
SZ2A SZ3A
RP11 RP12 RP13
RP14
Z1L / Z1P
Z2L / Z2P
Z3L / Z3P
Z4L / Z4P
Z5L / Z5P
Z6L / Z6P
Z7L / Z7P
Z8L / Z8P
PO1.0 / PO1.2 / PO2.4
PP1.2 / PP2.4
Z9L / Z9P
MSPL / MSPP
PD4
PD5
R5B, R8B
R5P, R8P
R6B, R9B
RP23
RP24
RP25
PW4
PW1
E1
E2
PW2
PWR
E3
E4
R6P, R9P
R7B
R7P
RP21
RP22
PW3
D1,D2, D3, D4
E5-BL
E5-BP
E5
ER

 M-Z-G-A	 WSP	 LS	 L4	 XL1, XL2	 P5 / P7 P6 / P8	 B1 WP
 M-Z-G	 WSP2	 M-EB-04	 SG	 L6		
 M5 x 16 M8 x 20 M8 x 25 M8 x 30 M8 x 40 M8 x 50 M10 x 25 M10 x 40 M10 x 70 M12 x 30	 M8 x 20 M8 x 25 M8 x 30 M8 x 40 M8 x 50 M10 x 30 M10 x 60 M10 x 70 M12 x 30	 MS6 x 50	 M6 x 40	 M6, M8, M10, M12	 MK5 MK6	 W8, W10, W12	 WS8, WS10 WS12	 WF8	 WP8
		 WK4,2 x 16	 WD4 x 50 WD3,5 x 20	 ZW-28	 M-EB-01	 RO28	 ZW-40	 M-EB-05	

Fastening materials

8, 10, 13, 17, 19 x 2

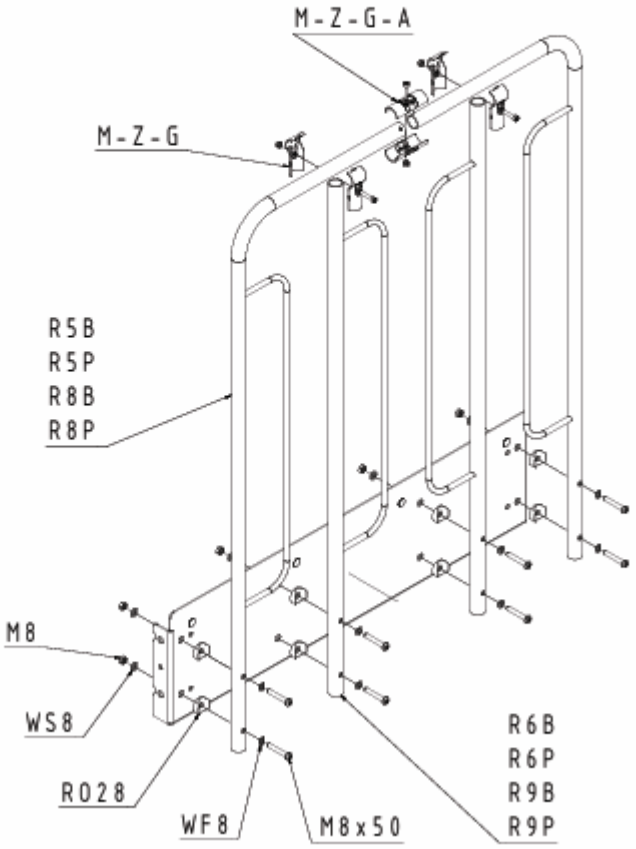


2, 3, 5, 6

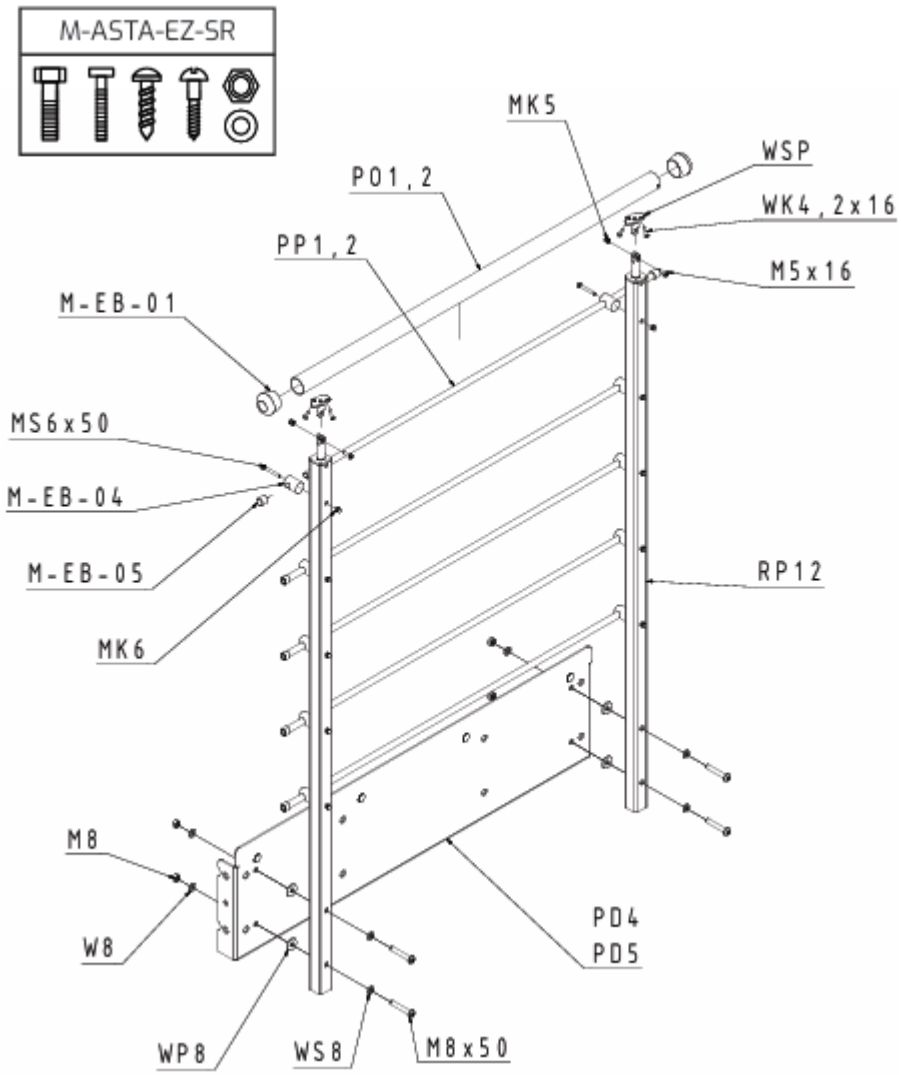
14 mm, 11 mm,
3,5 mm, 2,5 mm

Variants

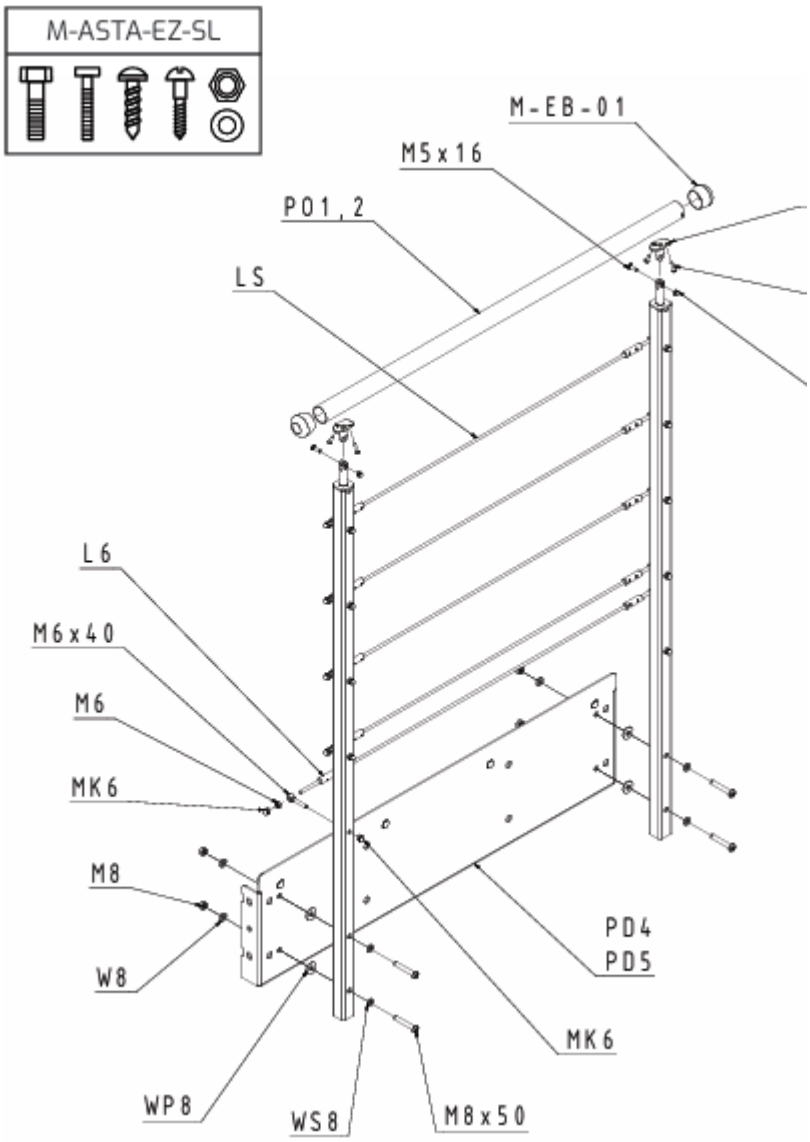
Railing with modular balustrades.



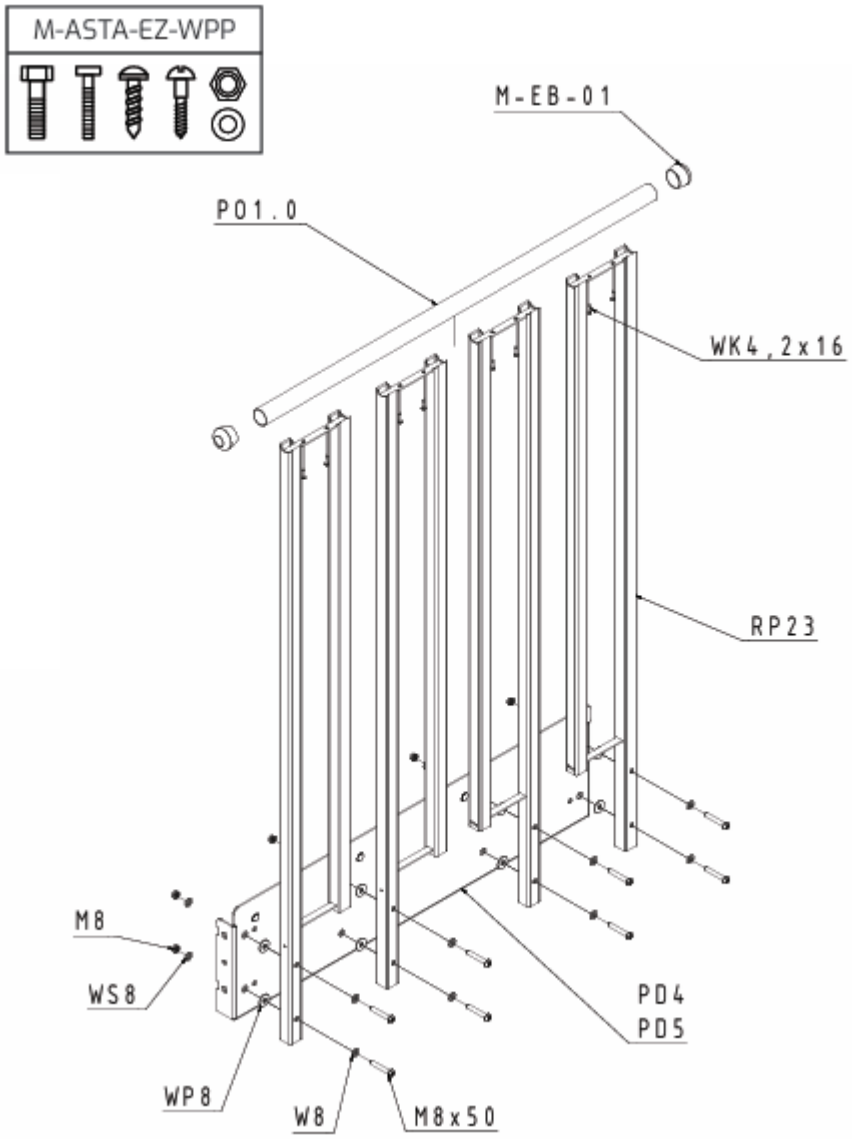
Railing with FI 12 mm tubes.



Railing with FI 4 mm lines.



Safety railing.



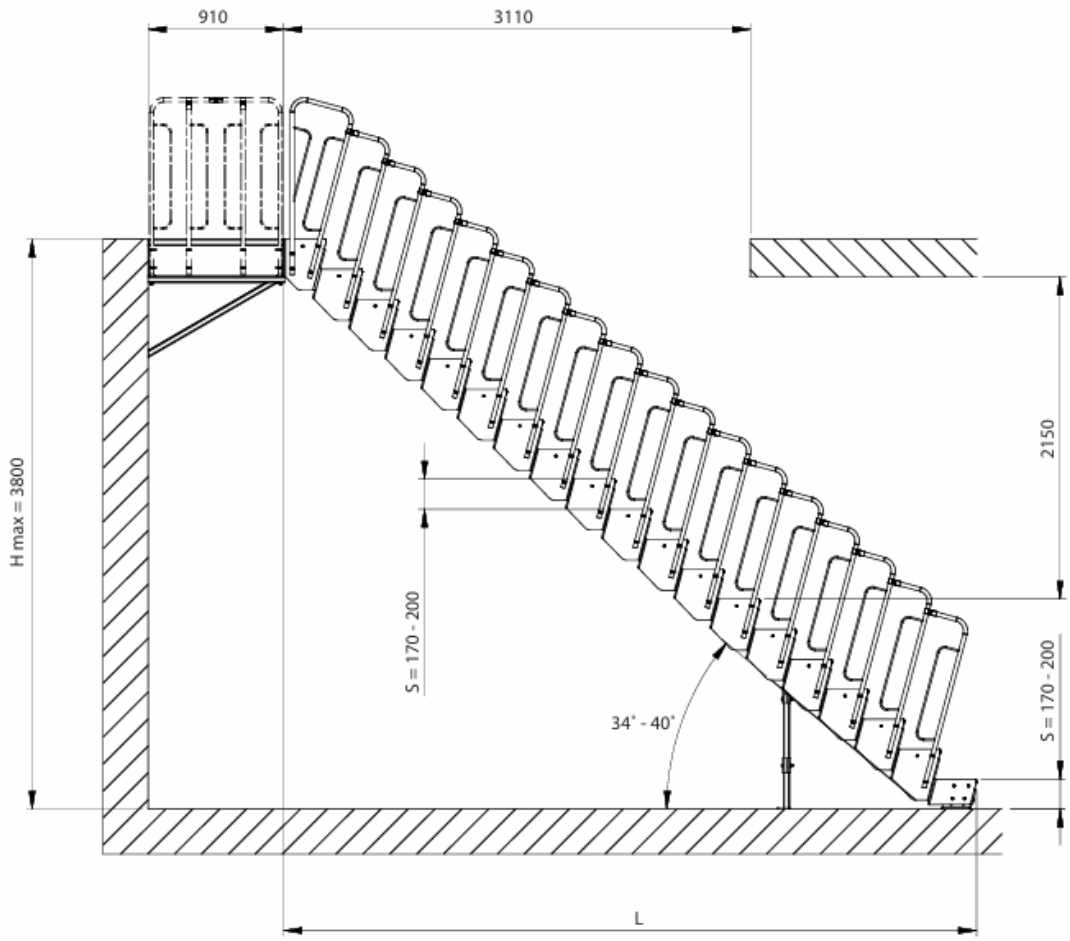
Height of thread assignment

Example calculations.
N =Number of treads
S = Height of treads
Dimension S is smoothly adjusted in range from 170 mm to 200 mm. All dimensions are in mm.

$$H = 1500 \text{ mm}$$

$$N = 8$$

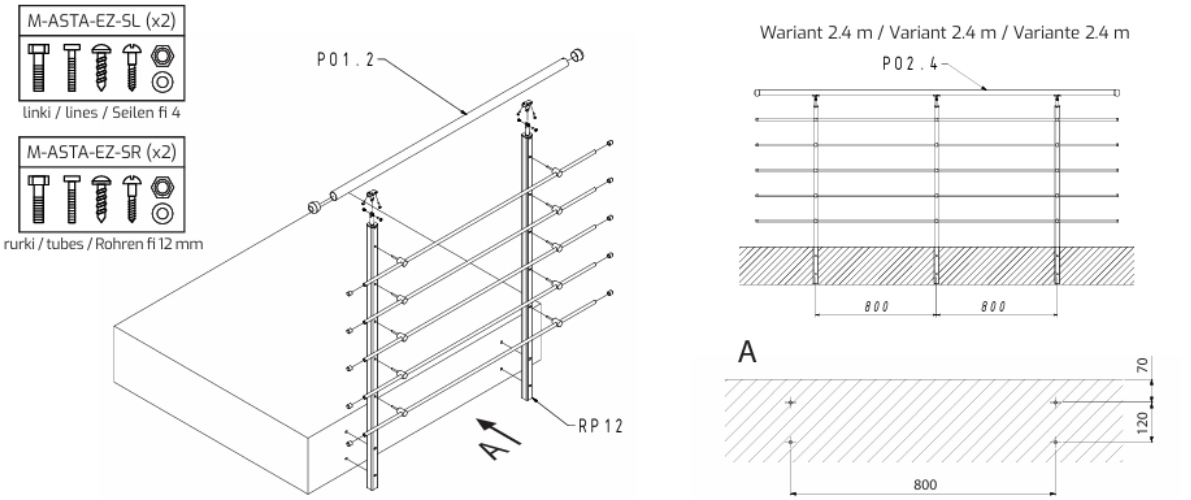
$$S = \frac{1500}{8} \approx 187{,}5 \text{ mm}$$

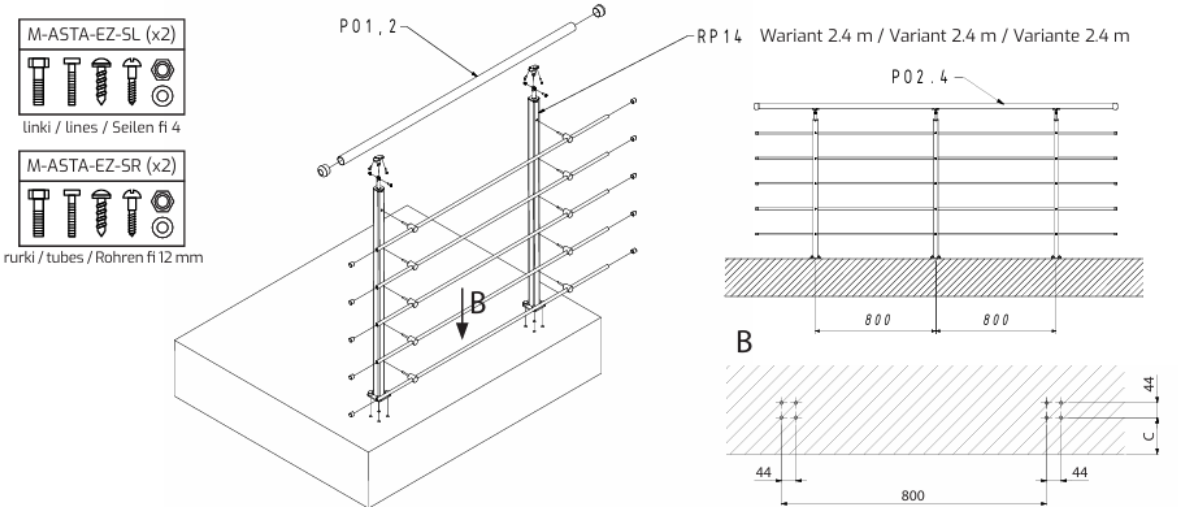


H	L	N
340 – 400	530 – 522	2
510 – 600	779 – 762	3
680 – 800	1.027 – 1.003	4
850 – 1.000	1.276 – 1.244	5
1.020 – 1.200	1.525 – 1.485	6
1.190 – 1.400	1.774 – 1.725	7
1.360 – 1.600	2.022 – 1.966	8
1.530 – 1.800	2.271 – 2.207	9
1.700 – 2.000	2.520 – 2.447	10
1.870 – 2.200	2.769 – 2.688	11
2.040 – 2.400	3.014 – 2.929	12
2.210 – 2.600	3.266 – 3.170	13
2.380 – 2.800	3.515 – 3.410	14
2.550 – 3.000	3.770 – 3.657	15
2.720 – 3.200	4.020 – 3.900	16
2.890 – 3.400	4.270 – 4.140	17
3.060 – 3.600	4.250 – 4.381	18
3.230 – 3.800	4.770 – 4.622	19

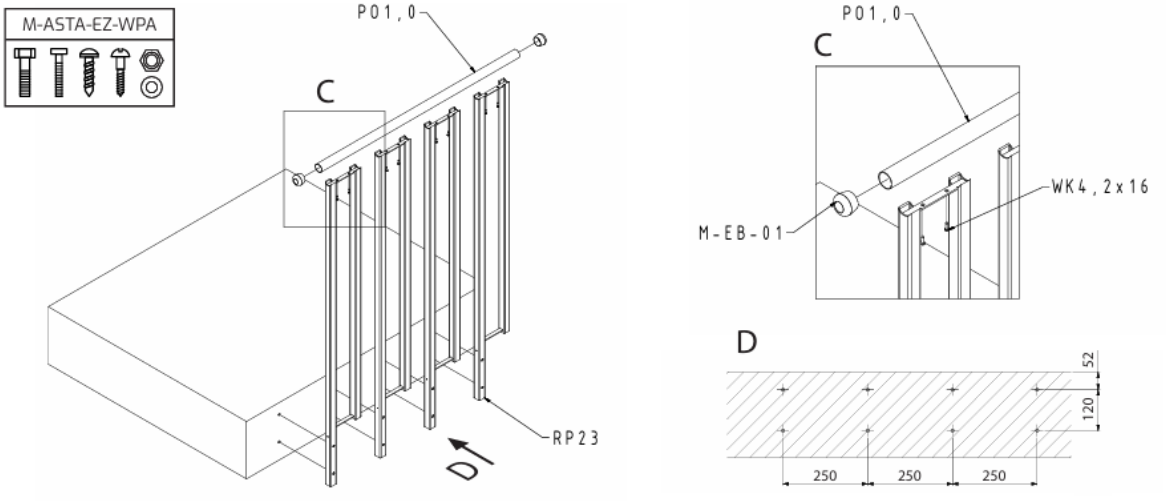
Assembly

Balcony balustrade assembly.



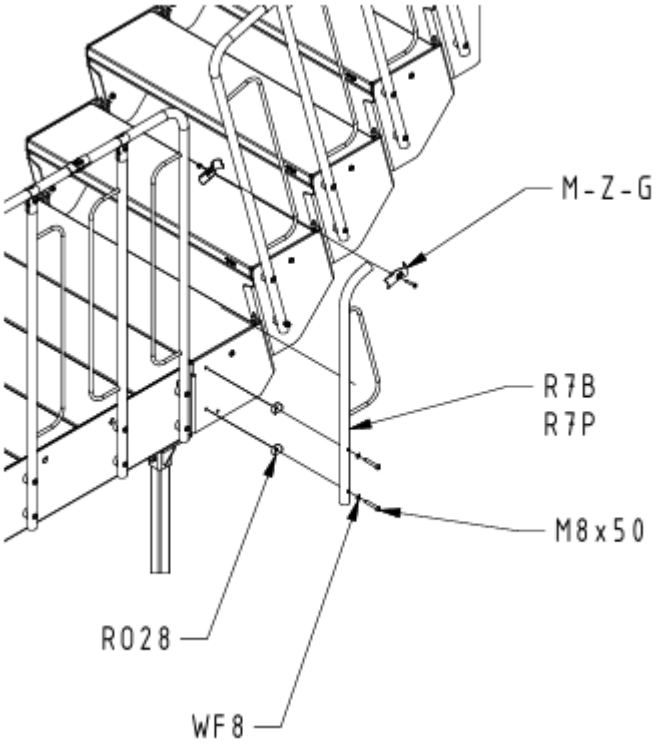


C – min. distance according tot he anchor manufacturer.

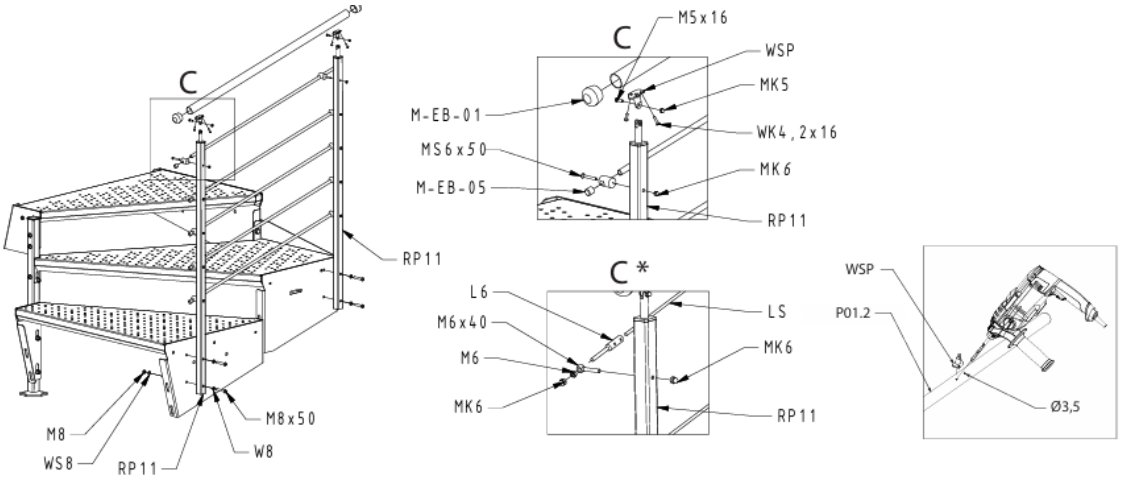


Railing assembly.

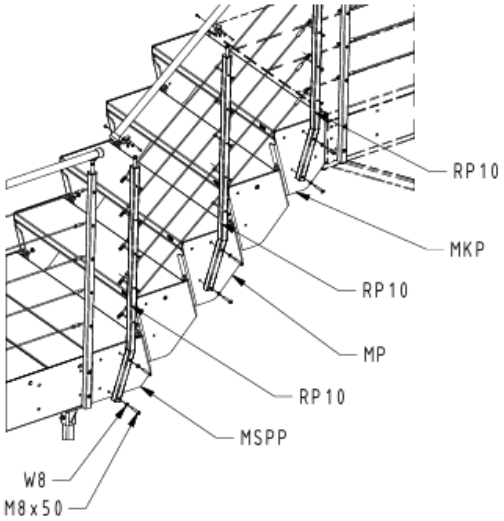
Railing with modular balustrades.

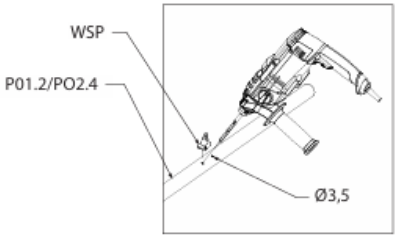


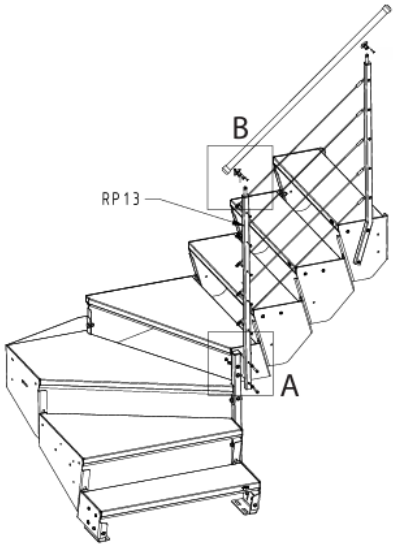
Railing with FI 12 mm tubes (C) & railing with FI 4 mm lines (C*)

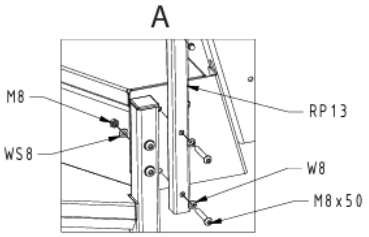


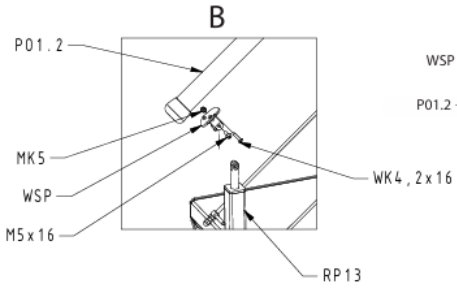
Railing with FI 4 mm lines.

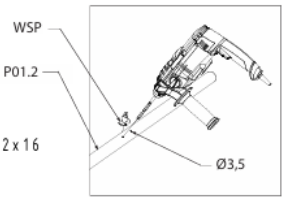




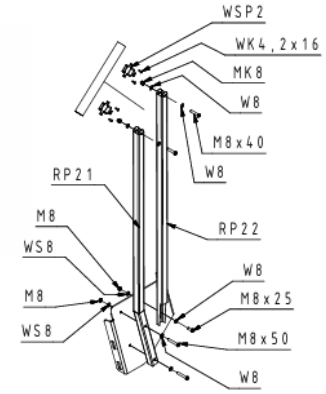


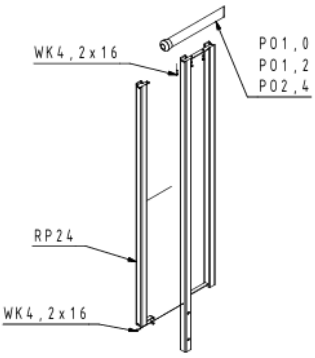


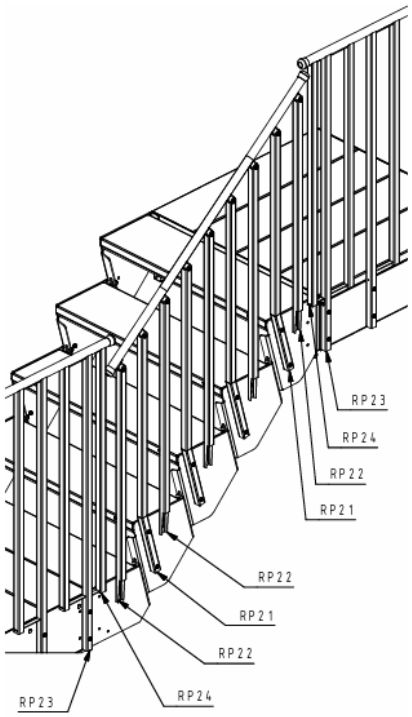


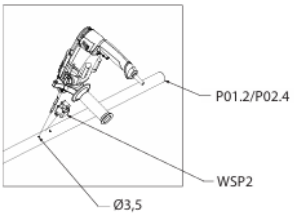


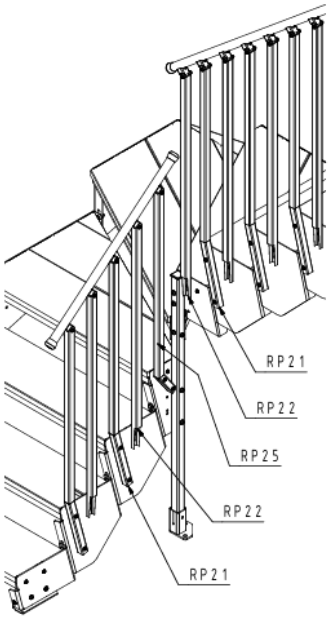
Safety railing.





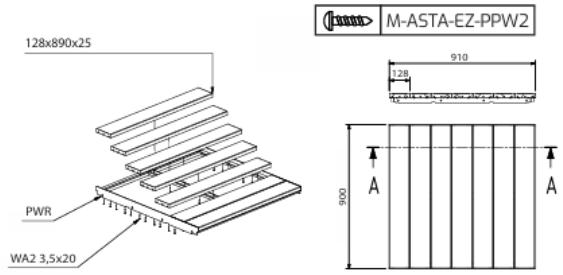


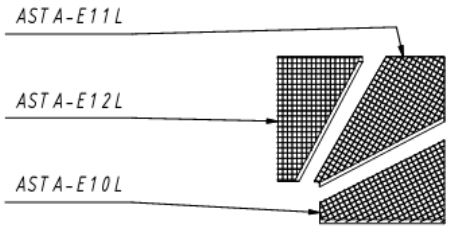


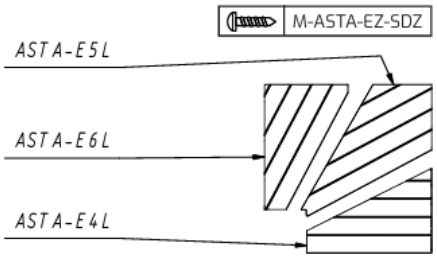


Wariants and assembly of steps.

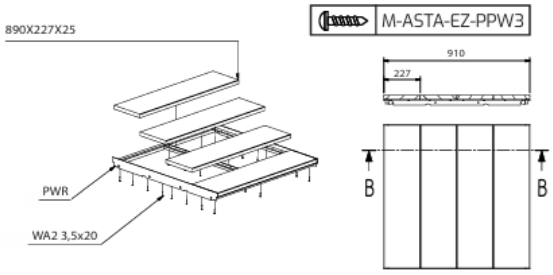
Outdoor non-slip board.

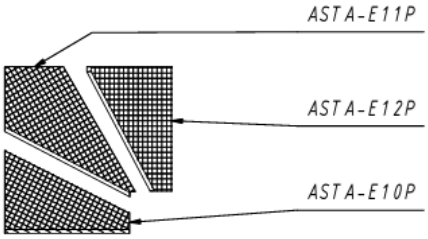


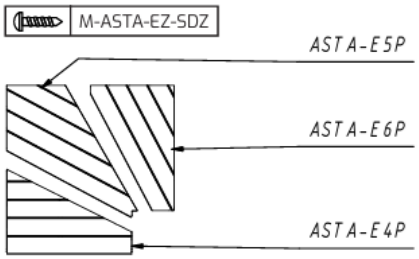




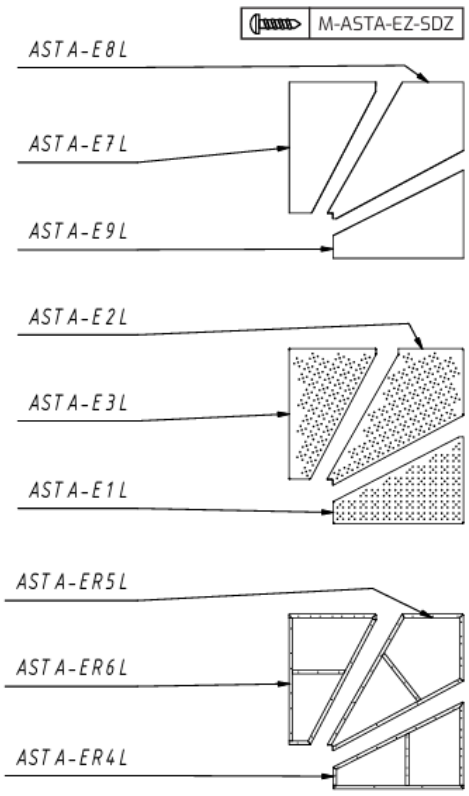
Indoor laminated timber.



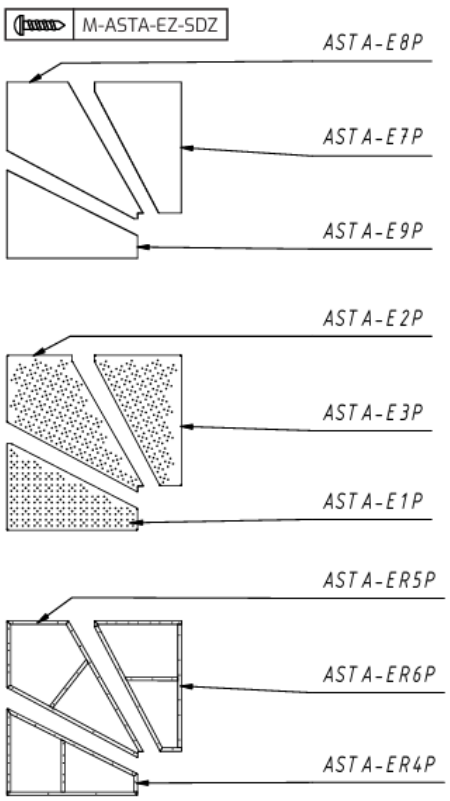




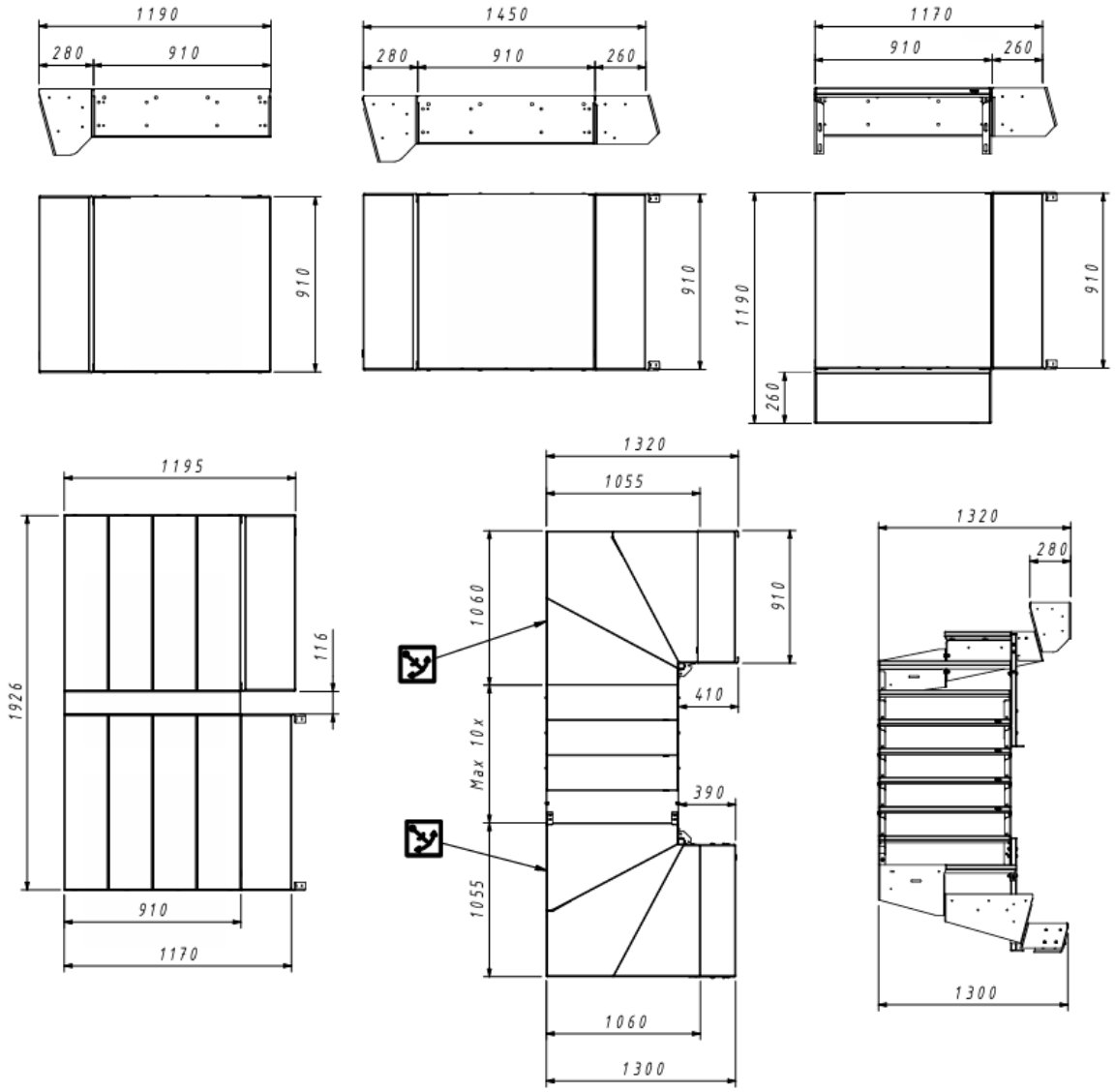
Outdoor non-slip board.



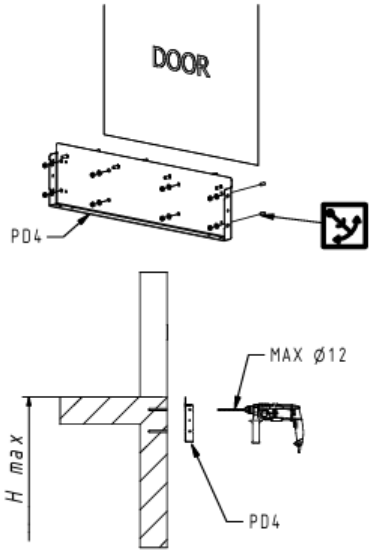
Indoor laminated timber.

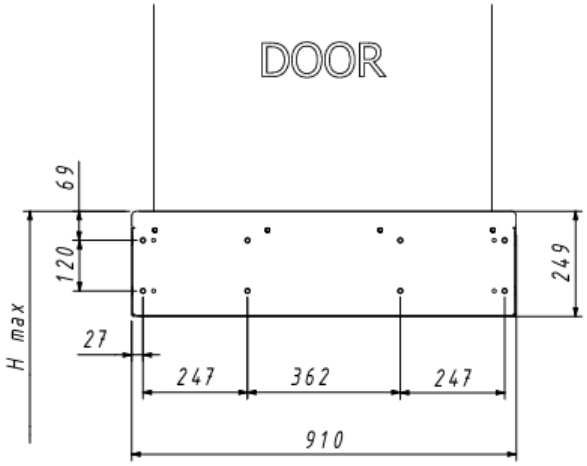


Dimensions of Asta system.



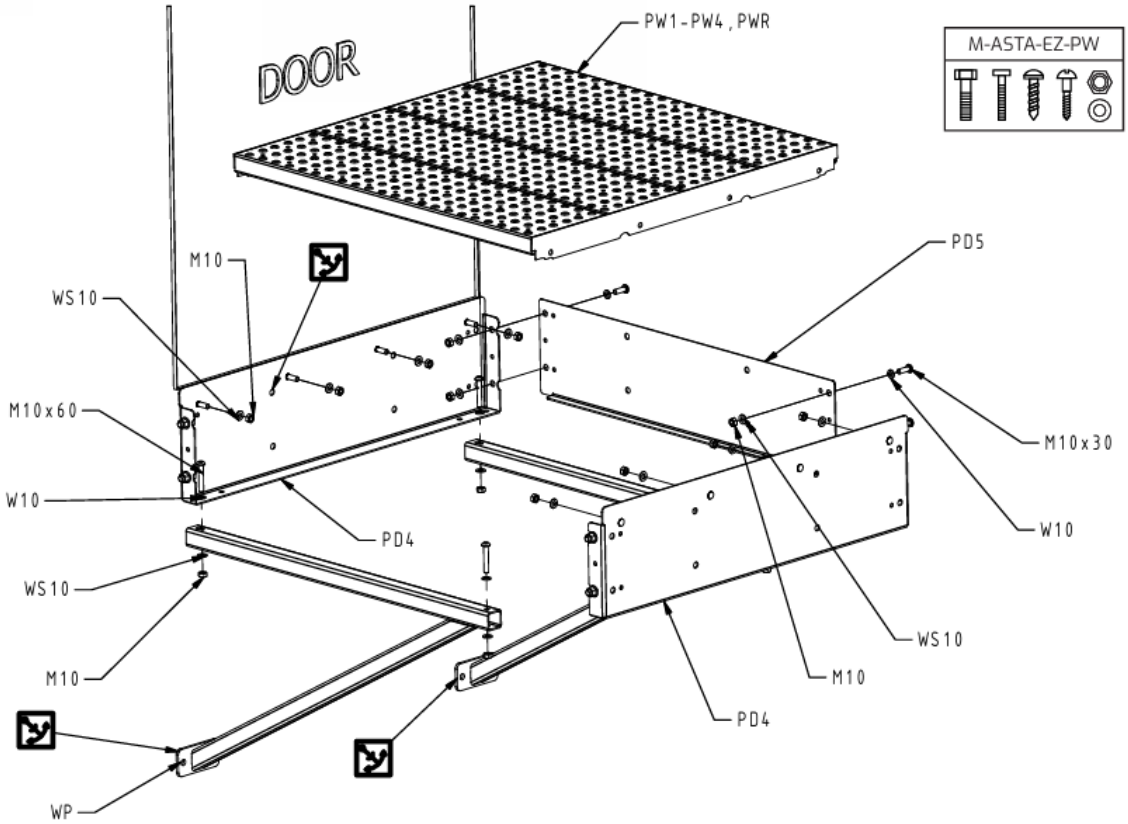
Platform anchoring.



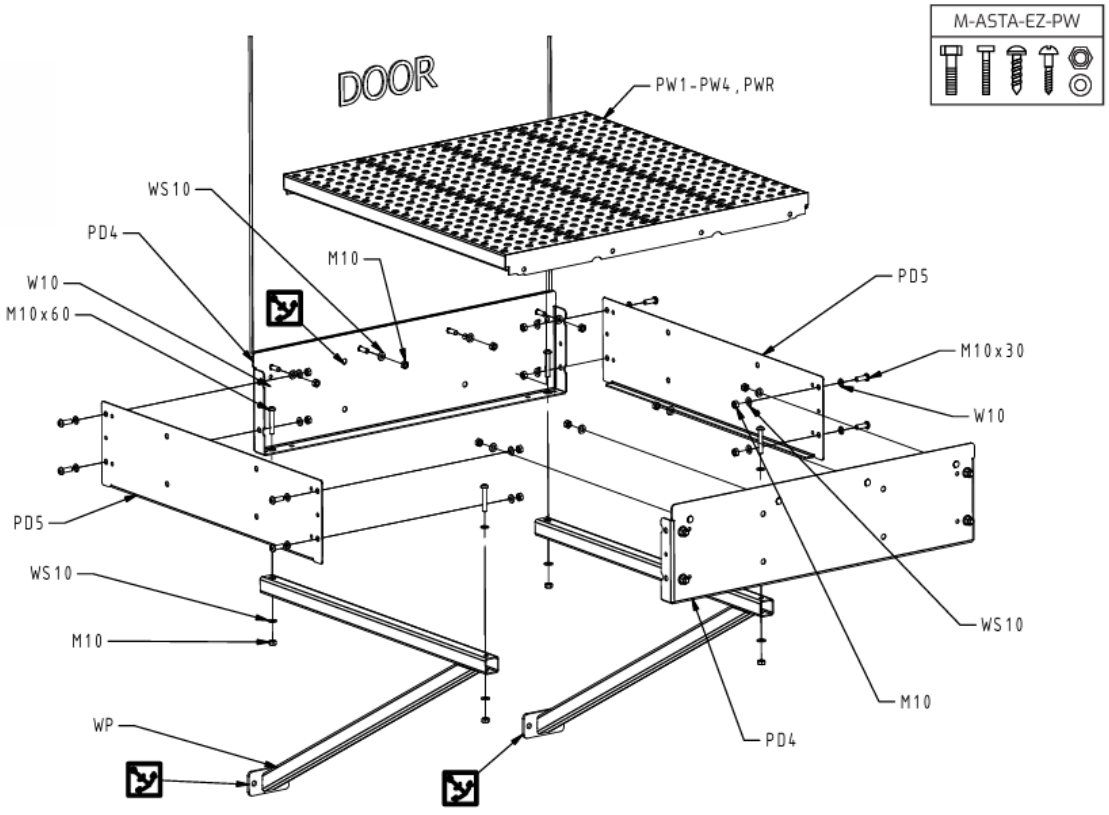


Achor point.

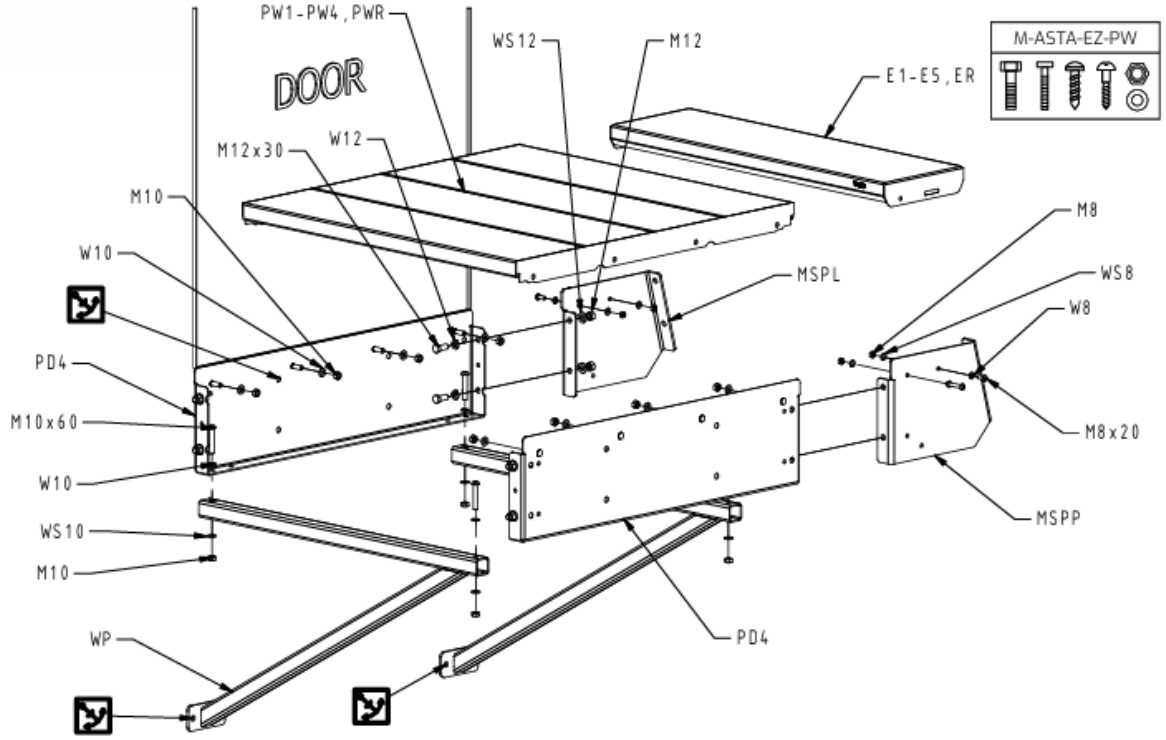
Variant 1.



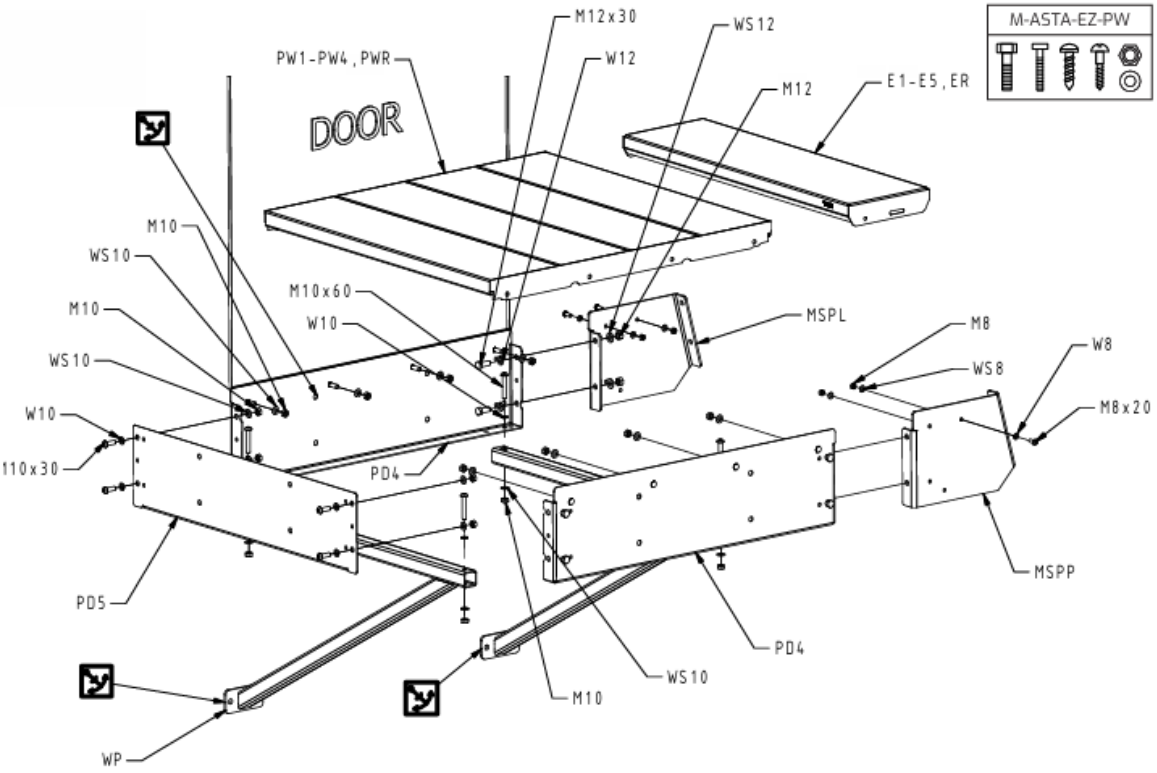
Variant 2.



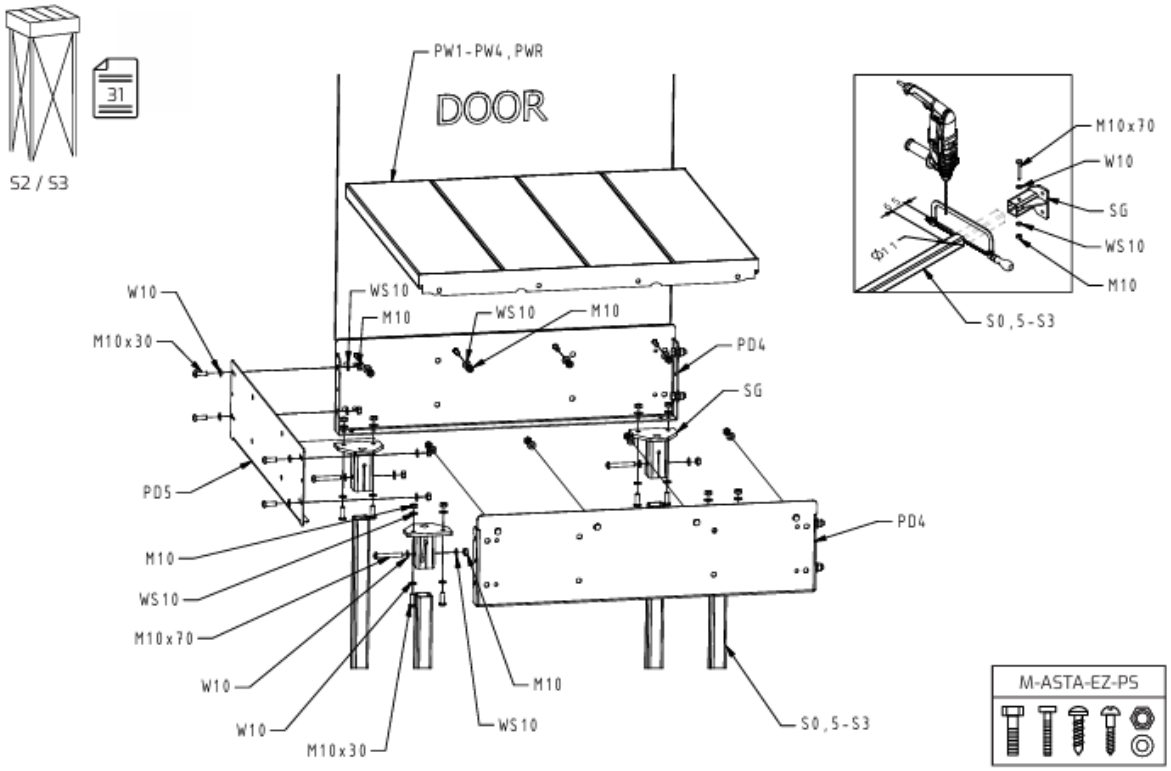
Variant 3.



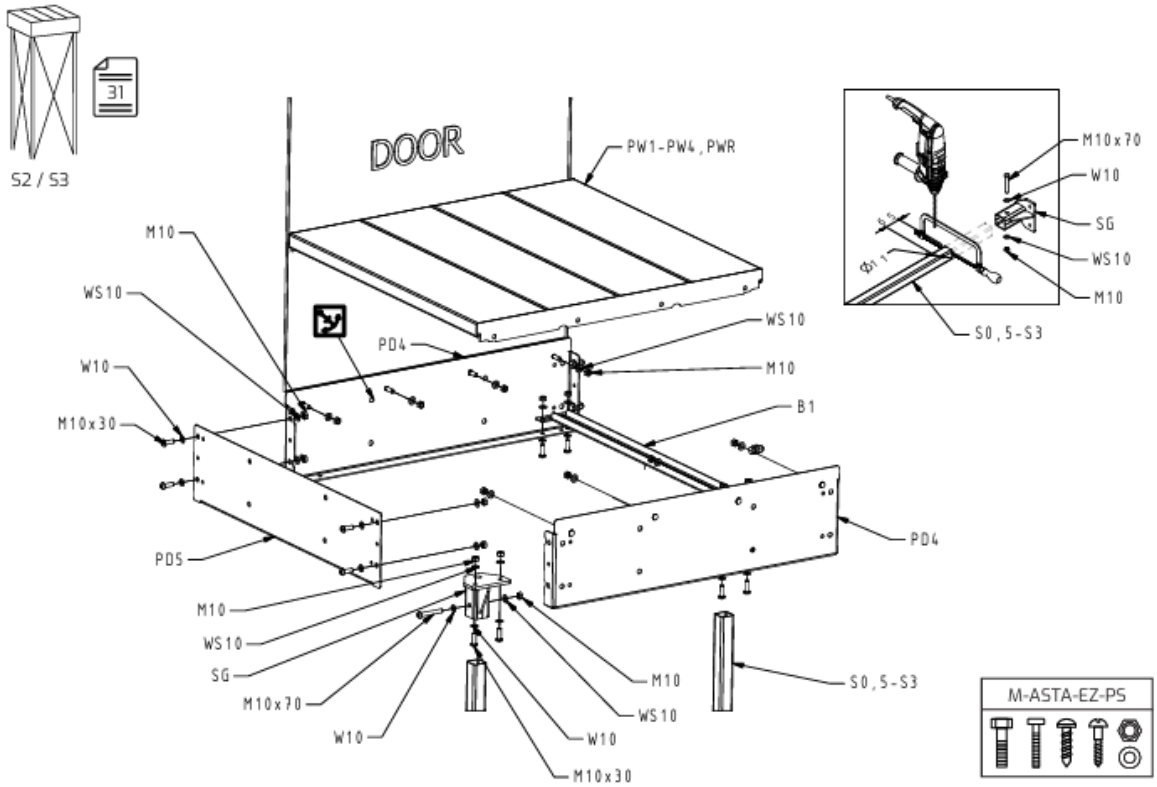
Variant 4.



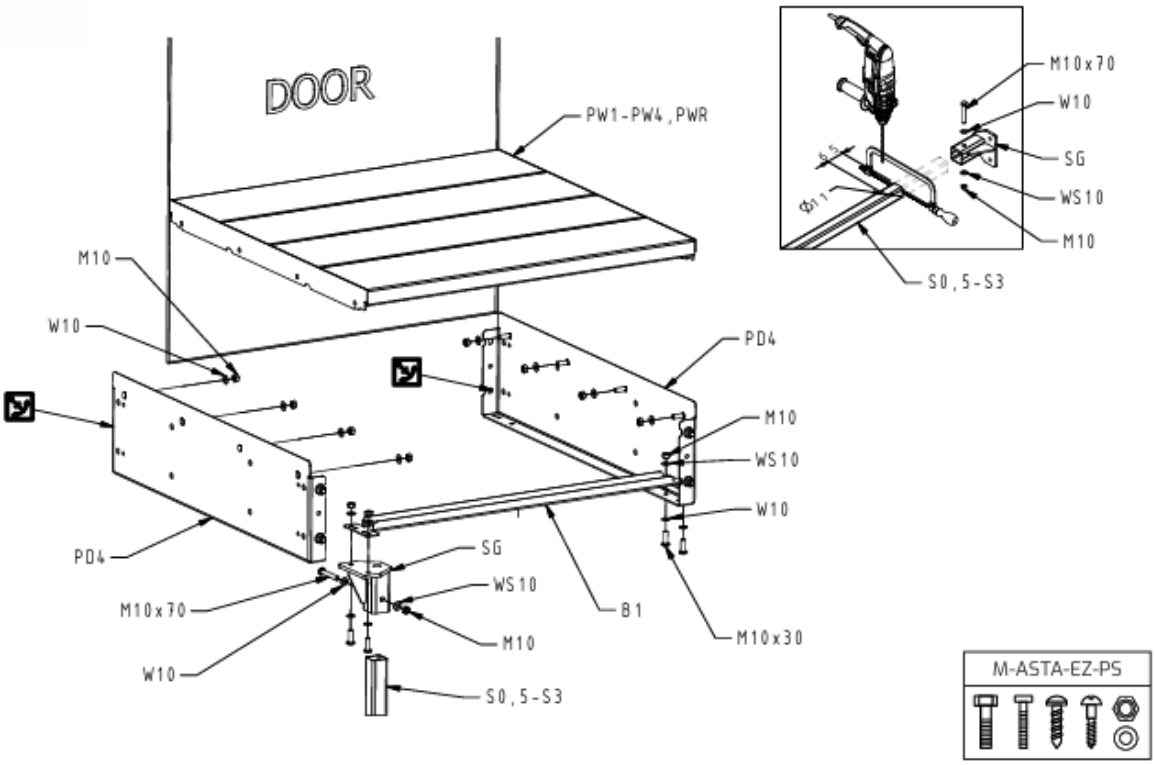
Variant 5.



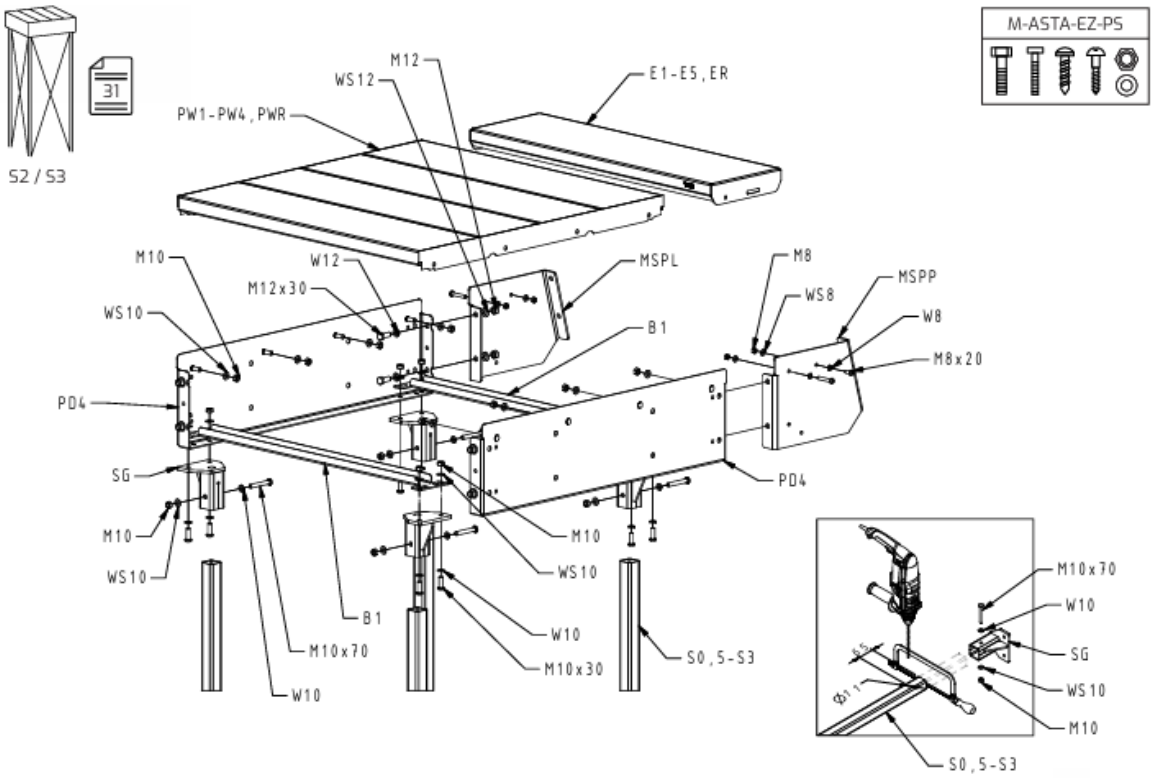
Variant 6.



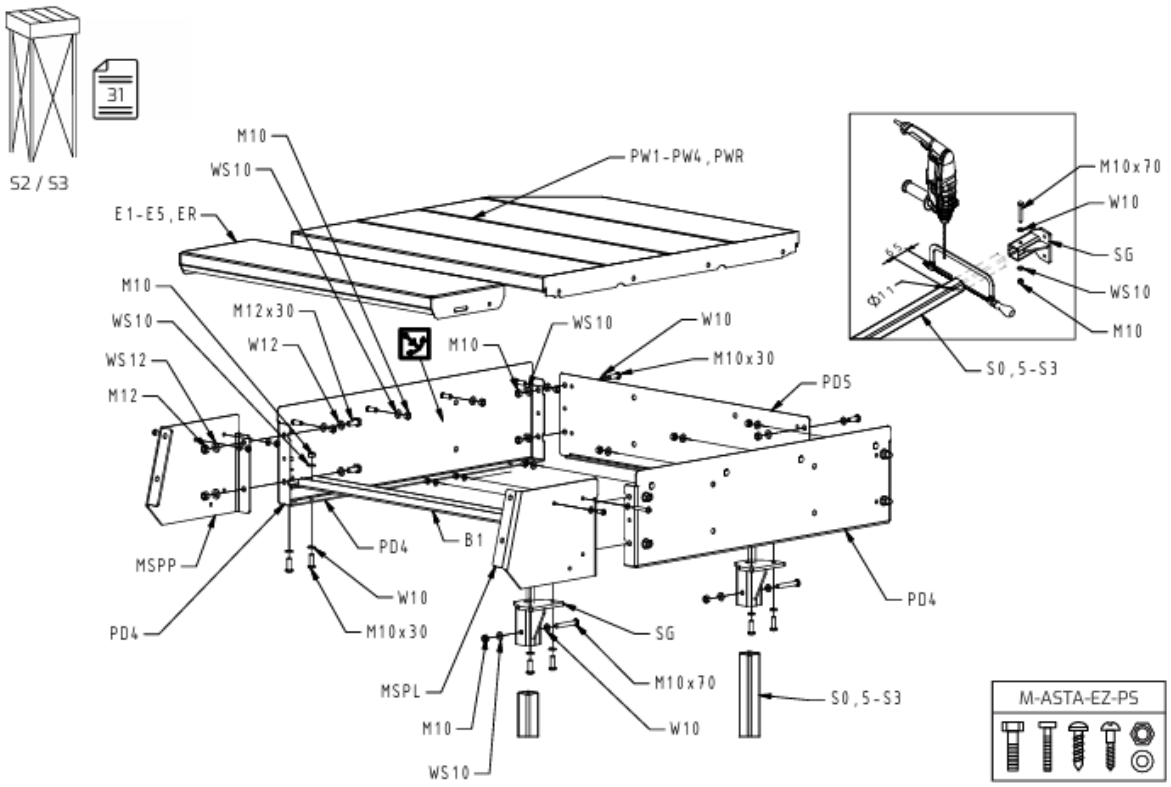
Variant 7.



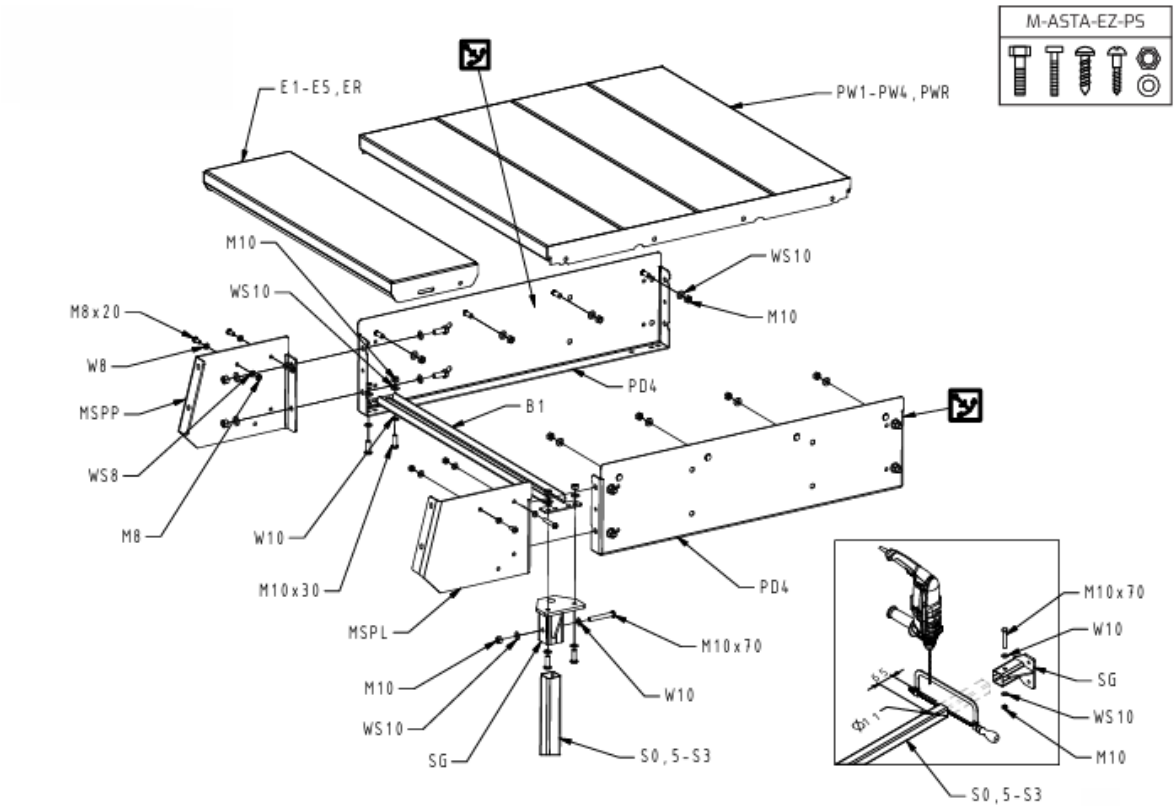
Variant 8.



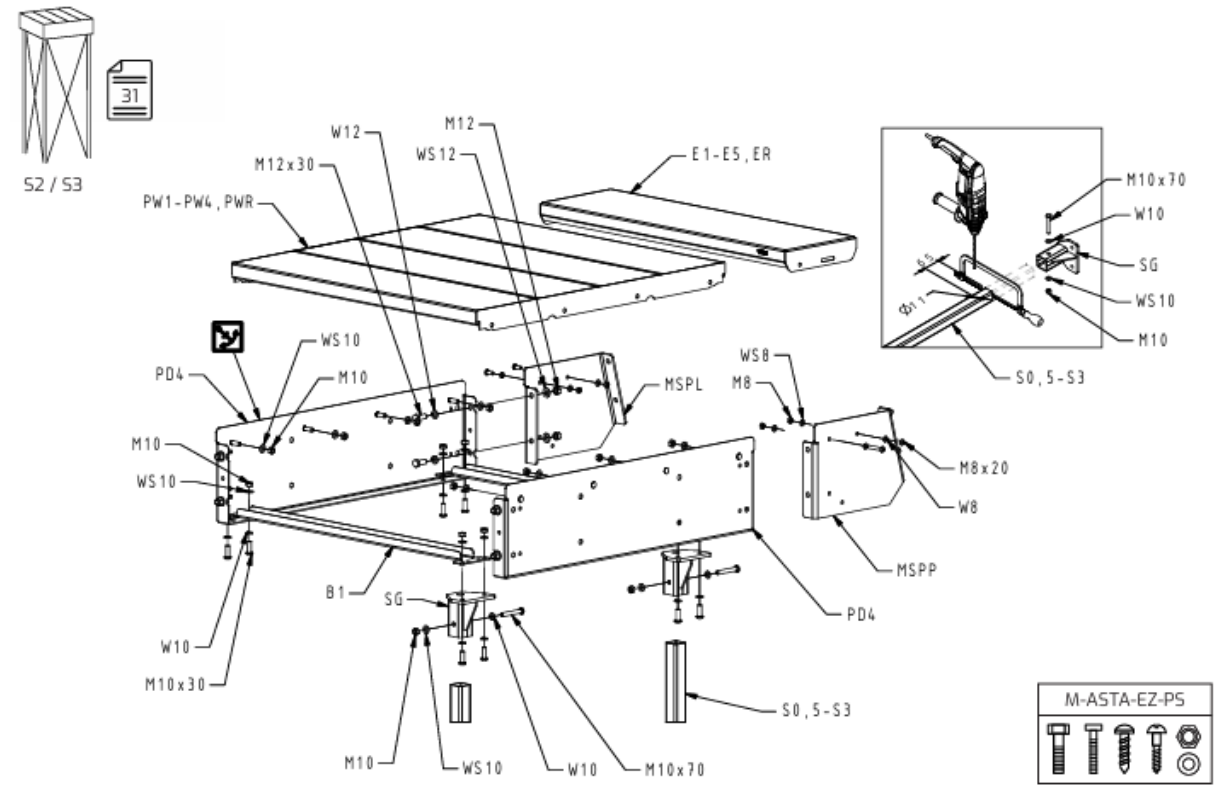
Variant 9.



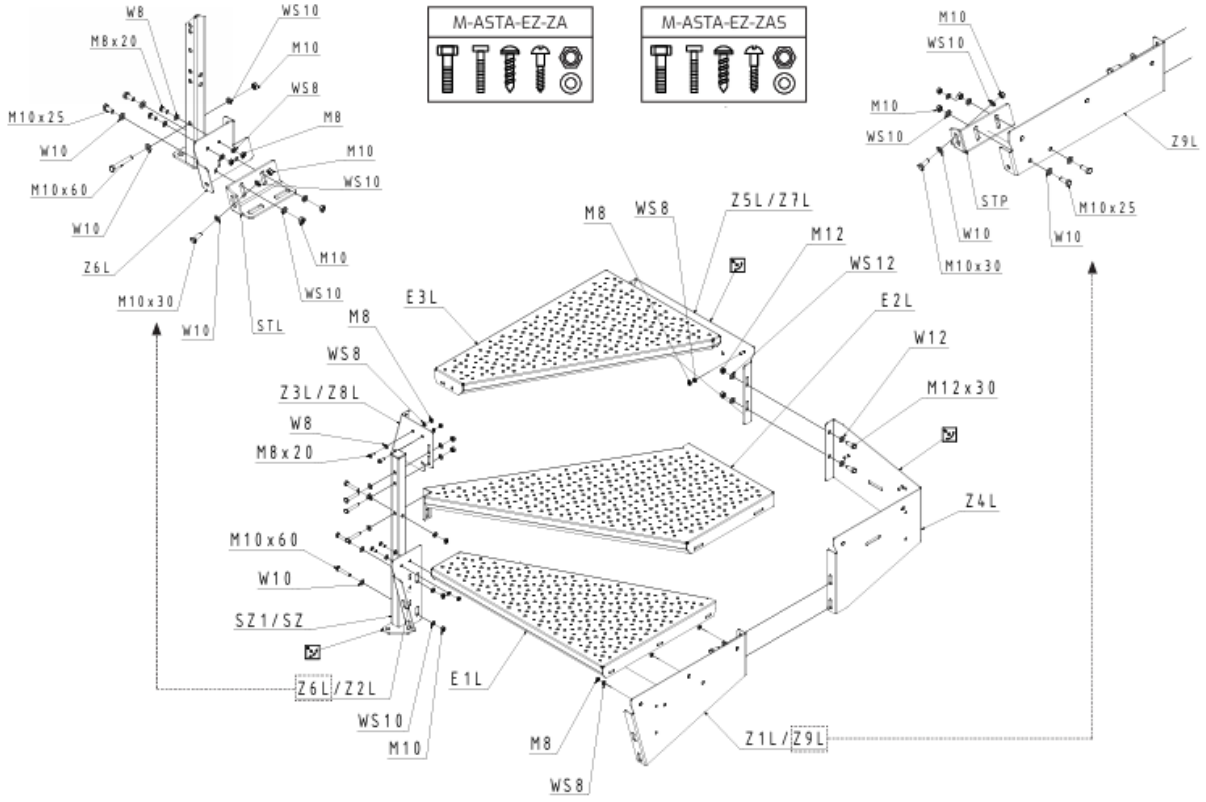
Variant 10.



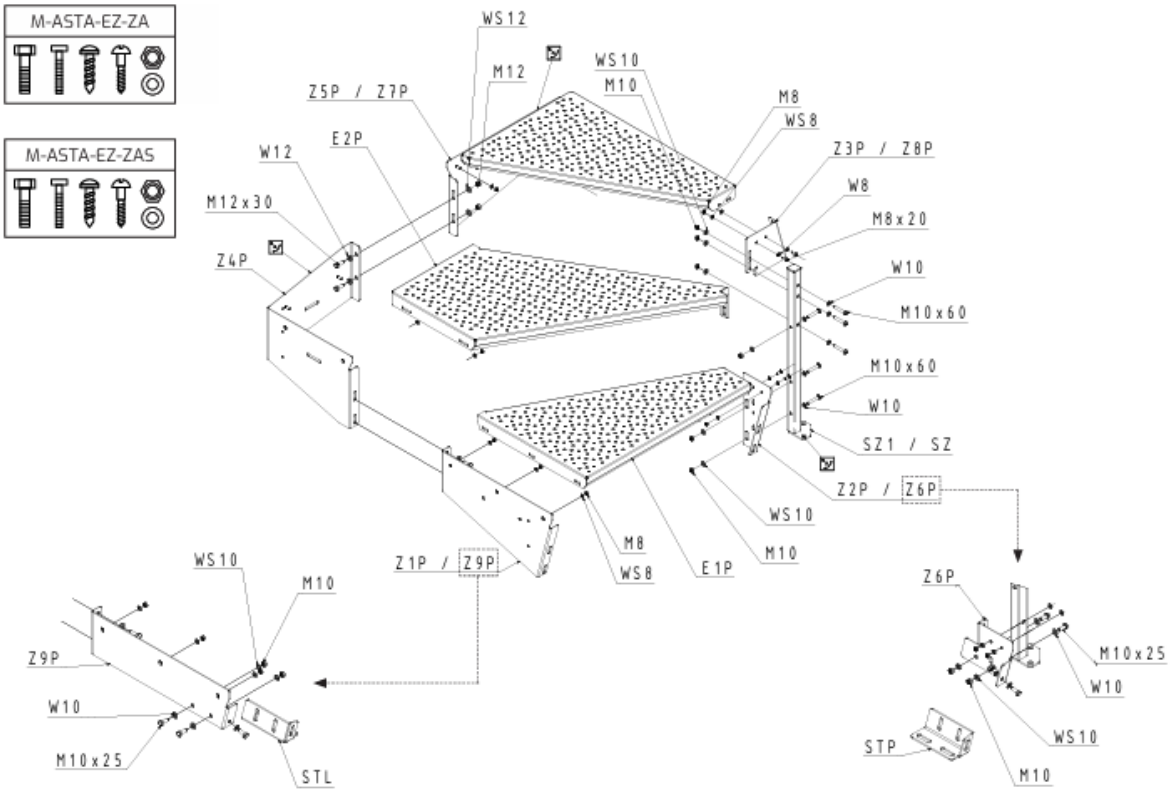
Variant 11.



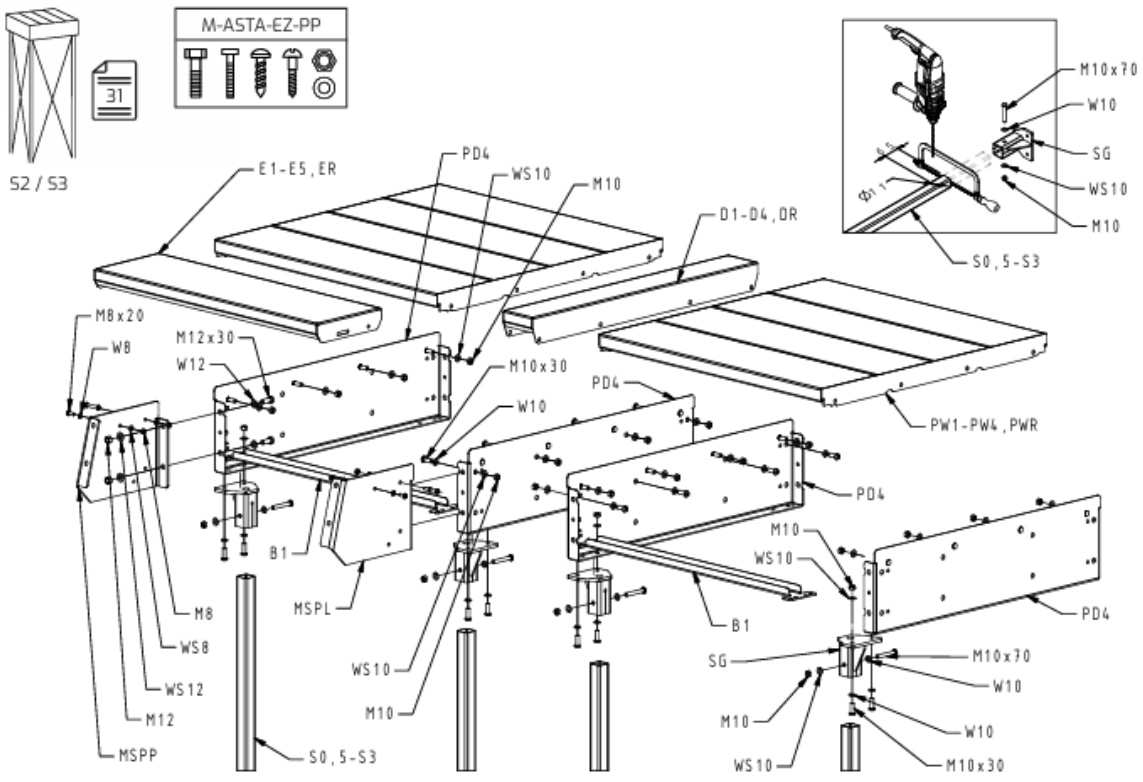
Variant 12.



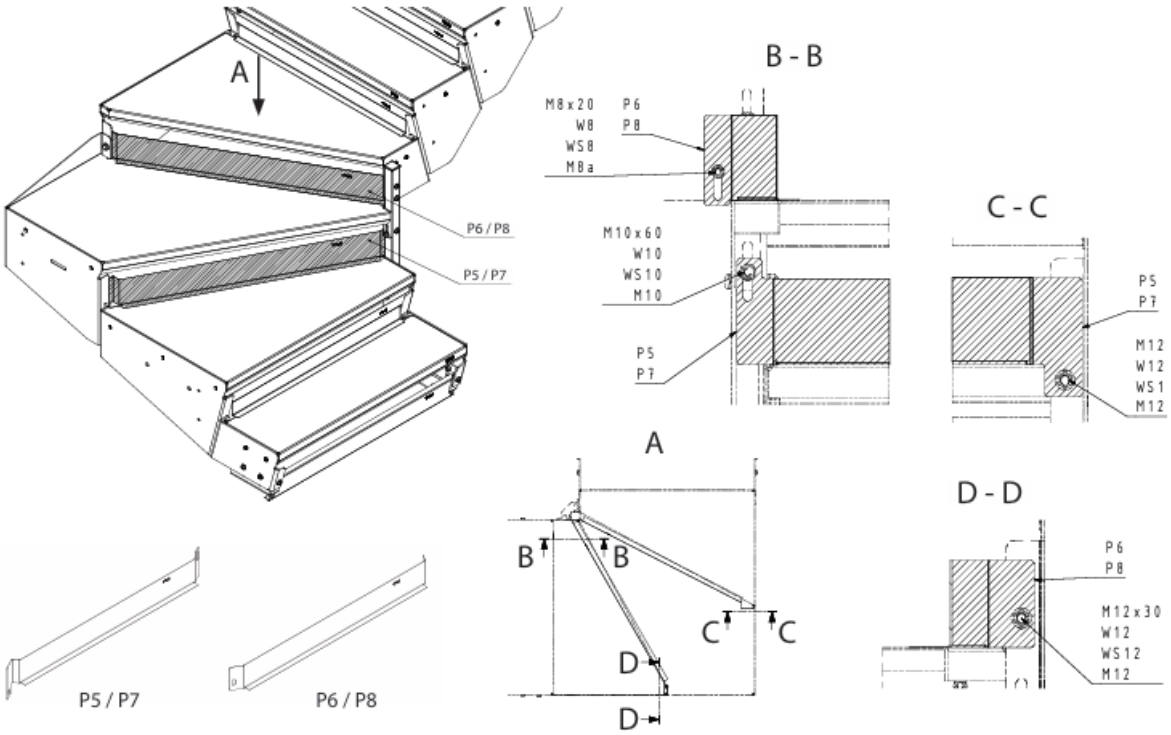
Variant 13.



Variant 14.



Riser plate assembly.



Tension lines asembly.