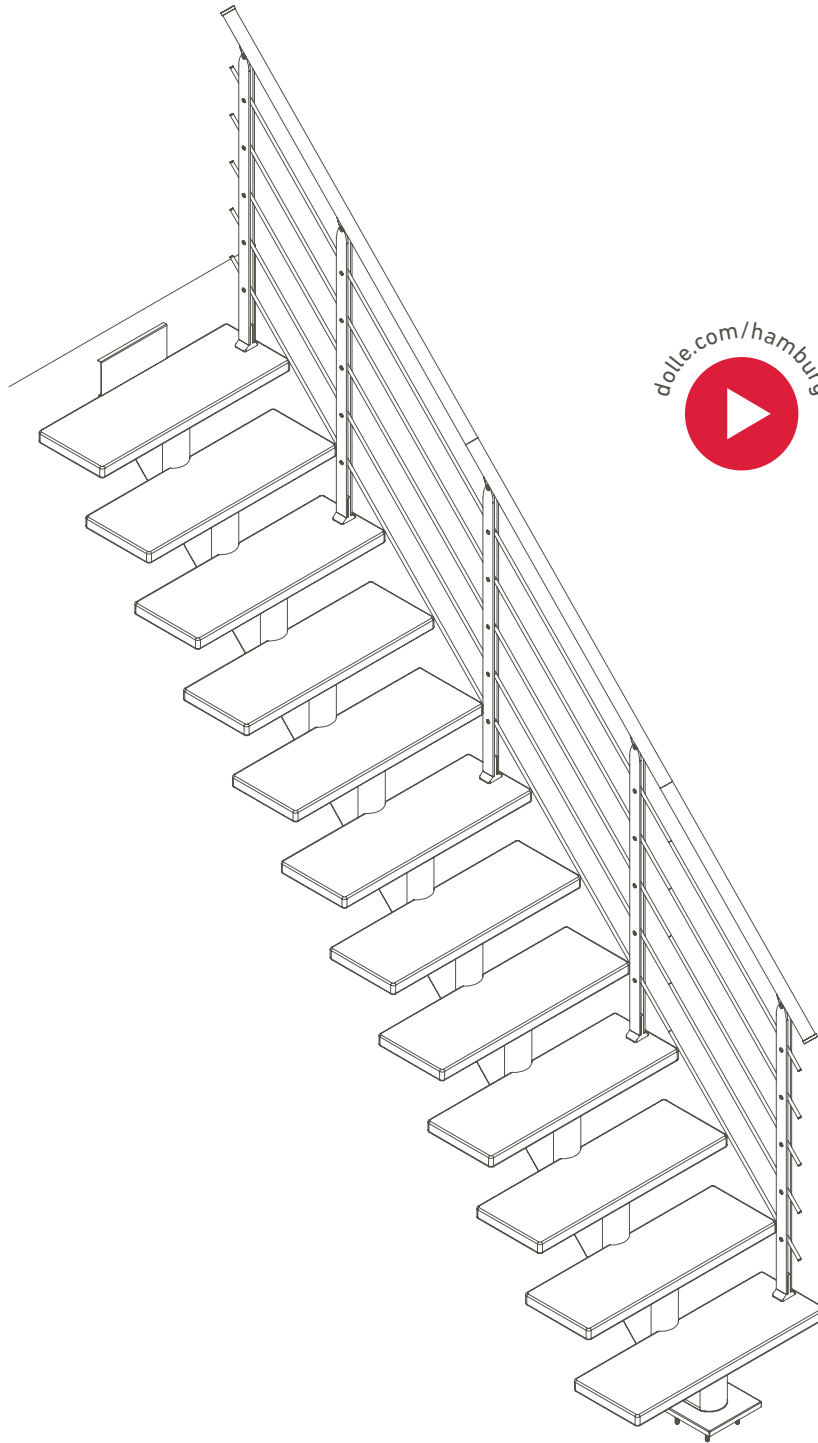


**DOLLE®**



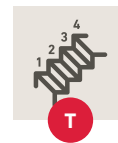
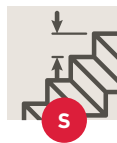
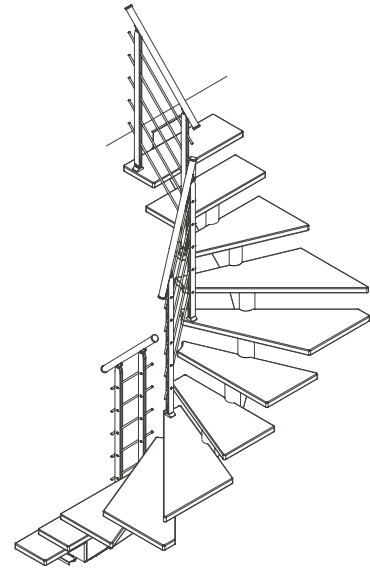
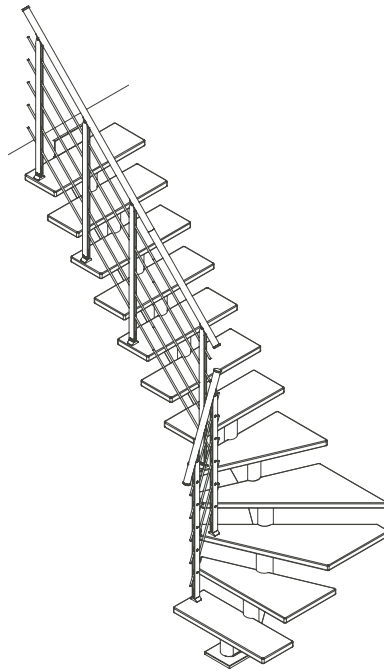
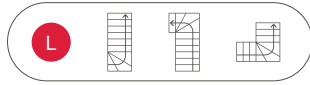
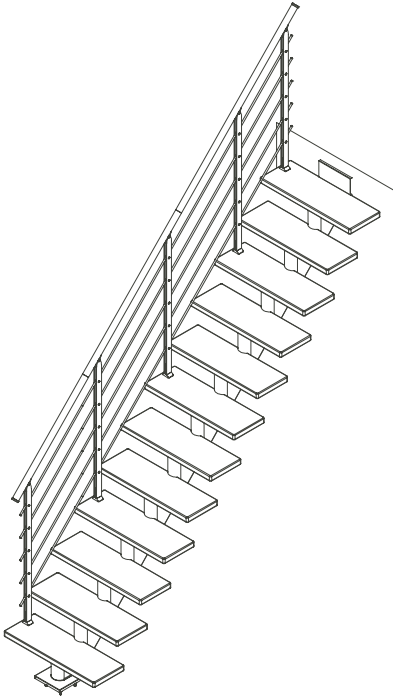
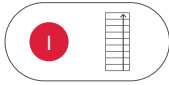
**DESIGN BANISTER**

# HAMBURG

**INSTRUCTION / MONTAGEANLEITUNG  
INSTRUKTION / INSTRUCCION / INSTRUKCJA**

**SOGEM®**

PART OF DOLLE GROUP



	Height floor-to-floor	Rise height	Number of treads
	Geschosshöhe	Steigungshöhe	Anzahl Stufen
	Hauteur sol-sol	Hauteur de marche	Nombre de marches
	Altura de suelo/suelo	Altura de peldaños	Numero de peldaños
	Altura do chão / chão	Altura do degrau	Número de etapas (degraus)
	Hoogte vloer/vloer	Hoogte trede	Aantal treden
	Etagehøjde	Stigningshøjde	Antal trin
	Golv till golv höjd	Stigningshöjd	Antal steg
	Wysokość kondygnacji od podłogi do podłogi	Wysokość stopnia	Ilość stopni
	Înălțime sol-sol	Înălțime treaptă	Număr trepte
	Výška patra podlaha-podlaha	Výška schodu	Počet nášlapů
	Висота от пола до пола	Шаг ступени	Кол-во ступеней
	Aukšto aukštis	Pakopos aukštis	Pakopų kiekis
	Stāva augstums	Pakāpiena augstums	Pakāpienu skaits
	Korruse kõrgus	Astme kõrgus	Astmete arv
	Višina nadstropja	Višina stopnice	Število stopnic
	Visina kata	Visina stepenice	Broj stepenica
	Výška podlažia	Výška stupňa	Počet stupňov

**1**

x 1  
K2-1077500 RAL 7016  
K2-1077501 RAL 9005  
K2-1077502 Pearl grey  
K2-1077503 RAL 9016

	11	12	13	14
x	9	10	11	12

K2-1077505 RAL 7016  
K2-1077506 RAL 9005  
K2-1077507 Pearl grey  
K2-1077508 RAL 9016

**2**

x 1  
K2-1077515 RAL 7016  
K2-1077516 RAL 9005  
K2-1077517 Pearl grey  
K2-1077518 RAL 9016

	11	12	13	14
x	10	11	12	13

H2-20505

**3**

x 1  
K2-1077445 RAL 7016  
K2-1077446 RAL 9005  
K2-1077447 Pearl grey  
K2-1077448 RAL 9016

**4**

x 1  
K2-1077445 RAL 7016  
K2-1077446 RAL 9005  
K2-1077447 Pearl grey  
K2-1077448 RAL 9016

**5**

x 1  
K2-1077505 RAL 7016  
K2-1077506 RAL 9005  
K2-1077507 Pearl grey  
K2-1077508 RAL 9016

	11	12	13	14
x	10	11	12	13

H2-20505

**6**

x 1  
K2-1077505 RAL 7016  
K2-1077506 RAL 9005  
K2-1077507 Pearl grey  
K2-1077508 RAL 9016

	11	12	13	14
x	10	11	12	13

H2-20507

**7**

x 1  
K1-1077710 RAL 7016  
K1-1077711 RAL 9005  
K1-1077712 Pearl grey  
K1-1077713 RAL 9016

**8**

x 1  
K1-1077203

	11	12	13	14	
x	5	5	5	6	
	I	5	5	5	6
	L	5	6	6	6
	U	6	6	7	7

**10**

x 1  
K1-1077070 RAL 7016  
K1-1077071 RAL 9005  
K1-1077072 Pearl grey  
K1-1077073 RAL 9016

**11**

x 1  
K1-1077400 RAL 7016  
K1-1077401 RAL 9005  
K1-1077402 Pearl grey  
K1-1077403 RAL 9016

**20**

x 1  
M2-1078400 Beech / Buche / Beuken / Hêtre / Bøg  
M2-1078310 Oak / Eiche / Bijv / Chêne / Eg  
M2-1078320 Oak white / Eiche weiß / Bijv wt / Chêne blanc / Eg hvid

	11	12	13	14	
x	5	5	6	6	
	I	5	5	5	6
	L	5	6	6	6
	U	6	6	7	7

**21**

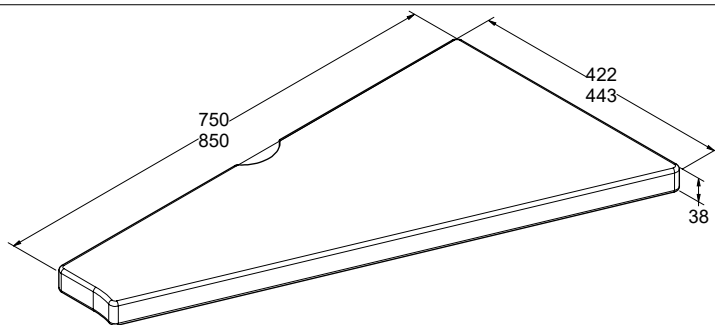
x 1  
M2-1078401 Beech / Buche / Beuken / Hêtre / Bøg  
M2-1078302 Oak / Eiche / Bijv / Chêne / Eg  
M2-1078303 Oak white / Eiche weiß / Bijv wt / Chêne blanc / Eg hvid

	11	12	13	14	
x	10	11	12	13	
	I	6	7	8	9
	L	6	7	8	9
	U	2	3	4	5

25

x	I	0
	L	1
	U	2

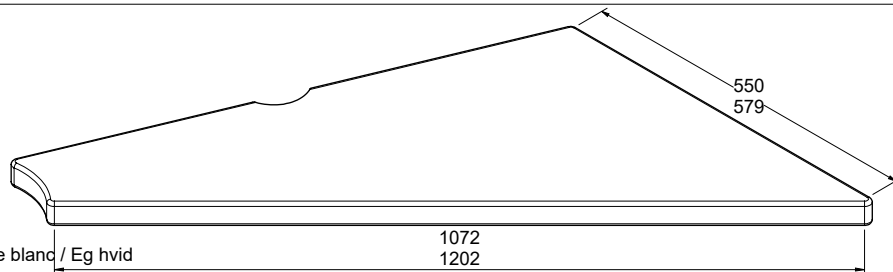
- M2-1078409 750 mm Beech / Buche / Beuk / Hêtre / Bøg
- M2-1078419 750 mm Oak / Eiche / Eik / Chêne / Eg
- M2-1078429 750 mm Oak white / Eiche weiss / Eik wit / Chêne blanc / Eg hvid
- M2-1078459 850 mm Beech / Buche / Beuk / Hêtre / Bøg
- M2-1078469 850 mm Oak / Eiche / Eik / Chêne / Eg
- M2-1078479 850 mm Oak white / Eiche weiss / Eik wit / Chêne blanc / Eg hvid



24

x	I	0
	L	1
	U	2

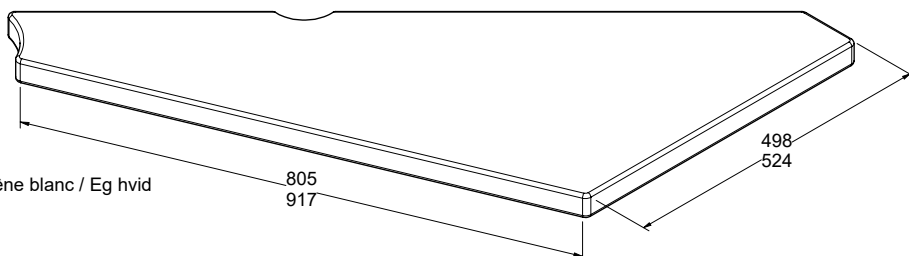
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- M2-1078418 750 mm Oak / Eiche / Eik / Chêne / Eg
- M2-1078428 750 mm Oak white / Eiche weiss / Eik wit / Chêne blanc / Eg hvid
- M2-1078458 850 mm Beech / Buche / Beuk / Hêtre / Bøg
- M2-1078468 850 mm Oak / Eiche / Eik / Chêne / Eg
- M2-1078478 850 mm Oak white / Eiche weiss / Eik wit / Chêne blanc / Eg hvid



23

x	I	0
	L	1
	U	2

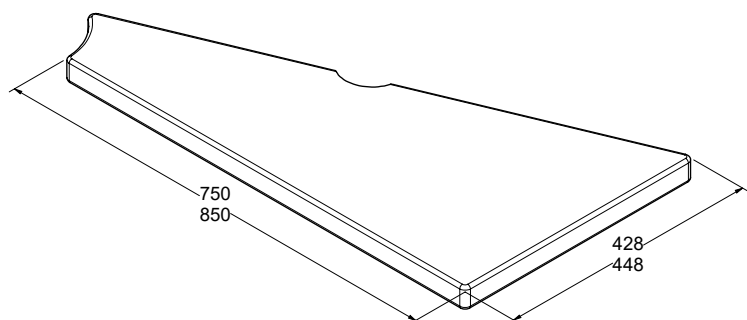
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- M2-1078417 750 mm Oak / Eiche / Eik / Chêne / Eg
- M2-1078427 750 mm Oak white / Eiche weiss / Eik wit / Chêne blanc / Eg hvid
- M2-1078457 850 mm Beech / Buche / Beuk / Hêtre / Bøg
- M2-1078467 850 mm Oak / Eiche / Eik / Chêne / Eg
- M2-1078477 850 mm Oak white / Eiche weiss / Eik wit / Chêne blanc / Eg hvid



22

x	I	0
	L	1
	U	2

- M2-1078406 750 mm Beech / Buche / Beuk / Hêtre / Bøg
- M2-1078416 750 mm Oak / Eiche / Eik / Chêne / Eg
- M2-1078426 750 mm Oak white / Eiche weiss / Eik wit / Chêne blanc / Eg hvid
- M2-1078456 850 mm Beech / Buche / Beuk / Hêtre / Bøg
- M2-1078466 850 mm Oak / Eiche / Eik / Chêne / Eg
- M2-1078476 850 mm Oak white / Eiche weiss / Eik wit / Chêne blanc / Eg hvid



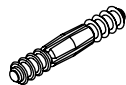
27

x		11	12	13	14
	I	2	2	2	2
	L	4	4	4	4
	U	6	6	6	6



K1-1077720

30



x 10  
K3-08023

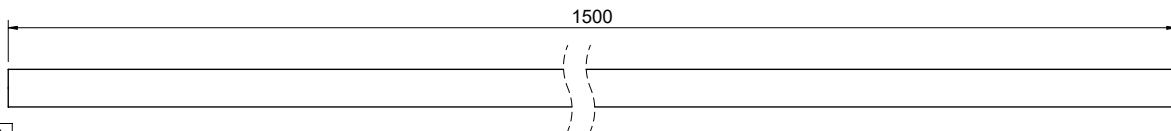
31



x		11	12	13	14
	I	10	10	10	10
	L	20	20	20	20
	U	30	30	30	30

K1-18099

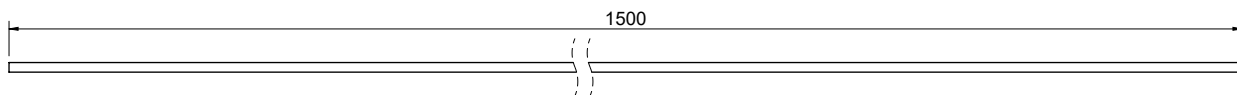
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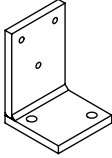
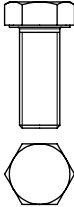
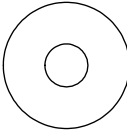



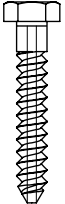
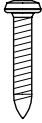

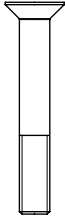
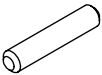


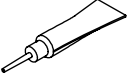
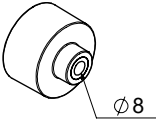





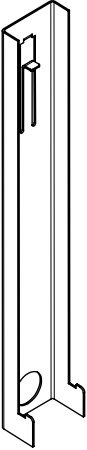
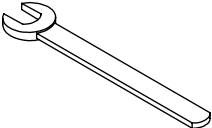
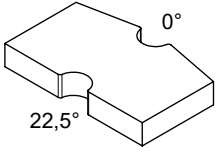
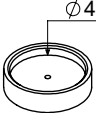
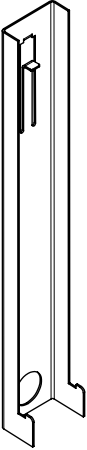
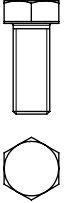



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	I	3	3	3	3
	L	2	2	3	3
	U	2	2	2	2

- M2-1078905 Beech / Buche / Beuken / Hêter / Bøg
- M2-1078915 Oak / Eiche / Bijv / Chêne / Eg
- M2-1078917 Oak white / Eiche weiß / Bijv wit / Chêne blanc / Eg hvid

33

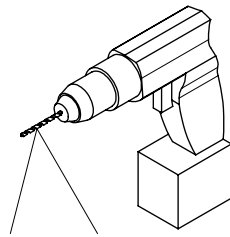
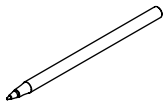


x 15  
K1-18049

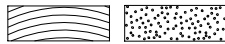
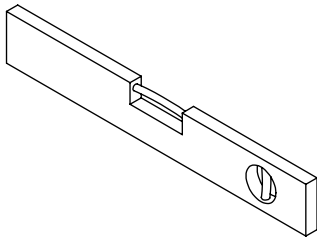
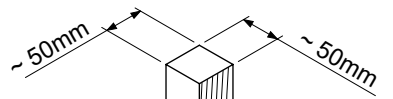
<p>36</p> <p>x 4 K1-1077295 RAL 7016 K1-1077296 RAL 9005 K1-1077297 Pearl grey K1-1077298 RAL 9016</p> 	<p>37</p> <table border="1" data-bbox="443 190 651 246"> <tr><td></td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>x</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> </table> <p>R1-63500 M16 x 40</p> 		11	12	13	14	x	11	12	13	14	<p>38</p> <table border="1" data-bbox="805 190 1013 246"> <tr><td></td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>x</td><td>10</td><td>11</td><td>12</td><td>13</td></tr> </table> <p>K3-04053 Ø50 / Ø17</p> 		11	12	13	14	x	10	11	12	13	<p>40</p> <p>x 17 K3-08001 Ø12 x 60</p> 																				
	11	12	13	14																																							
x	11	12	13	14																																							
	11	12	13	14																																							
x	10	11	12	13																																							
<p>41</p> <p>x 17 K3-04001 Ø10</p>  	<p>42</p> <p>x 17 K3-06003 Ø10 x 60</p> 	<p>44</p> <table border="1" data-bbox="805 414 1013 470"> <tr><td></td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>x</td><td>100</td><td>108</td><td>116</td><td>124</td></tr> </table> <p>R1-63267 Ø6 x 35 TX30</p>  		11	12	13	14	x	100	108	116	124																															
	11	12	13	14																																							
x	100	108	116	124																																							
<p>46</p> <table border="1" data-bbox="79 593 303 698"> <tr><td></td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>x</td><td>I 5</td><td>5</td><td>5</td><td>6</td></tr> <tr><td></td><td>L 5</td><td>6</td><td>6</td><td>6</td></tr> <tr><td></td><td>U 6</td><td>6</td><td>7</td><td>7</td></tr> </table> <p>K3-02097 M10 x 70</p> 		11	12	13	14	x	I 5	5	5	6		L 5	6	6	6		U 6	6	7	7	<p>47</p> <p>x 4 R3-91415 Ø8 x 40</p> 	<p>48</p> <table border="1" data-bbox="805 593 1029 698"> <tr><td></td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>x</td><td>I 5</td><td>5</td><td>5</td><td>6</td></tr> <tr><td></td><td>L 5</td><td>6</td><td>6</td><td>6</td></tr> <tr><td></td><td>U 6</td><td>6</td><td>7</td><td>7</td></tr> </table> <p>K3-06239 Ø4,5 x 25</p>  		11	12	13	14	x	I 5	5	5	6		L 5	6	6	6		U 6	6	7	7	<p>49</p> <p>Strong glue Superkleber Seconde lijm Colle forte Superlim</p>  <p>x 1 K3-90001</p>
	11	12	13	14																																							
x	I 5	5	5	6																																							
	L 5	6	6	6																																							
	U 6	6	7	7																																							
	11	12	13	14																																							
x	I 5	5	5	6																																							
	L 5	6	6	6																																							
	U 6	6	7	7																																							
<p>50</p> <p>x 1 K1-01810</p>  <p>Ø8</p>	<p>51</p> <p>x 2 K3-06022 Ø5 x 35 TX25</p>  																																										
<p>56</p> <p>x 2 K3-08006 Ø6 x 40</p> 	<p>58</p> <p>x 8 R3-20590</p>  <p>12</p>	<p>59</p> <p>x 1 K3-90005</p> <p>Wood glue Holzkleber Colle à bois Trælim Houtlijm</p> 	<p>60</p> 																																								
<p>61</p> <p>x 1 R1-63501 24 mm</p> 	<p>62</p> <p>x 1 H3-35920</p>  <p>0° 22,5°</p>	<p>63</p> <p>x 1 K1-01620</p>  <p>Ø40,2</p>	<p>x 1 H2-63530</p> 																																								
<p>64</p> <p>x 2 K-02512 M12 x 30</p> 	<p>65</p> <p>x 2 K3-04092 Ø12</p> 	<p>66</p> <p>x 2 K3-04032 Ø12</p>  																																									



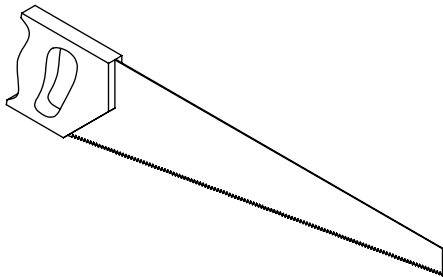
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Werkzeuge nicht enthalten!  
Gereedschap niet inbegrepen!  
Outils non inclus!  
Værktøj ikke inkluderet!



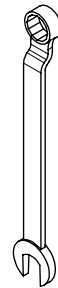
TX25  
TX30  
PZ2



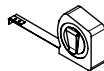
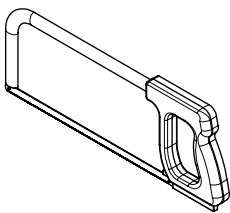
∅ 3mm ∅ 6mm  
∅ 4mm ∅ 12mm  
∅ 6mm  
∅ 8mm  
∅ 10mm



3mm  
4mm  
6mm



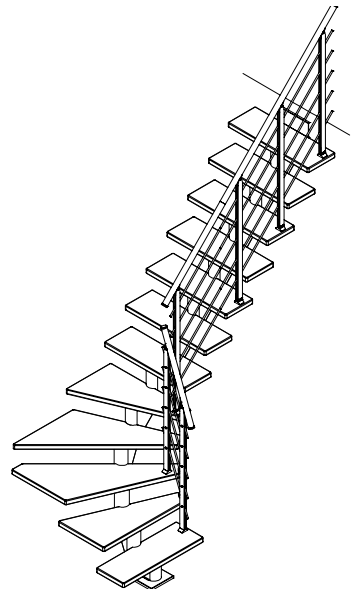
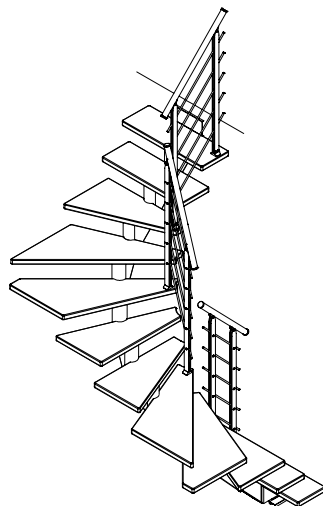
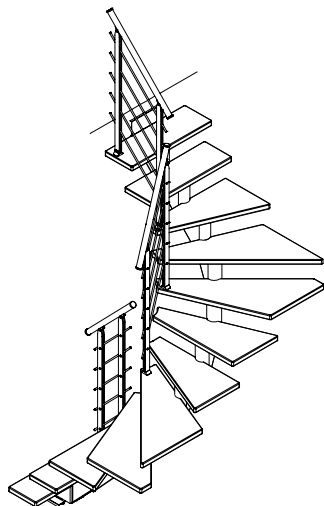
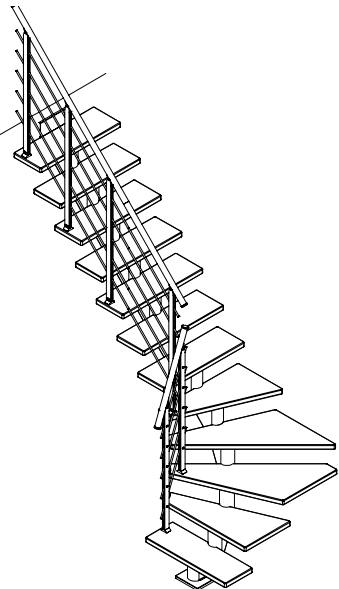
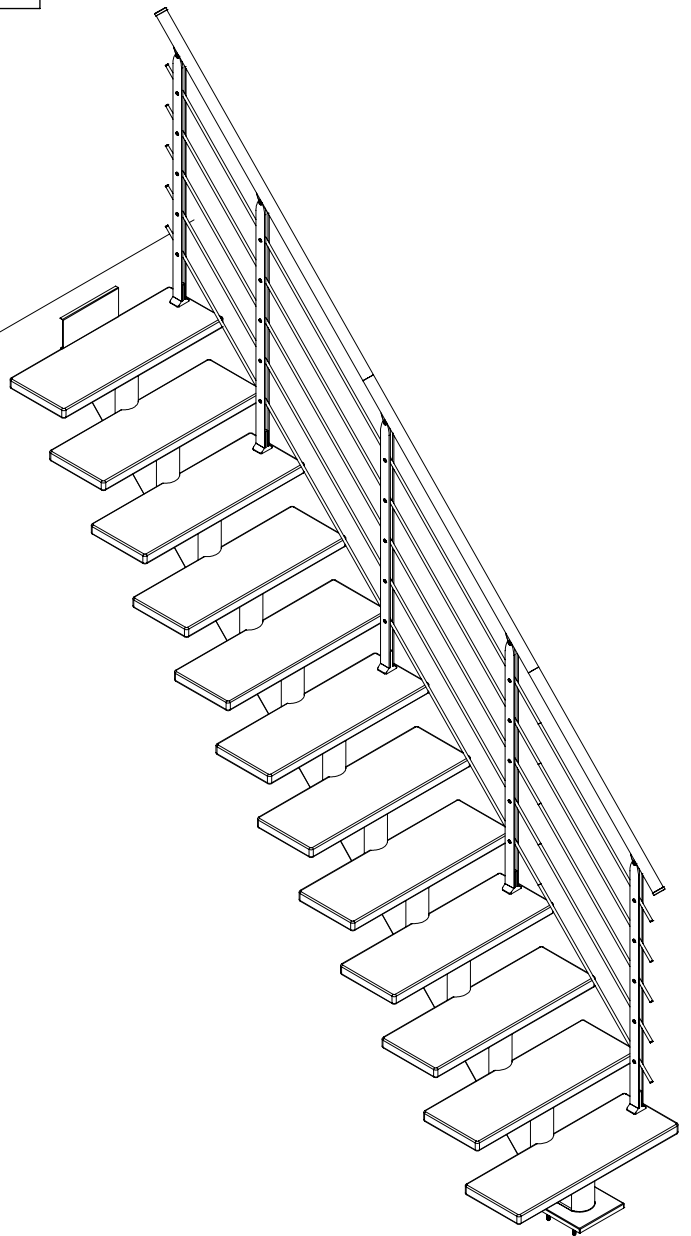
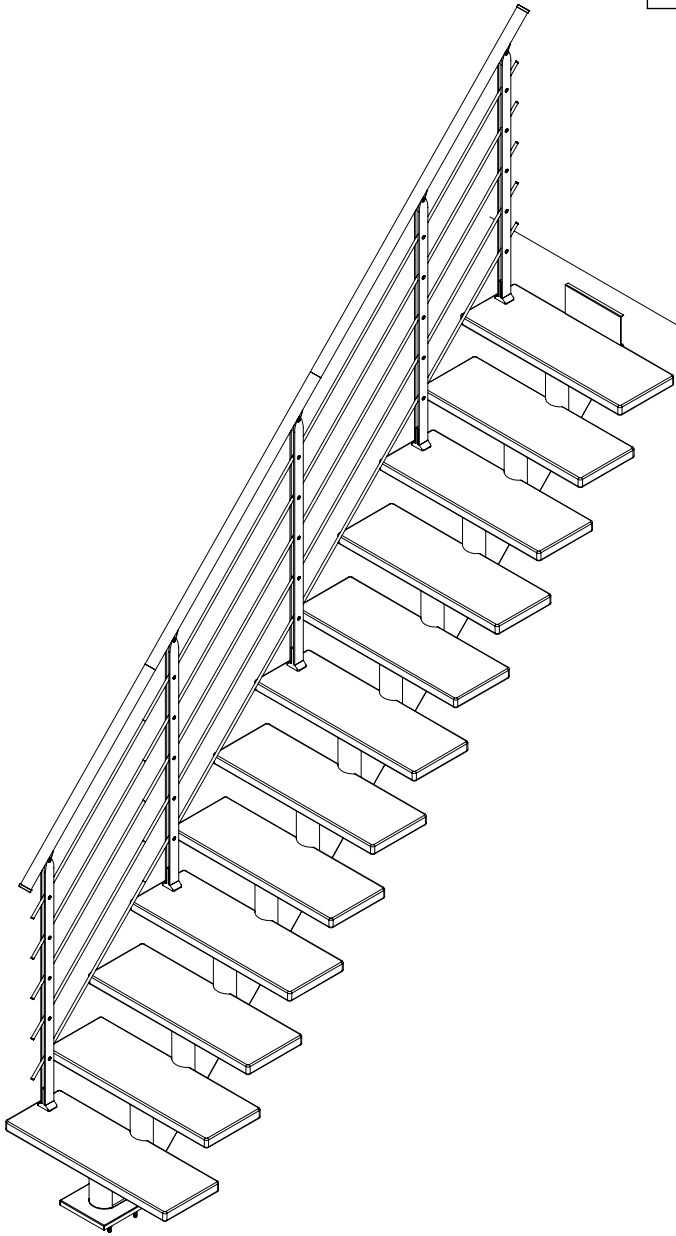
16mm  
18mm

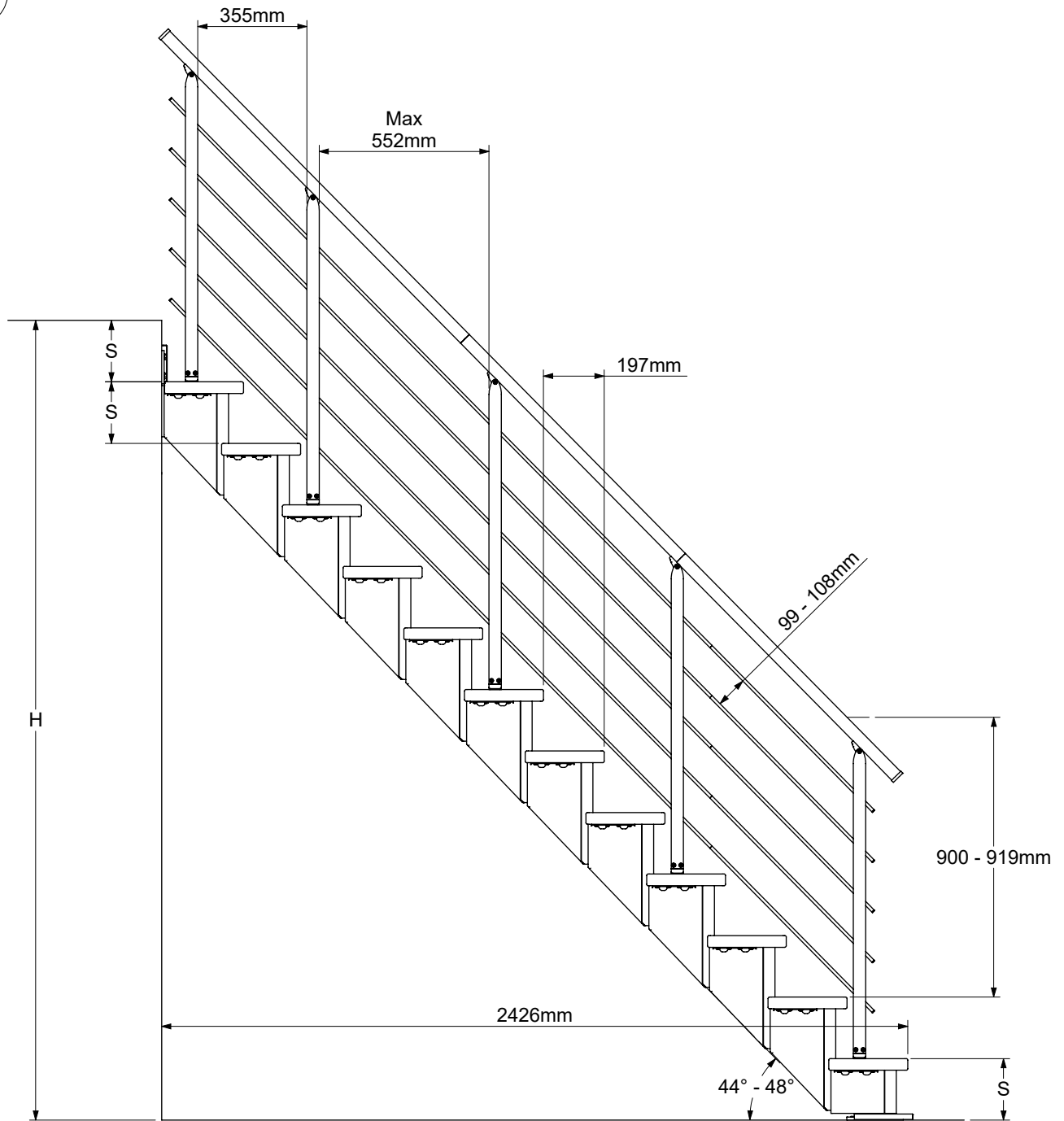




L

R





$$S = \frac{H}{T + 1}$$

min S	max S
185 mm	215 mm

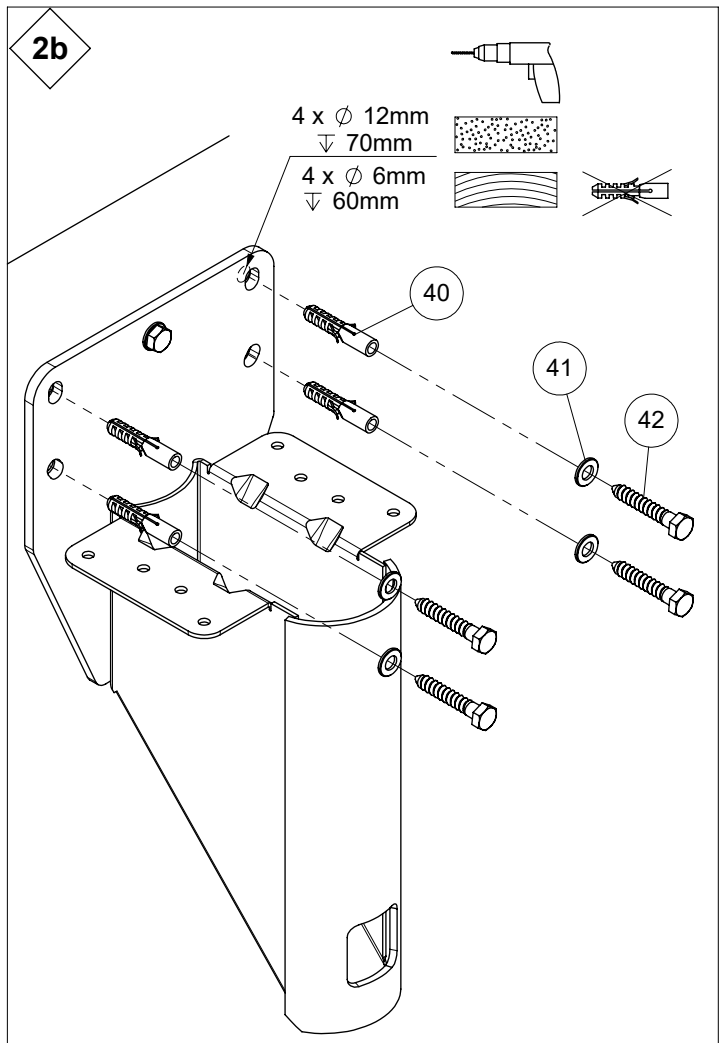
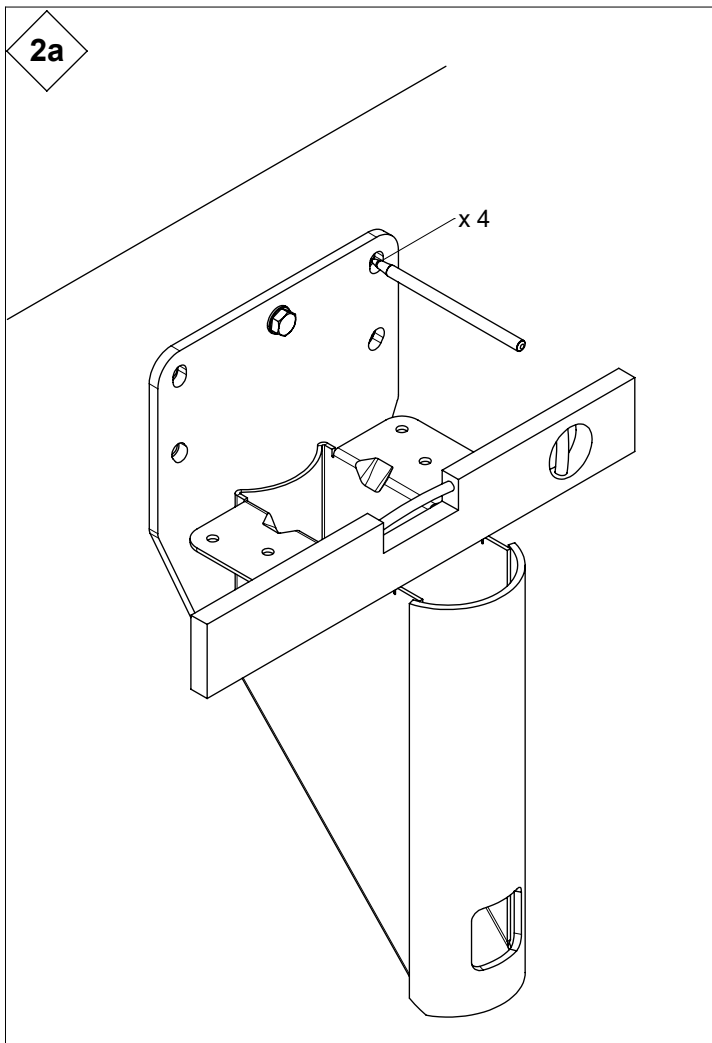
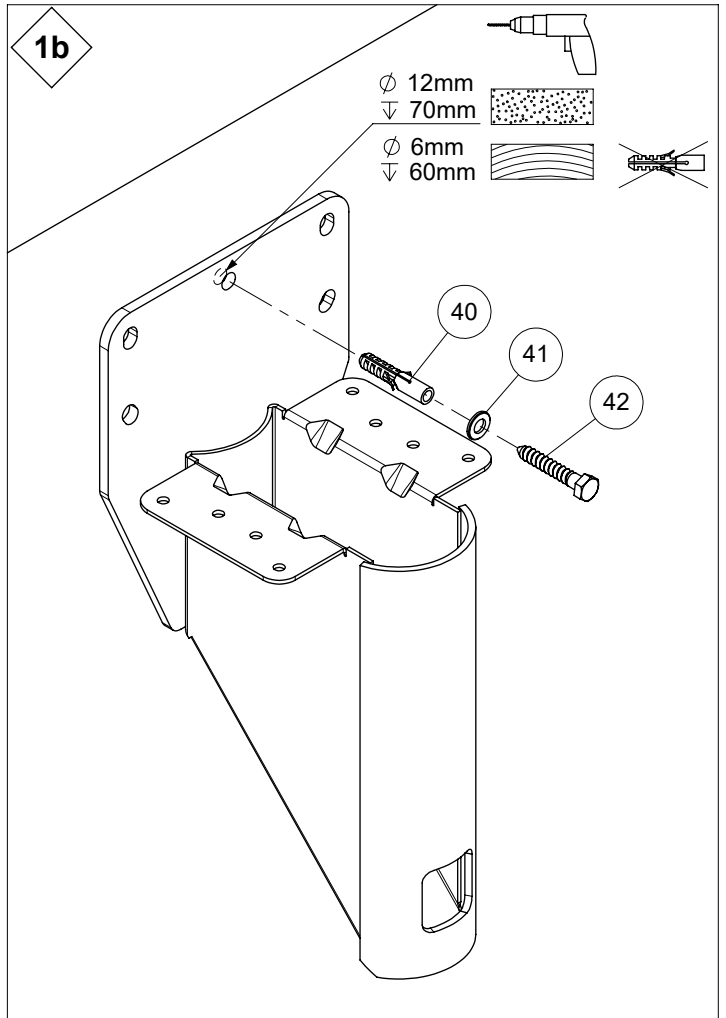
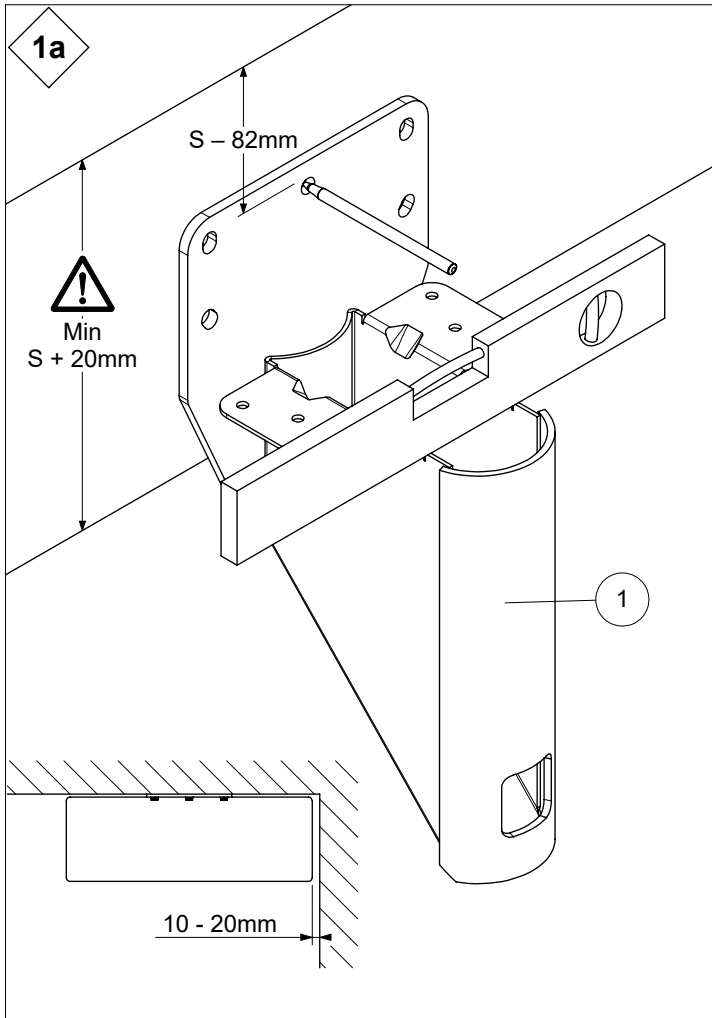
Example / Beispiel / Voorbeeld / Example / Eksempel:  
H: 2400 mm, T: 11 st(pcs)

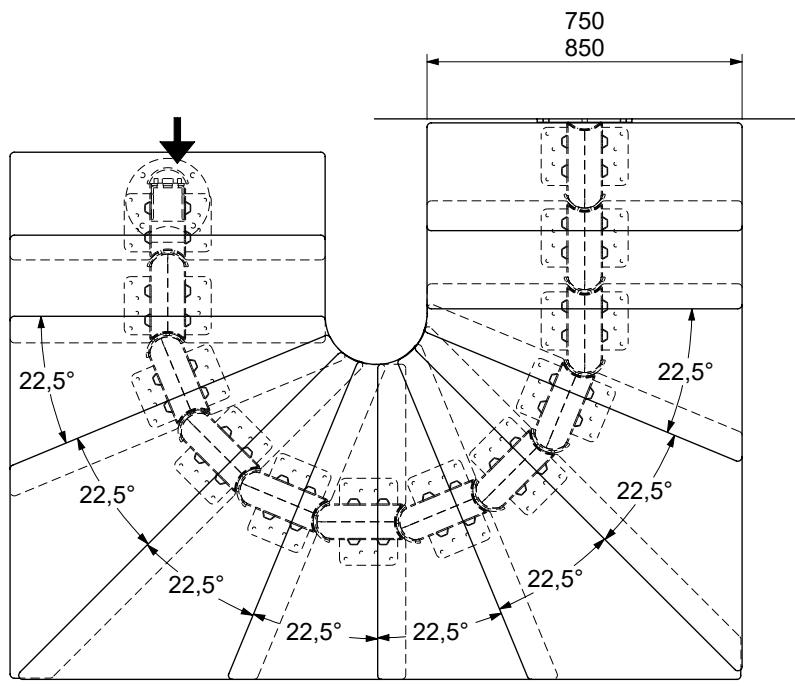
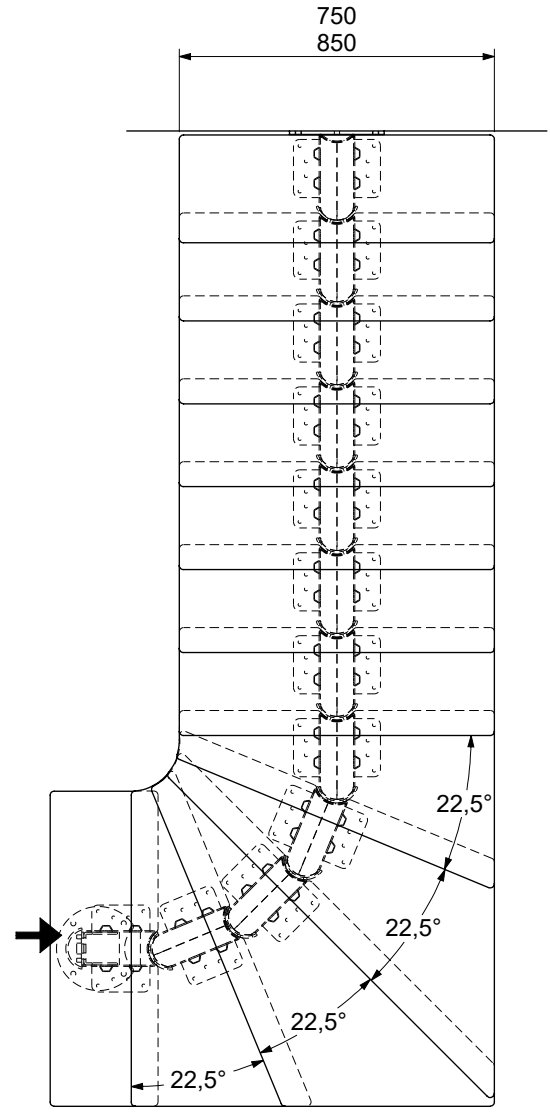
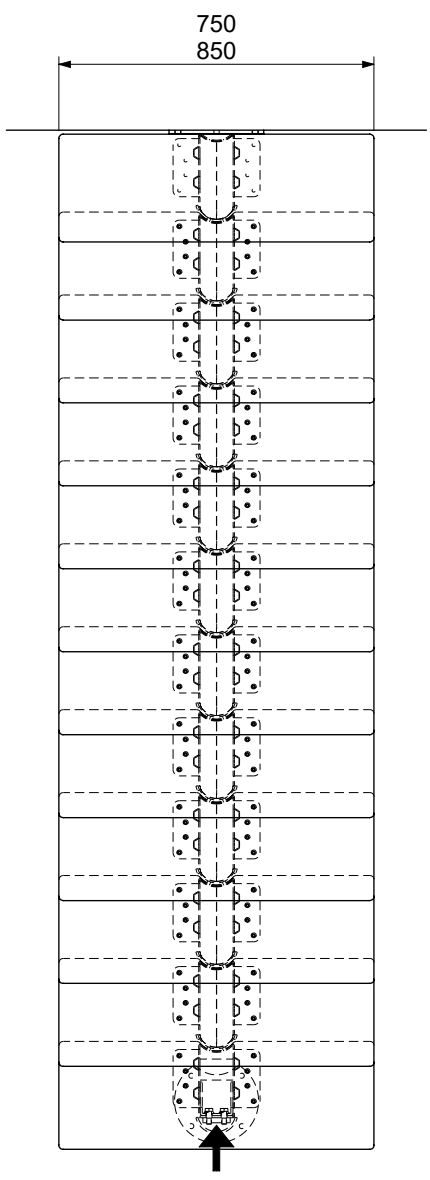
$$S = \frac{2400 \text{ mm}}{11 + 1} = 200 \text{ mm}$$



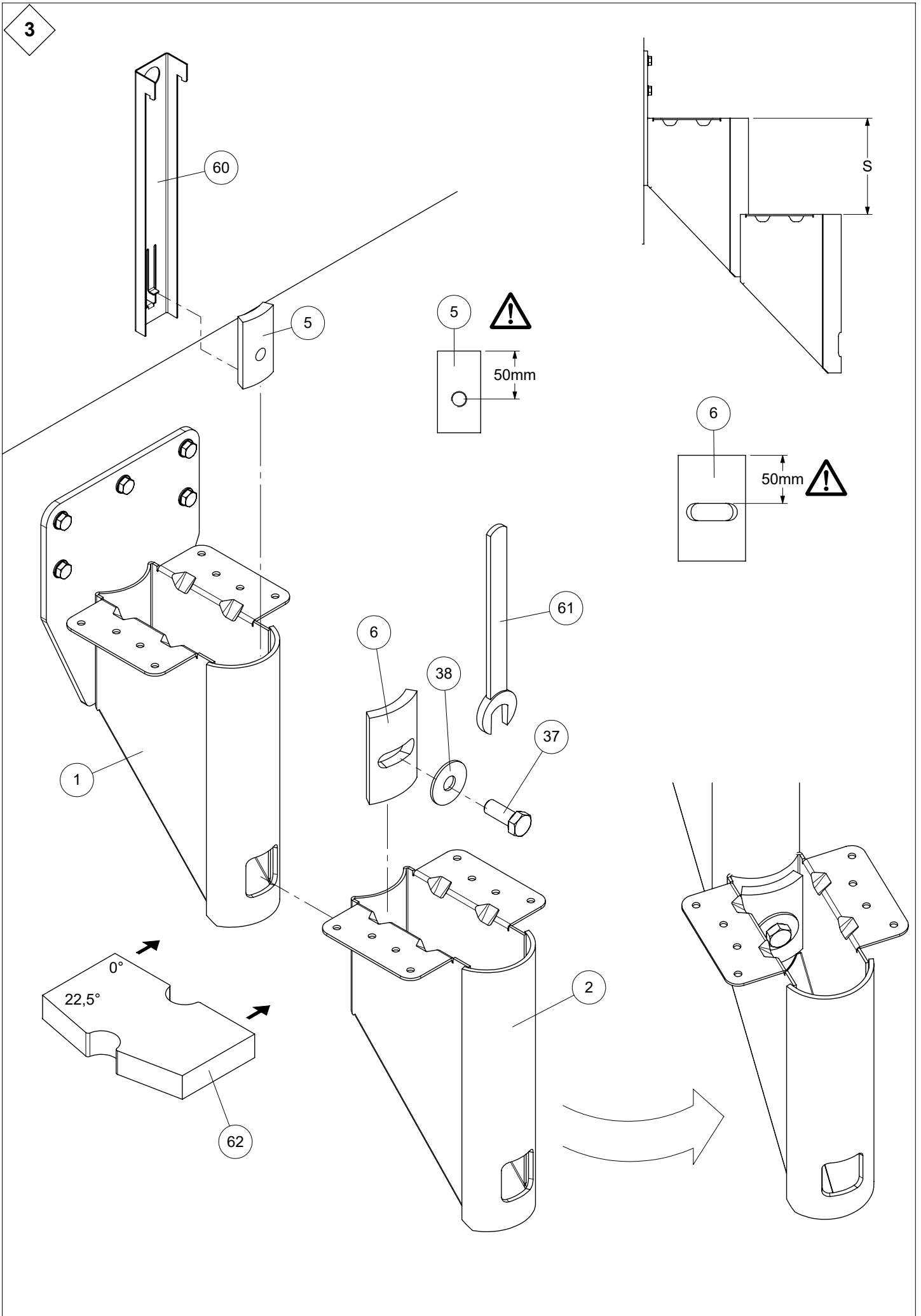
T	min H	max H
9	1850 mm	2150 mm
10	2035 mm	2365 mm
11	2220 mm	2580 mm
12	2405 mm	2795 mm
13	2590 mm	3010 mm

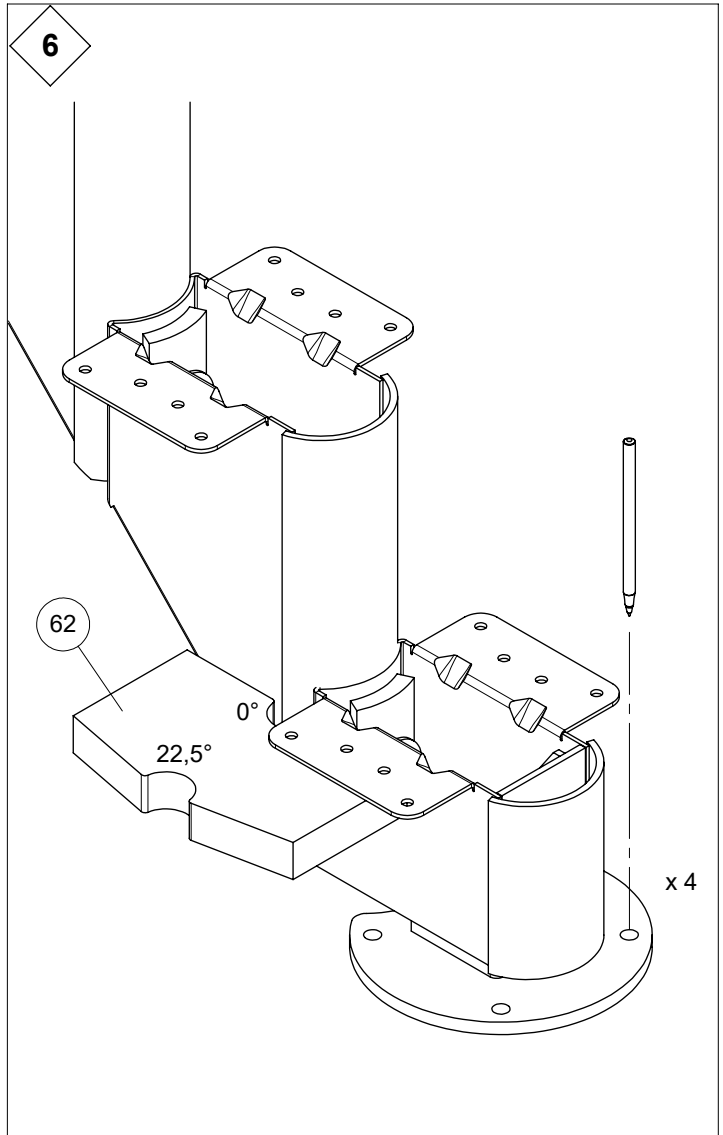
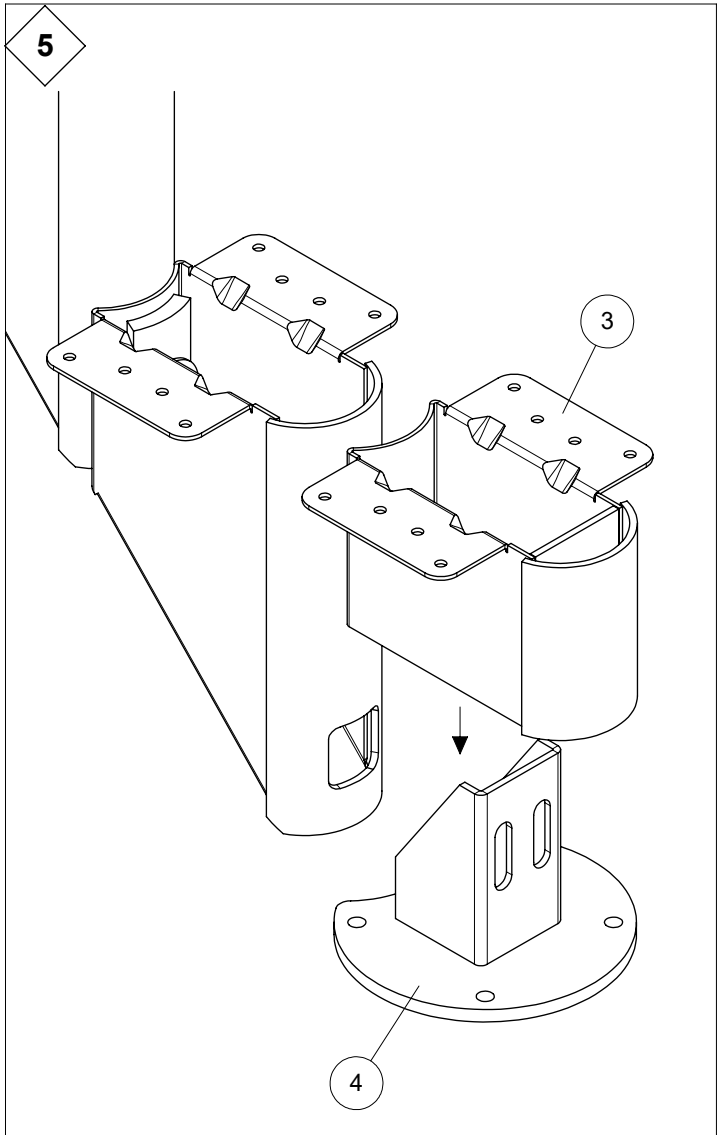
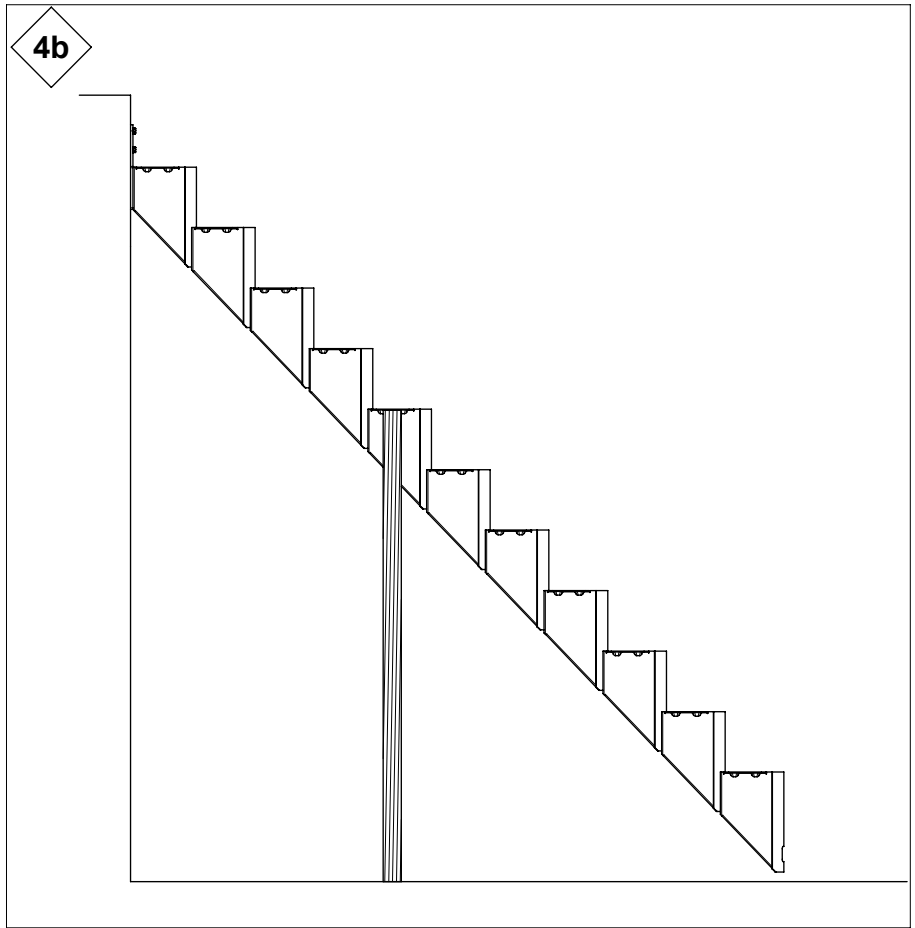
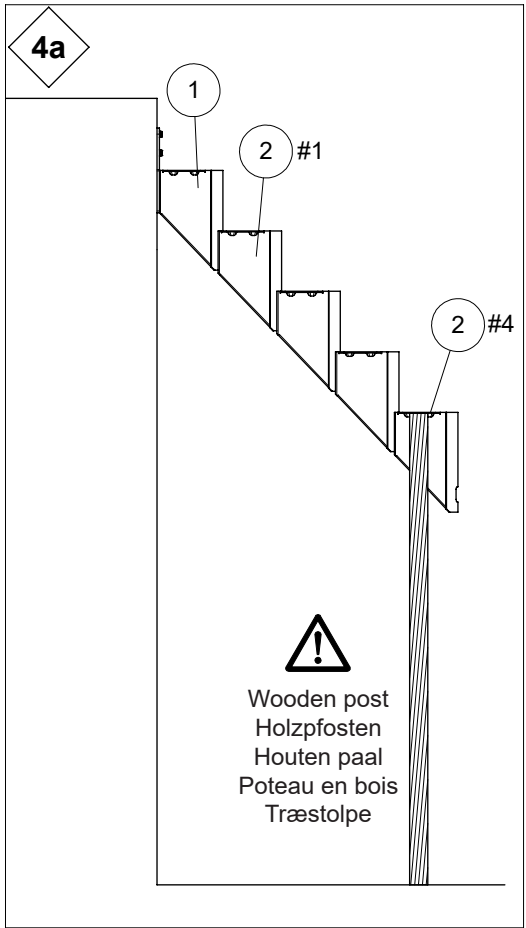


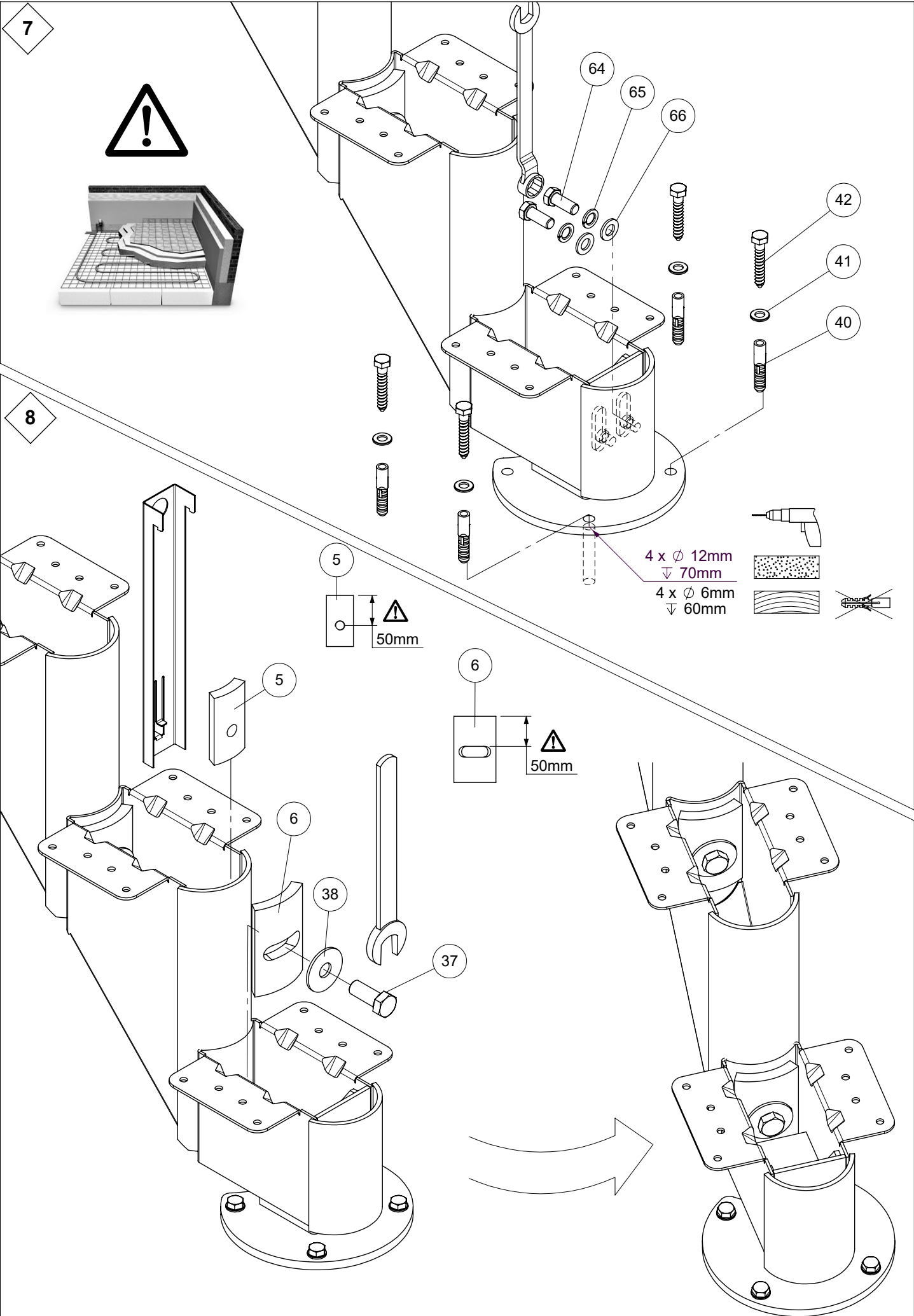


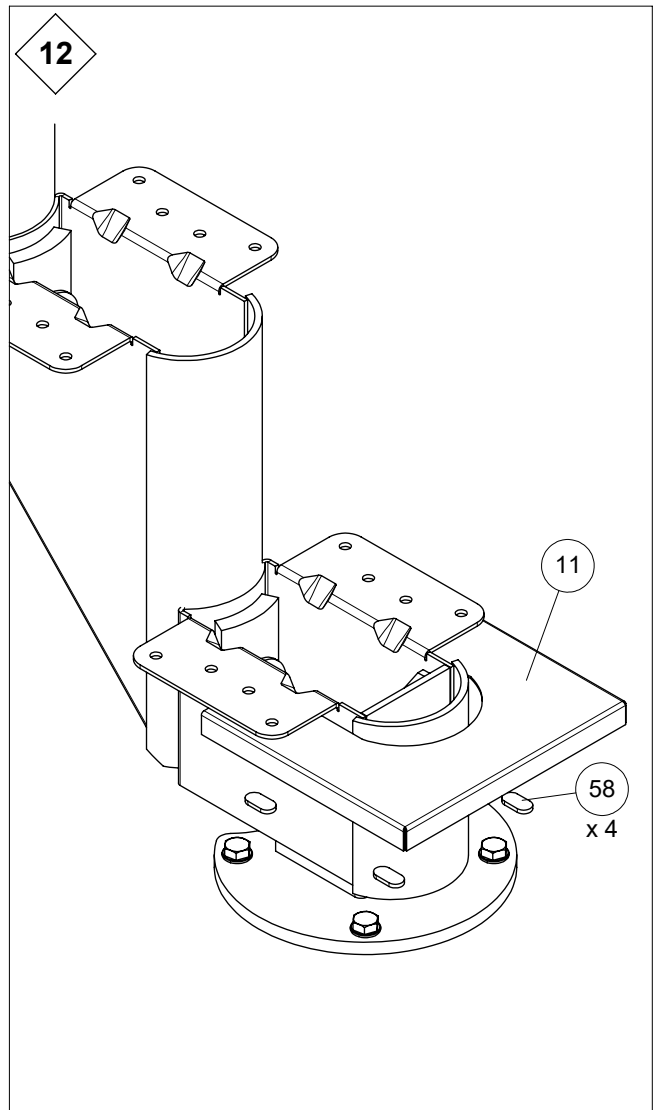
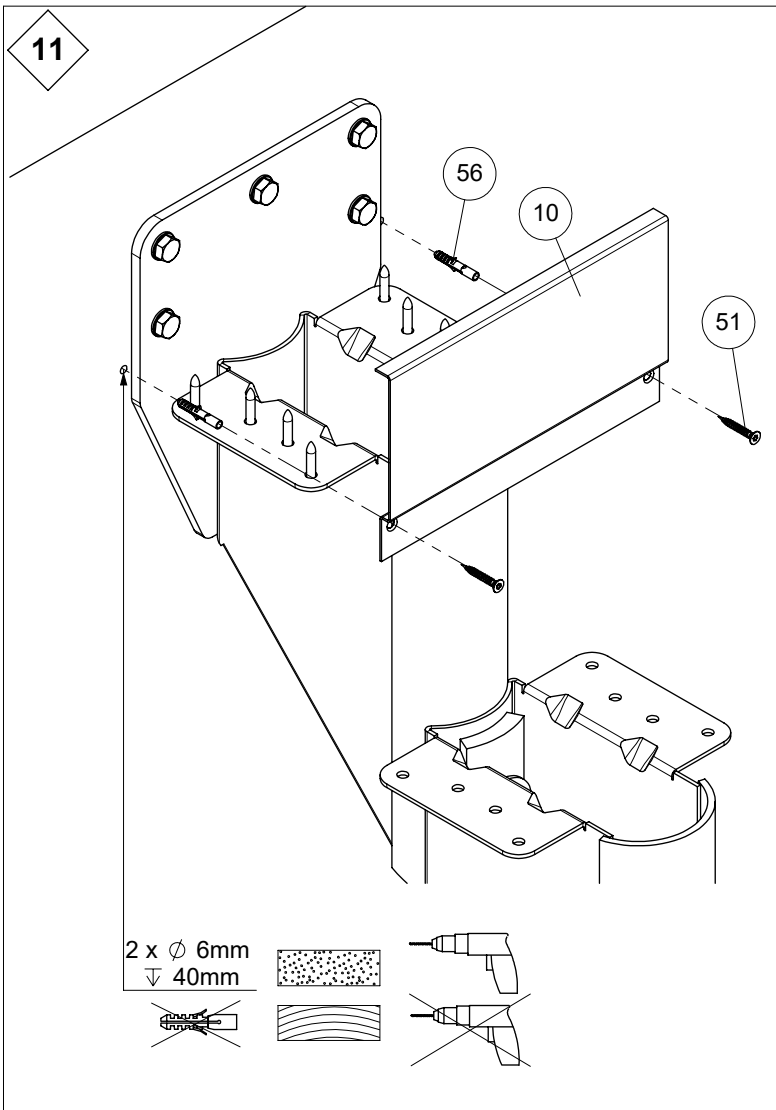
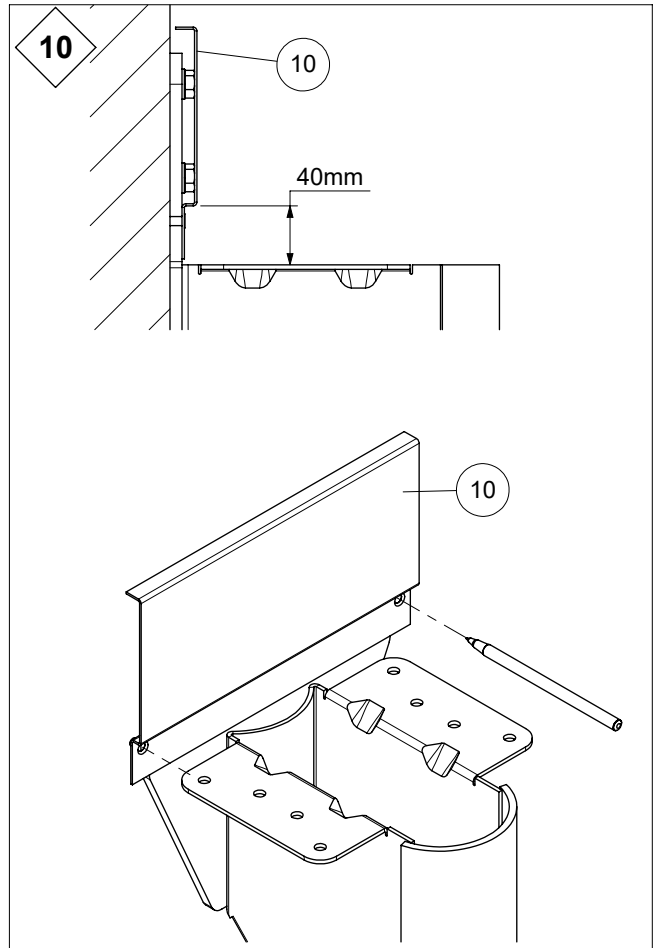
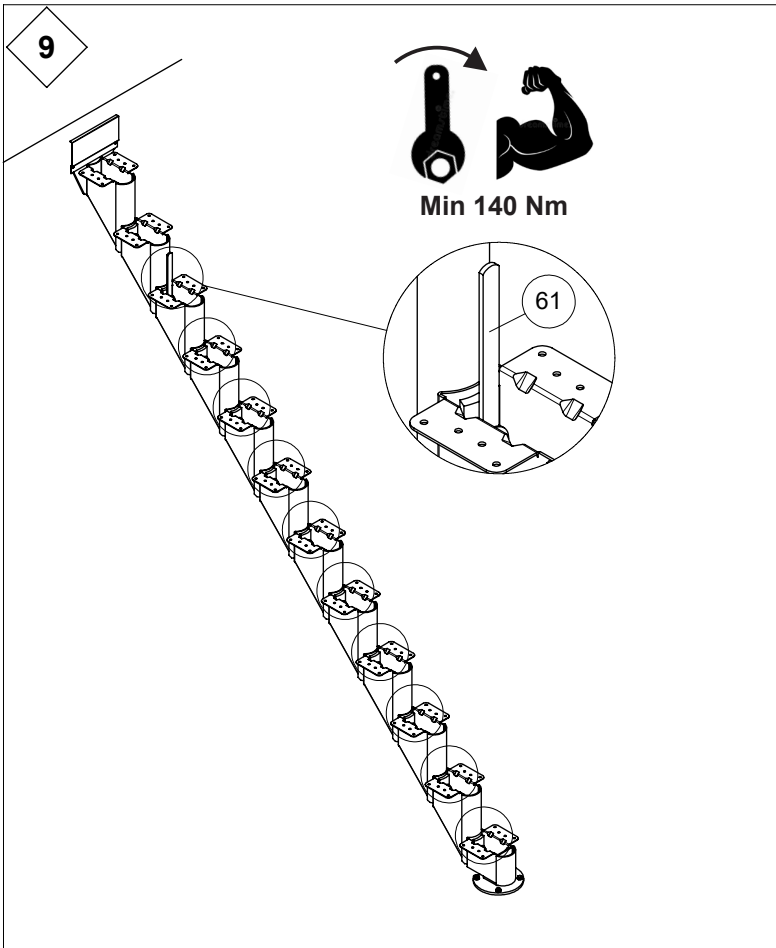


3

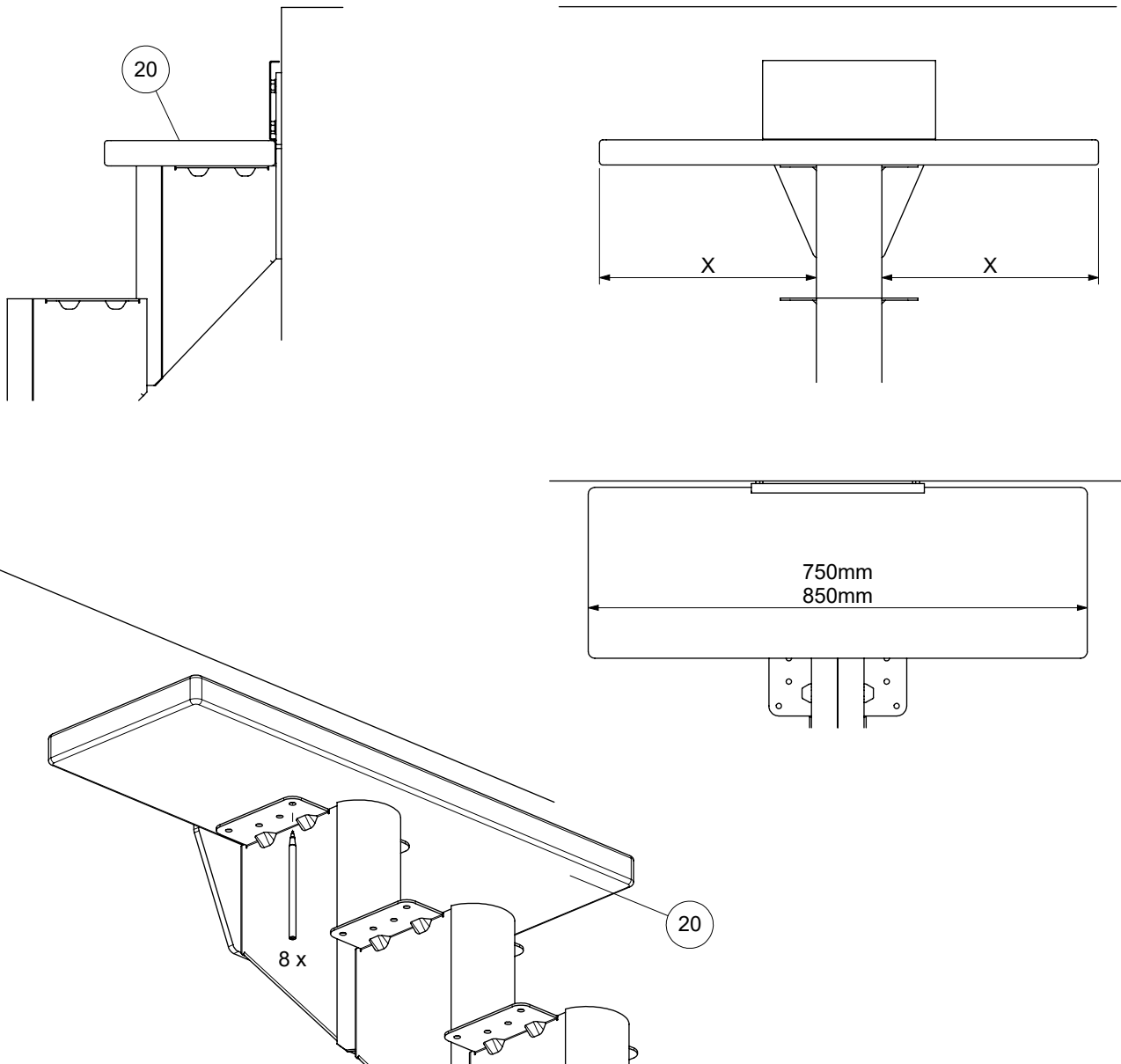




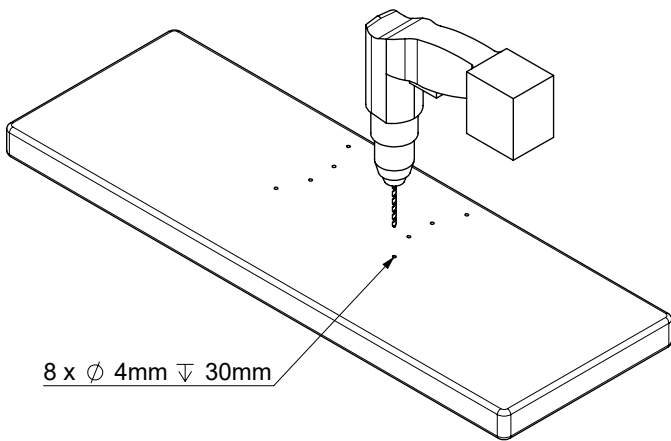




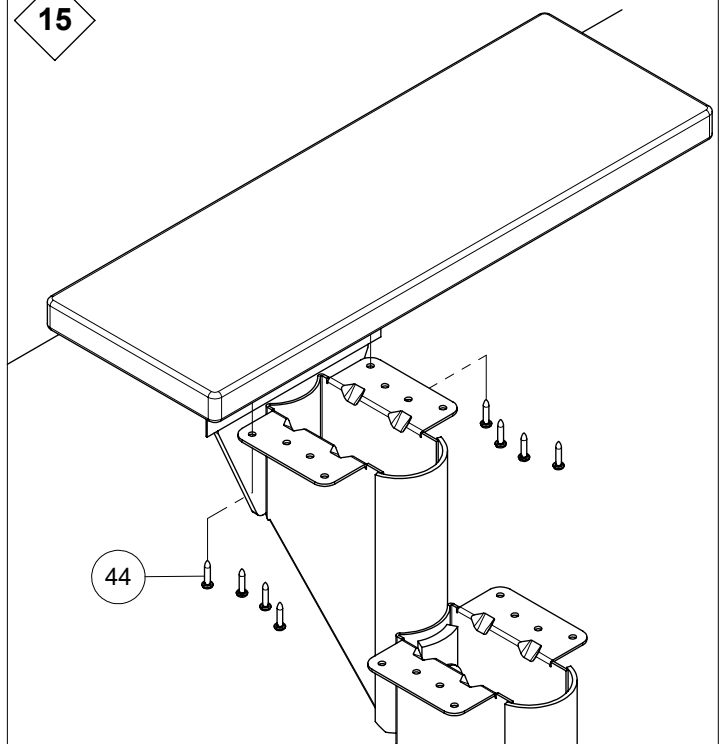
13

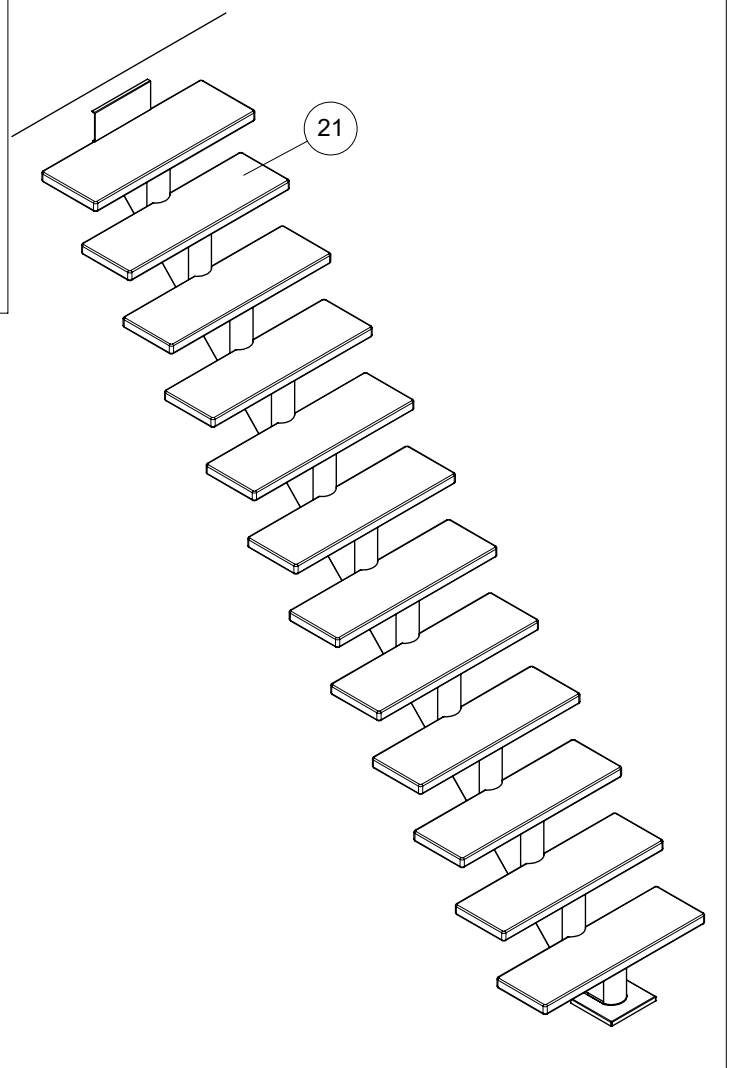
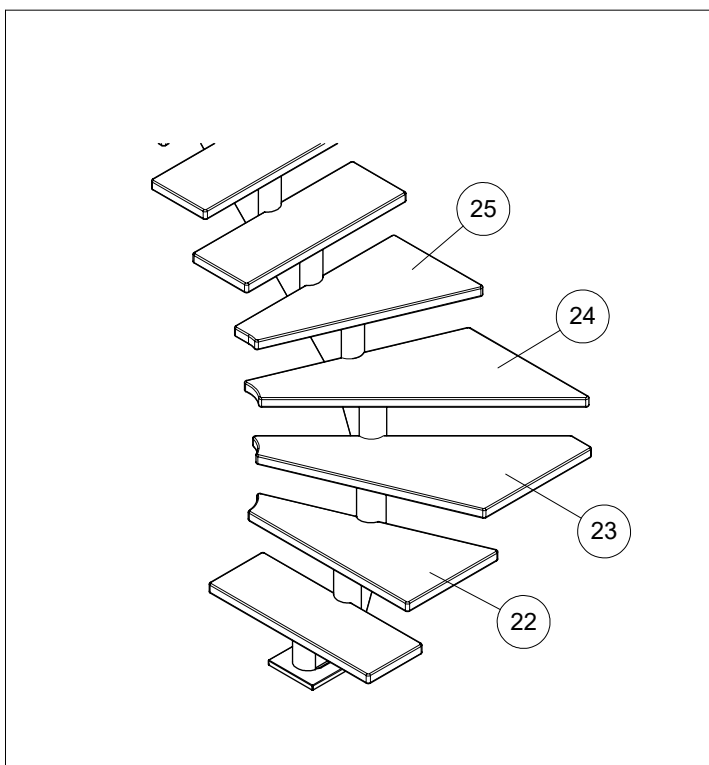
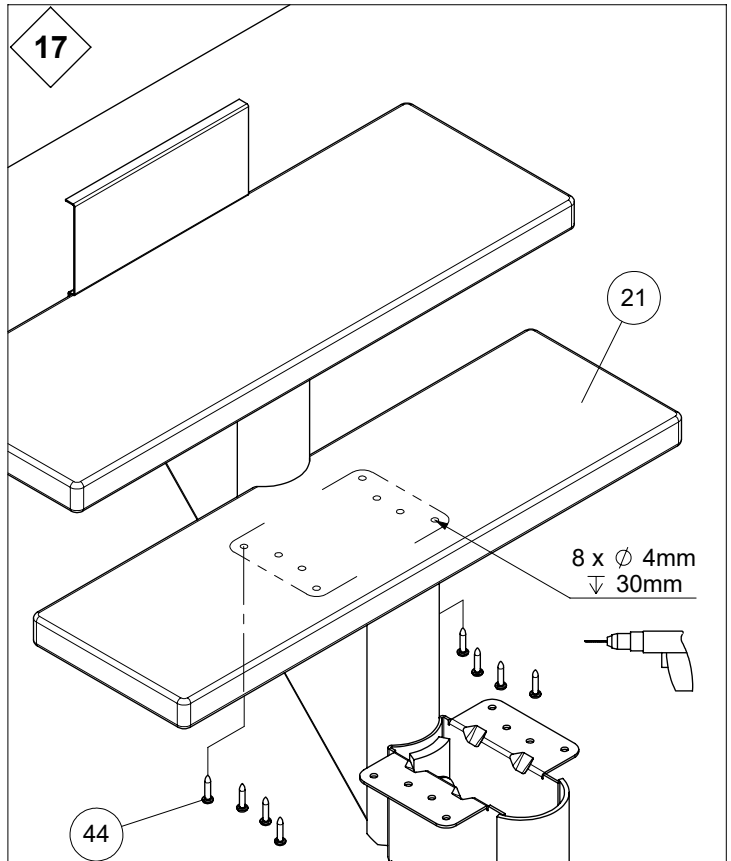
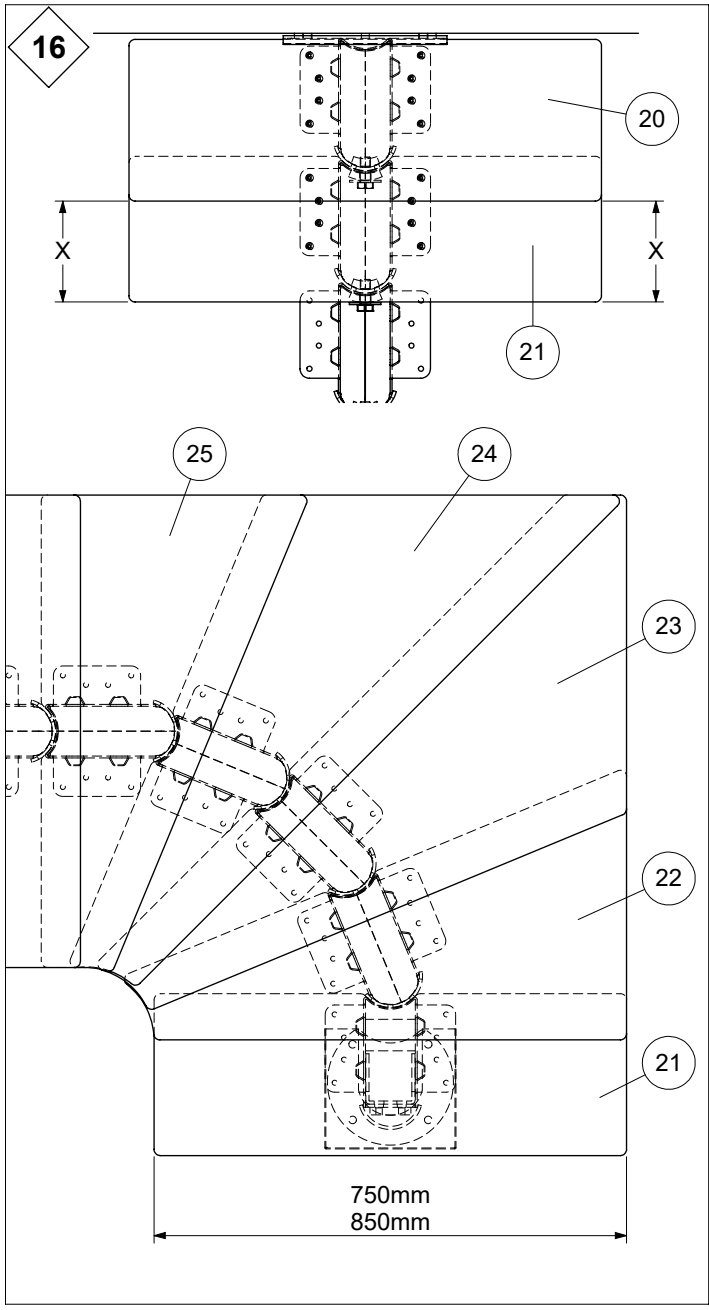


14



15







18

<b>I</b>	Mounting of wallbrackets is optional Die Montage von Wandhalterungen ist optional Montage van muurbeugels is optioneel Le montage de supports muraux est facultatif Montering af vægbeslag er valgfri
<b>L</b>	2 wall brackets in position A or B 2 Wandhalterungen in der Position A oder B 2 muurbeugels in positie A of B 2 supports mural dans la position A ou B 2 vægbeslag i position A eller B
<b>U</b>	4 wall brackets in position A or B 4 Wandhalterungen in der Position A oder B 4 muurbeugels in positie A of B 4 supports mural dans la position A ou B 4 vægbeslag i position A eller B



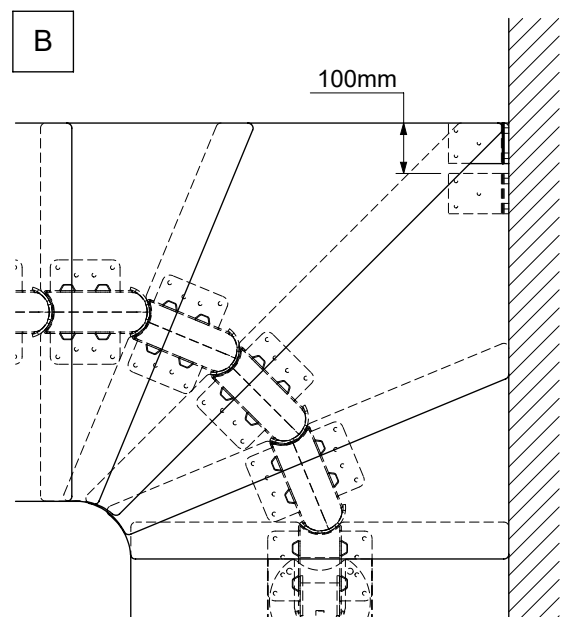
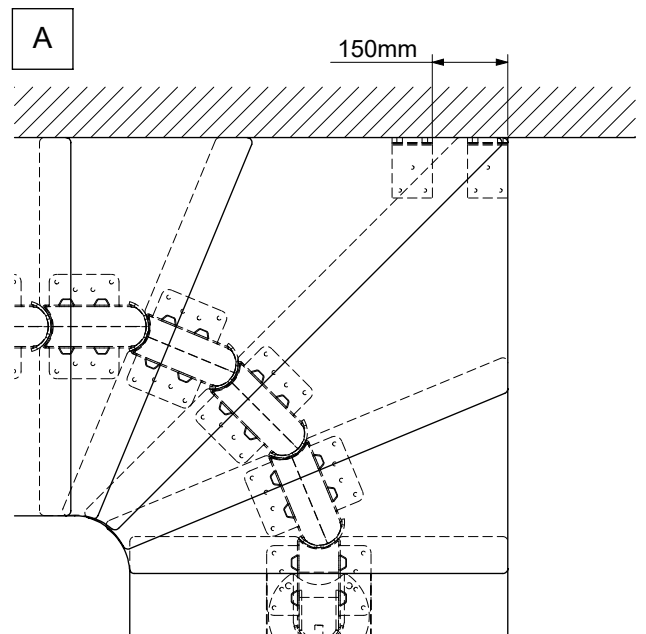
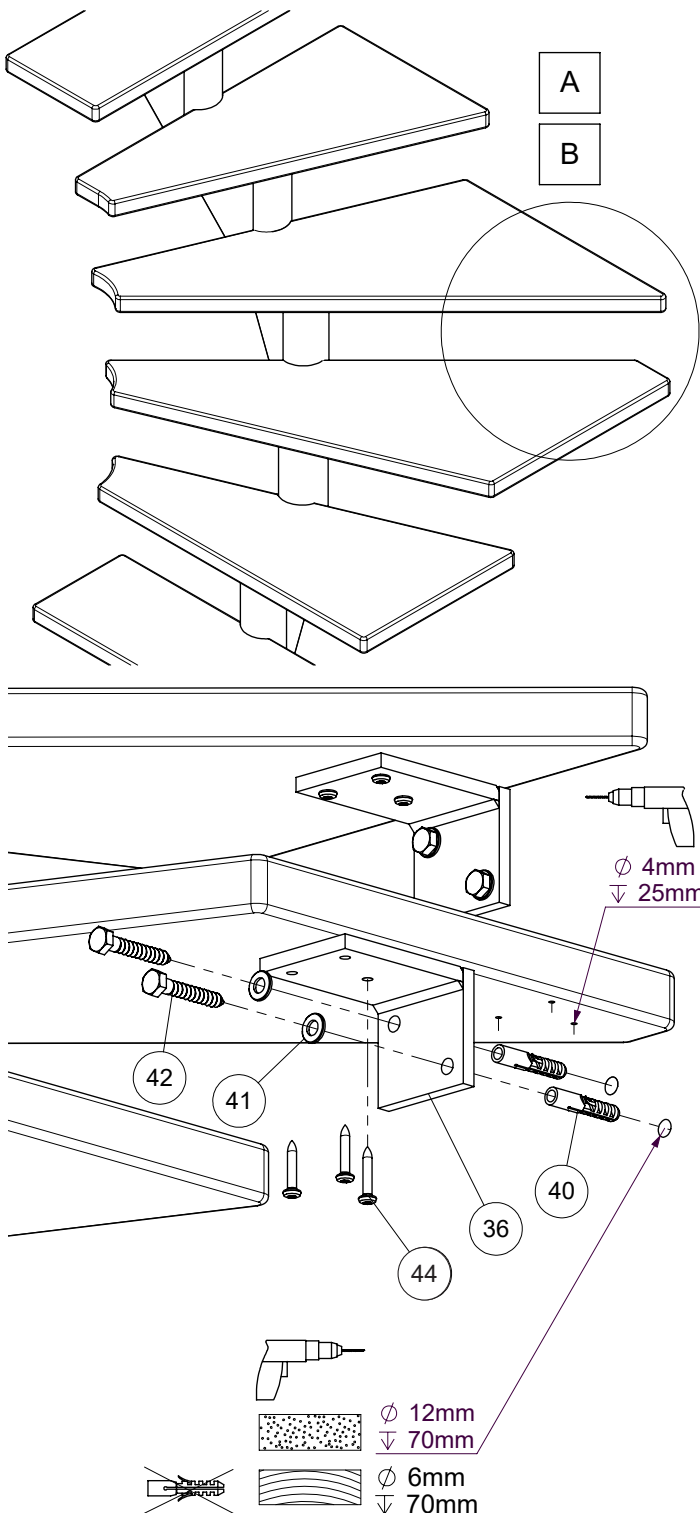
2 wall brackets must be mounted on a 1/4 turn or 4 on a 1/2 turn staircase.

2 Wandhalterungen müssen auf einer 1/4-gewendelten oder 4 auf einer 1/2-gewendelten Treppe montiert werden.

2 muurbeugels moeten gemonteerd worden op een 1/4 draai of 4 op een 1/2 draai trap.

2 supports mural doivent être monté sur un escalier 1/4 ou 4 sur un escalier 1/2 tournant.

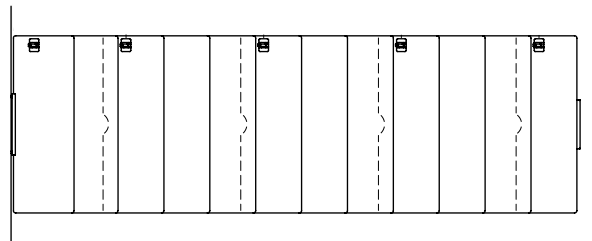
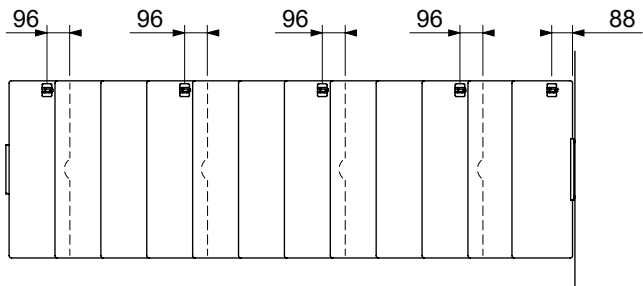
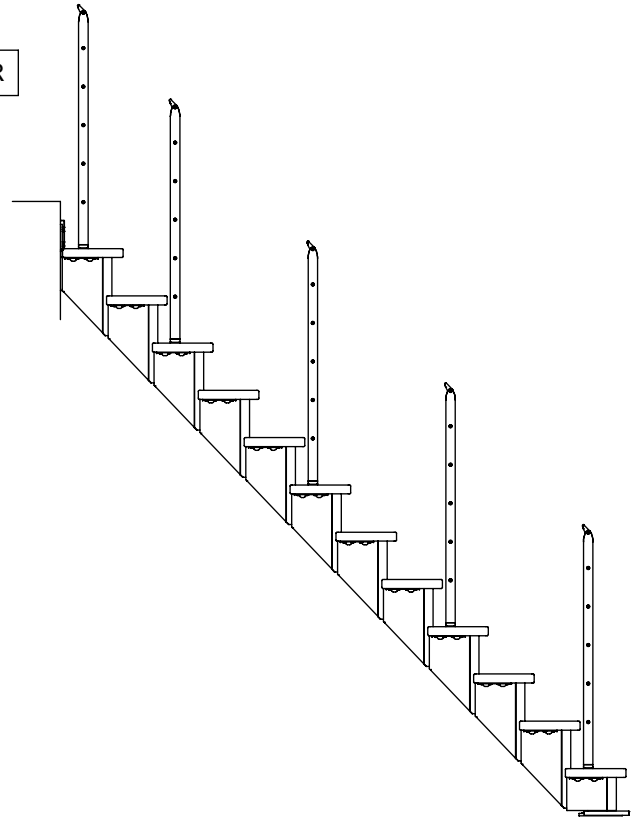
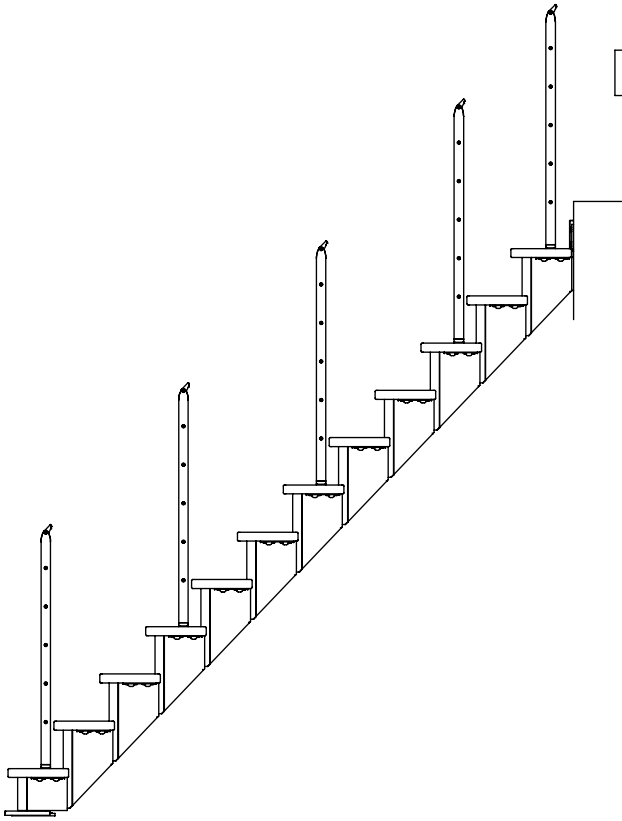
2 væginkler er påkrævet i en 1/4-svings- eller 4 i en 1/2-svings-trappe.



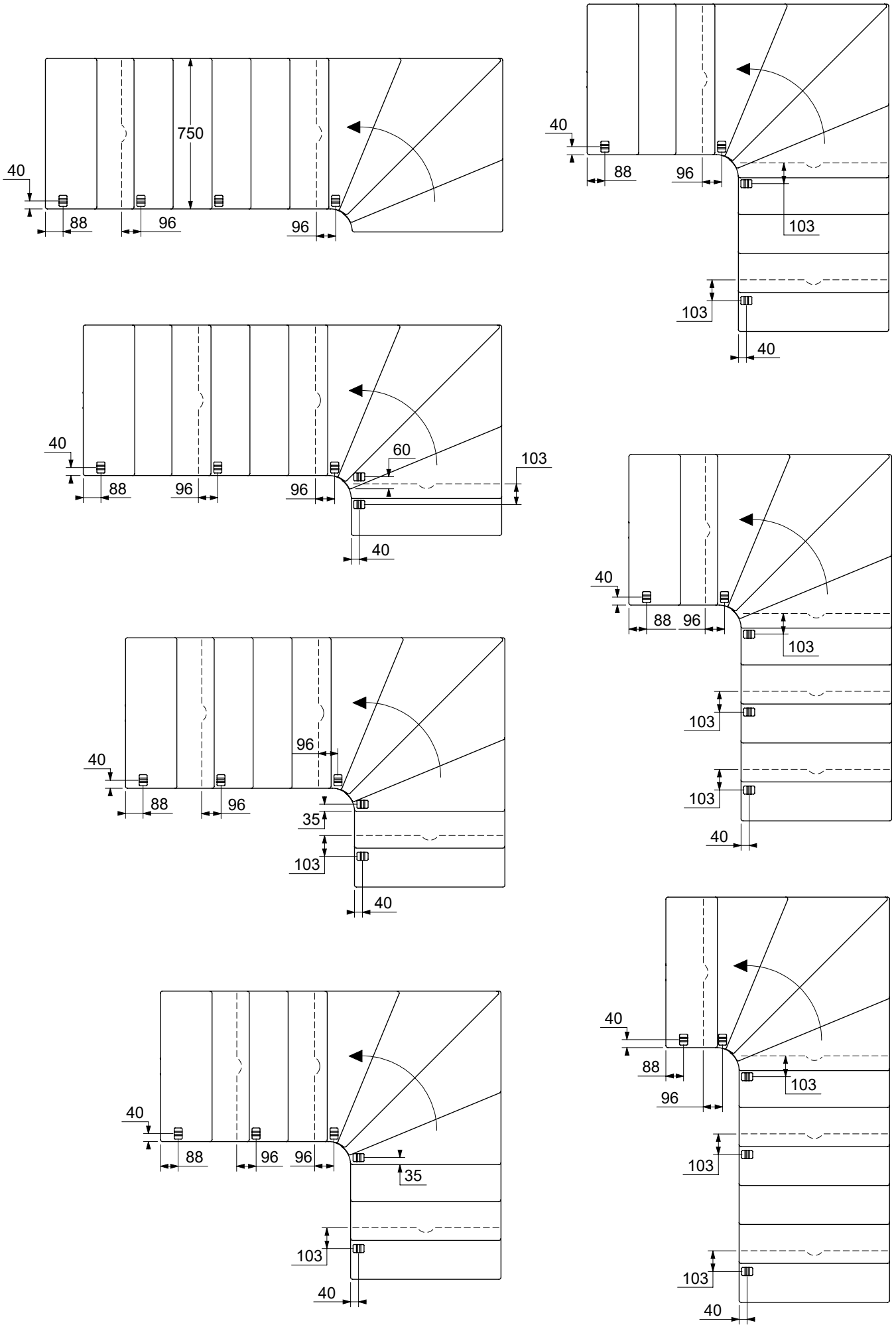


L

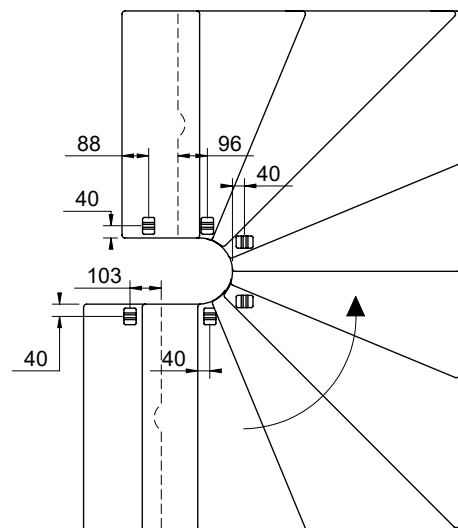
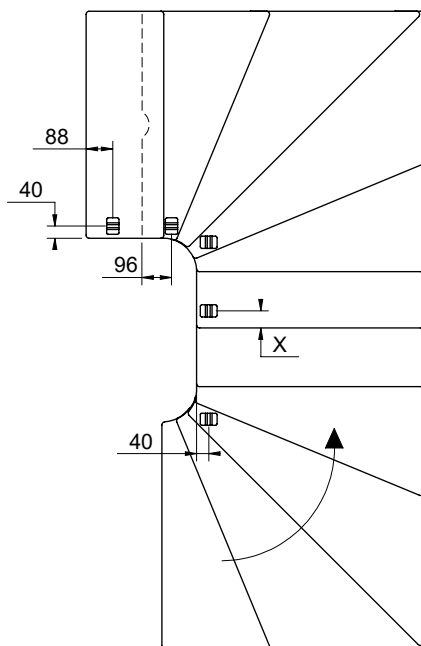
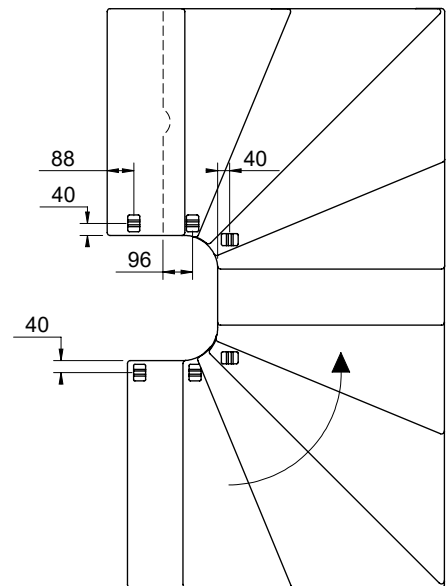
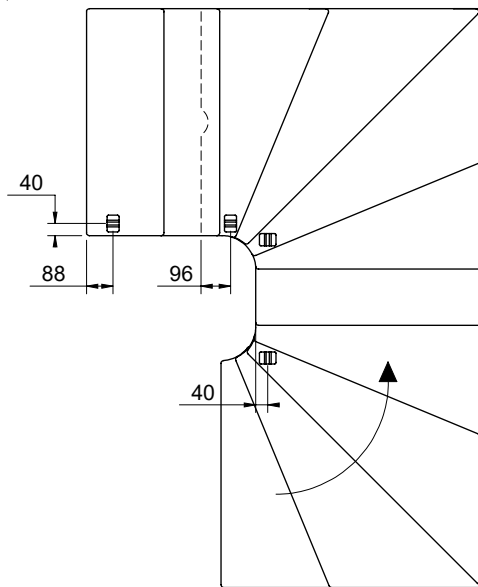
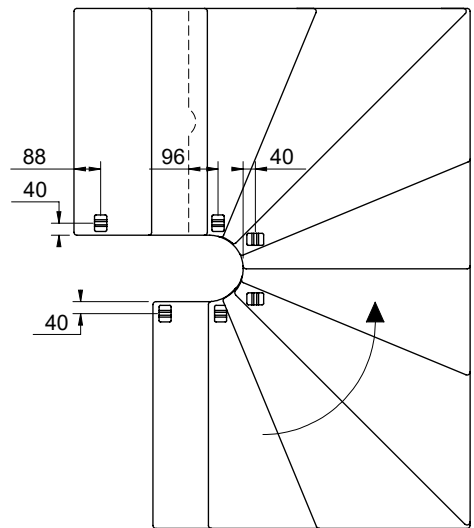
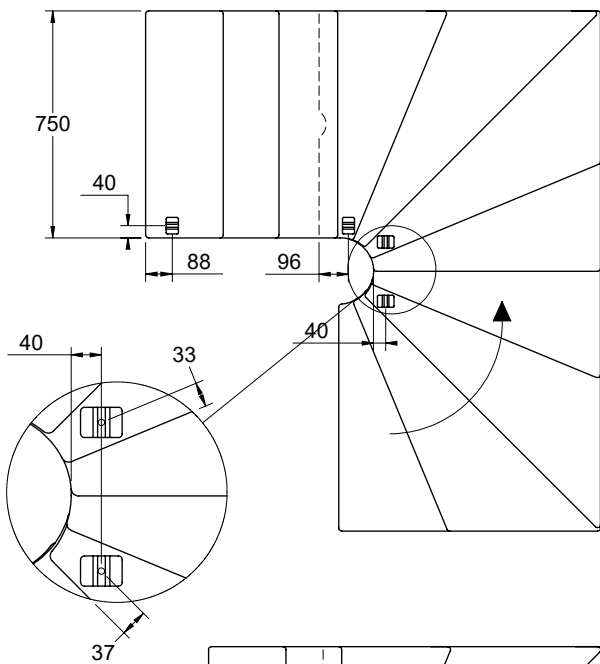
R



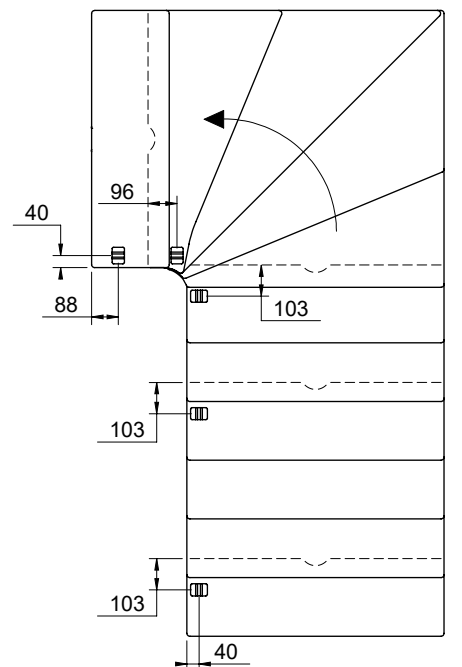
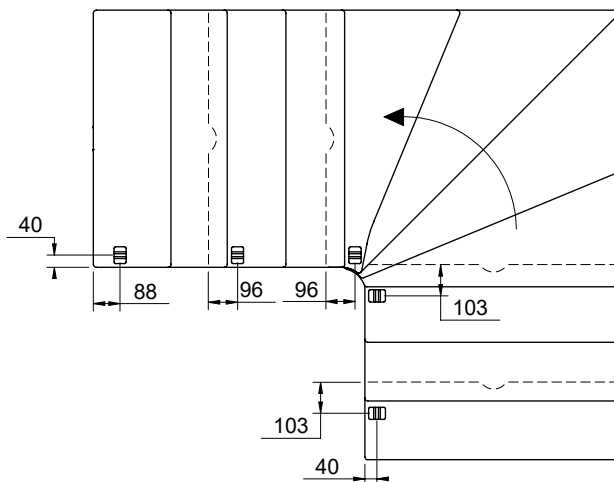
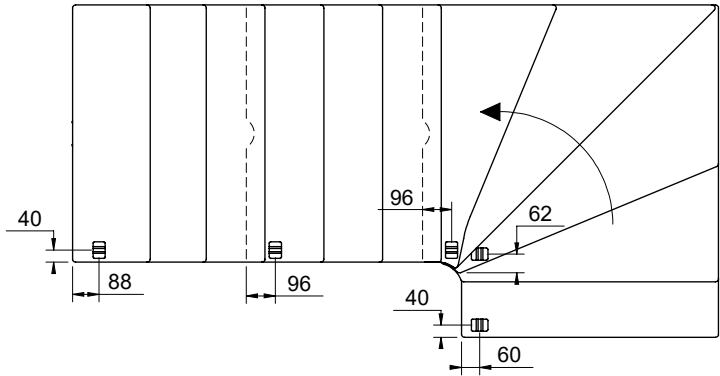
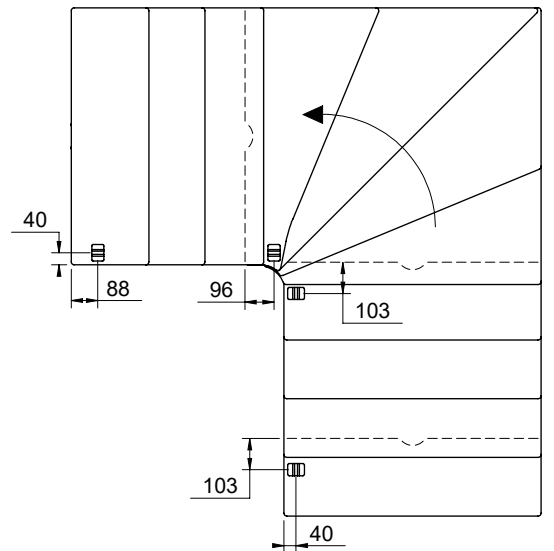
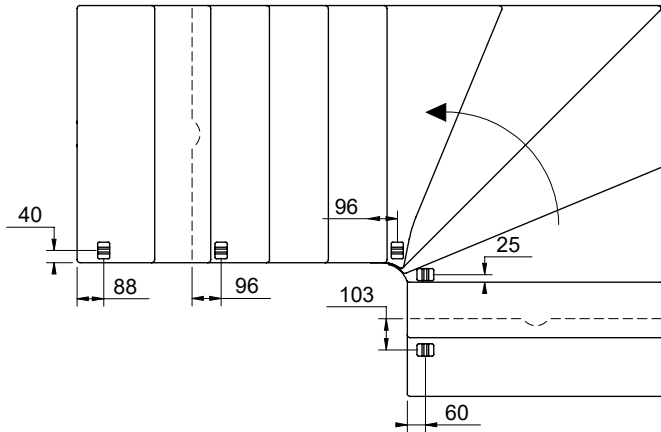
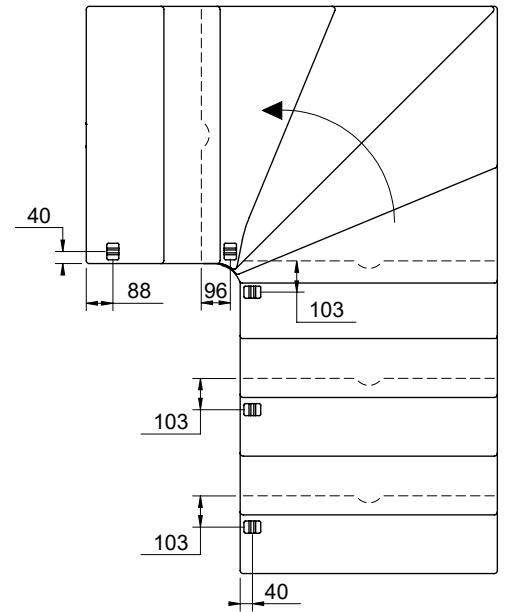
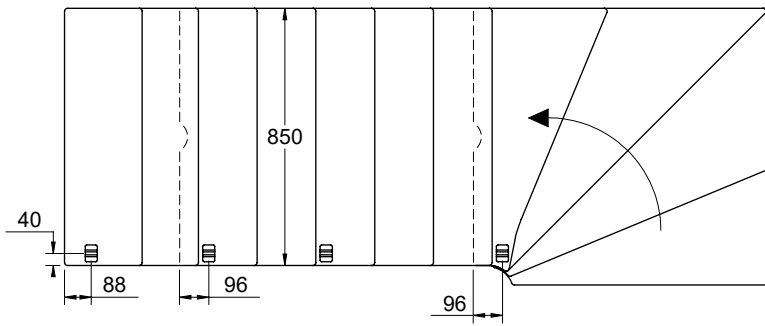
# L 750 mm



# U 750 mm



# L 850 mm



# U 850 mm

