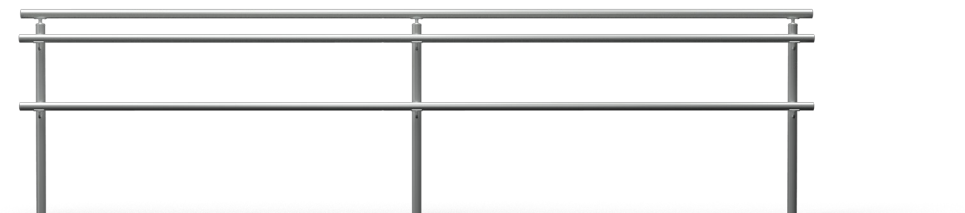


OPTI

SV Monteringsanvisning | EN Installation instruction



Innehåll | Contents

1. Varianter Versions	2
2. Dimensioner Dimensions	3
3. Montering av stolpar Flat surface	5
4. Handedarhållare Measuring and installation	5
5. Handedare och toppföljare Handrail and top rail	6
6. Trappa med fast rörböj 26,6° Stairs with angled rail piece 26,6°	7
7. Trappa med variabel led Stairs with variable joint	9
8. Spjälmoduler Balustrades	11
9. Glasmoduler Glass modules	11
10. Spjälmoduler i lutning Balustrades in slope	12
11. Spjälmoduler i trappa Balustrades in stairs	13
12. Räckesavslut End caps	14
13. Hörn och vinkling Corners and angling	14
14. Grindar Gates	15
15. LED-belysning LED lightning	18

Appendix

A. Revisionsförteckning Revision list	19
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i Information

- SV | Ingjutning / Fastbultning / Nedgrävning
För beskrivning av montering i underlag, se separat anvisning för fundamentering.
- EN | Casting / Boltning / In-ground anchoring
For a description of installation in the ground, see separate instructions for anchoring.

1. Varianter | Variants



OPTI hängräcke
OPTI top rail



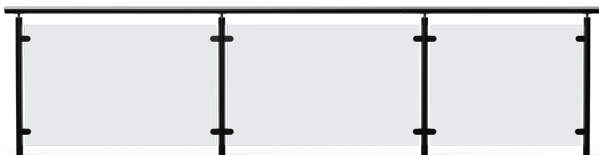
OPTI handledarräcke
OPTI banister railing



OPTI spjälmodul
OPTI balustrade



OPTI handledarräcke med spjälmodul
OPTI balustrade railing with banister



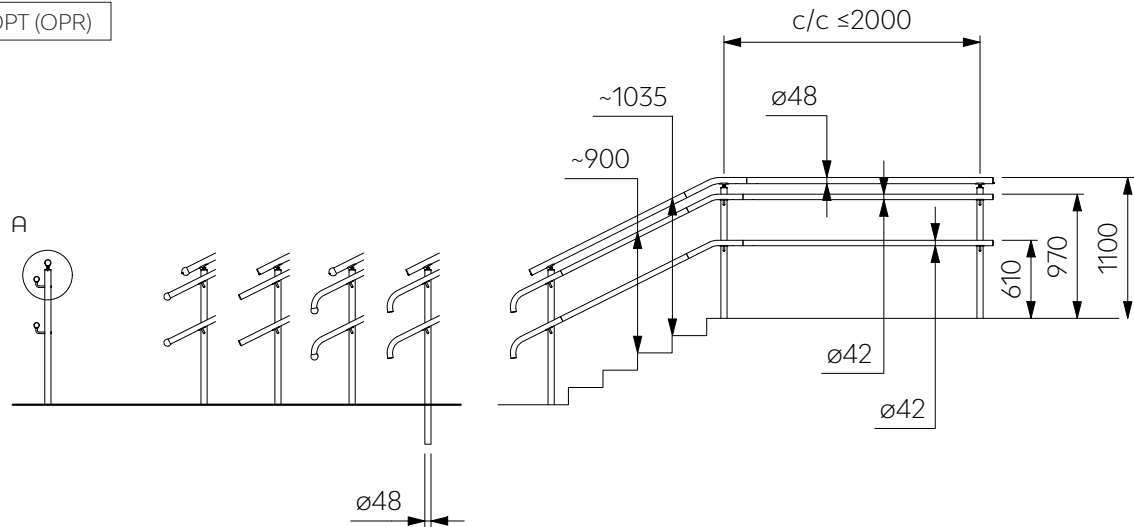
OPTI glasmodul
OPTI glass railing



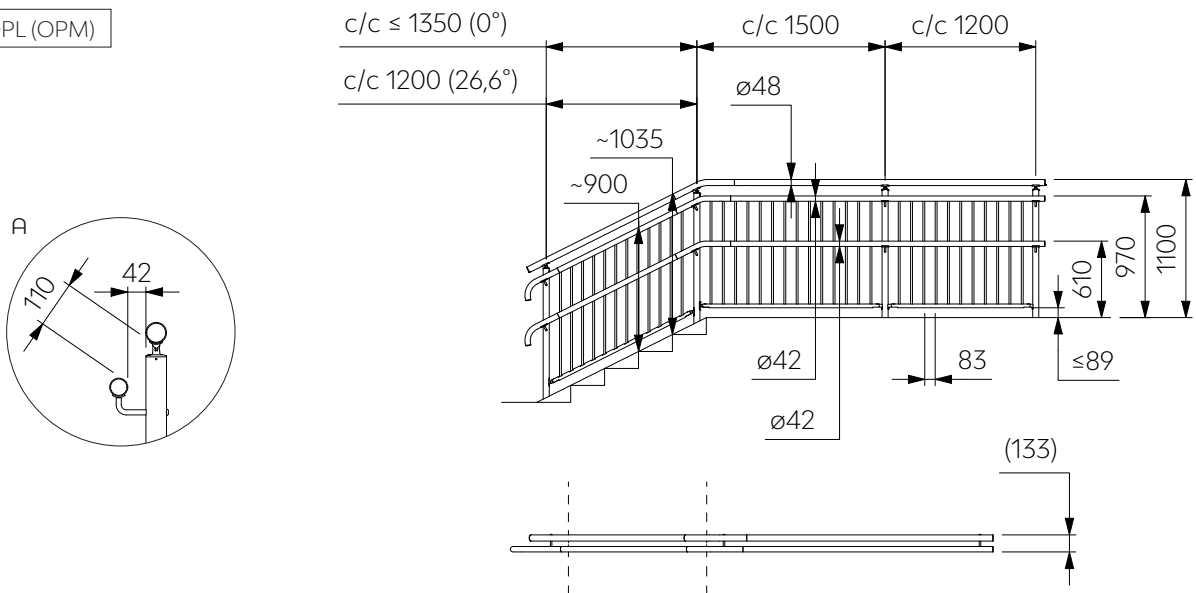
OPTI spjälgrind
OPTI balustrade gate

2. Dimensioner | Dimensions

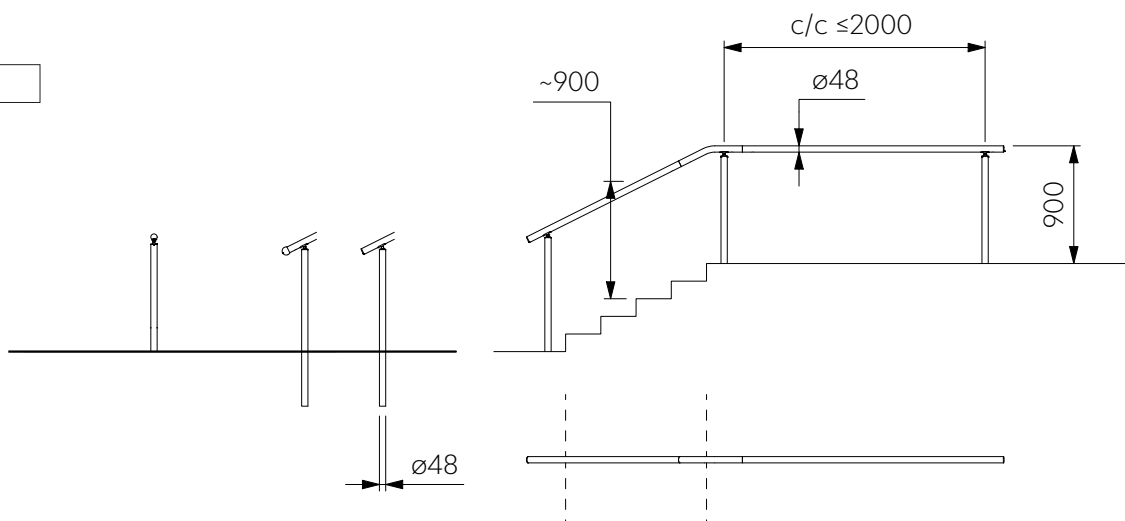
OPT (OPR)

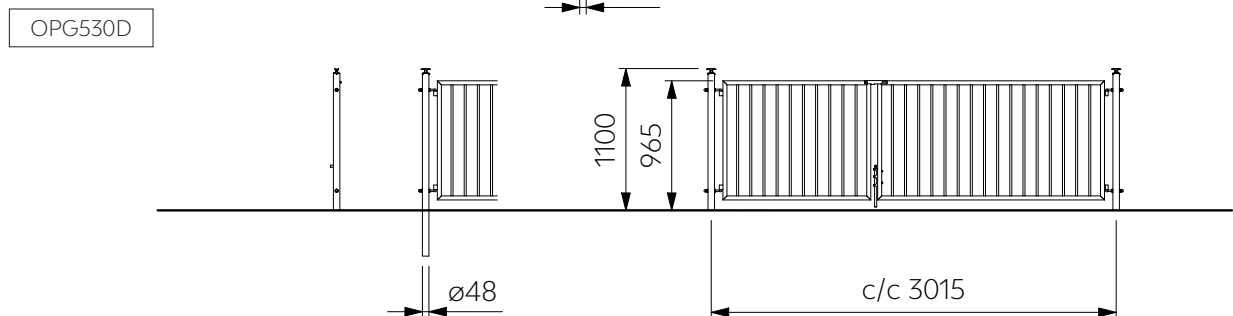
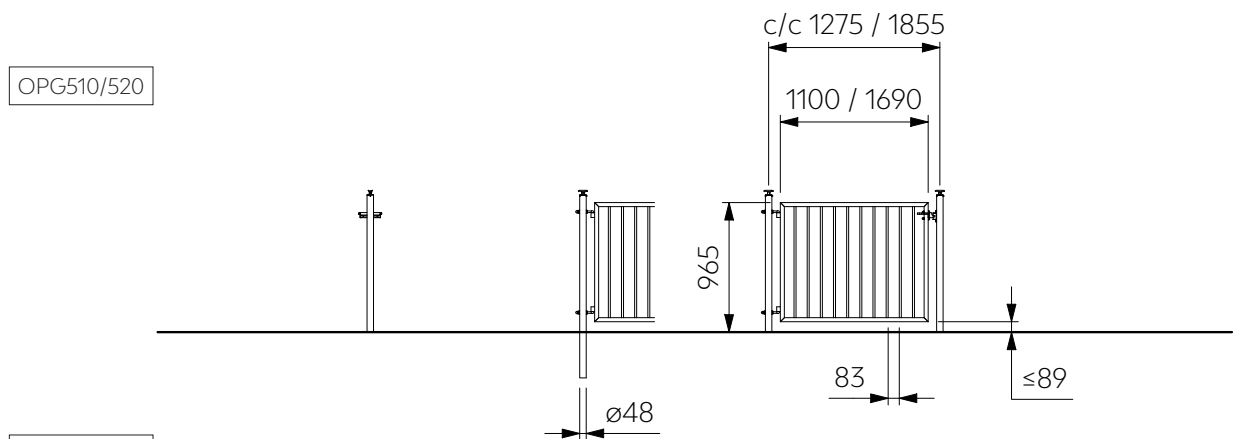
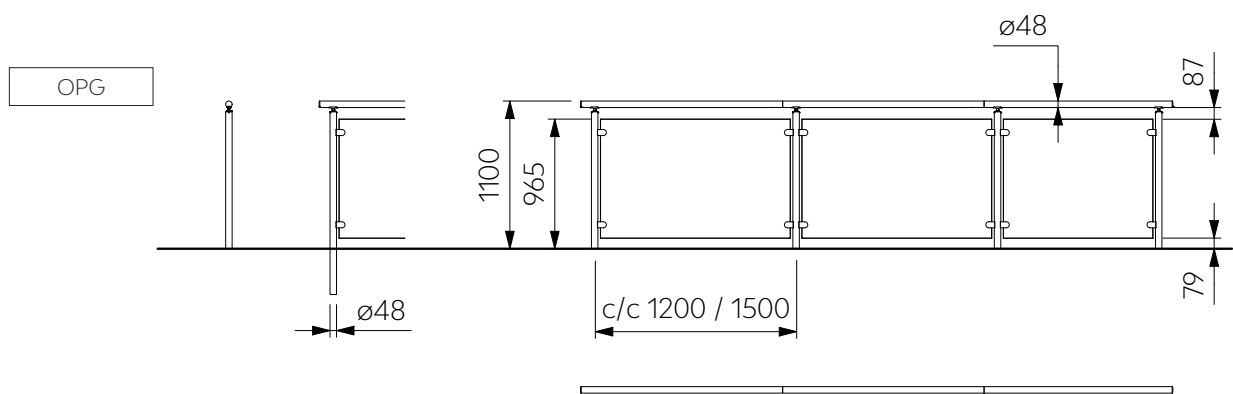
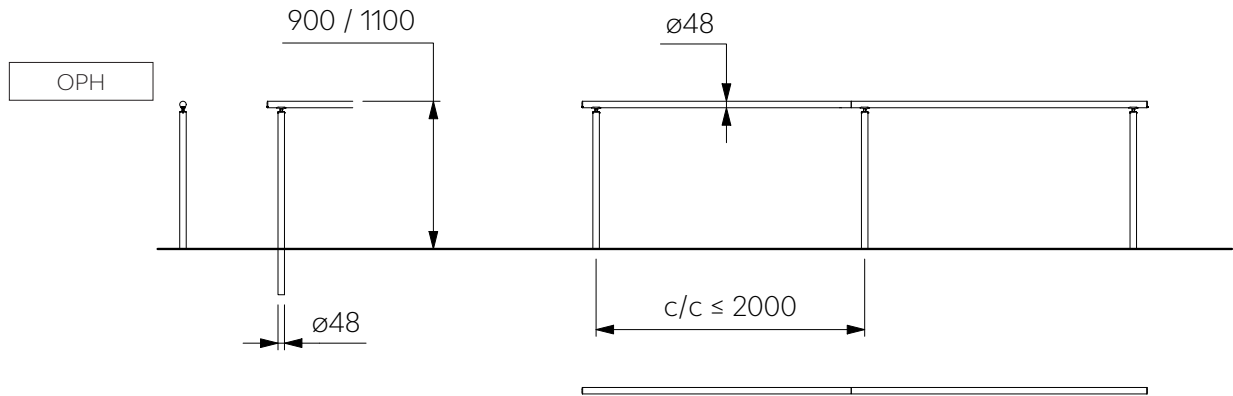


OPL (OPM)



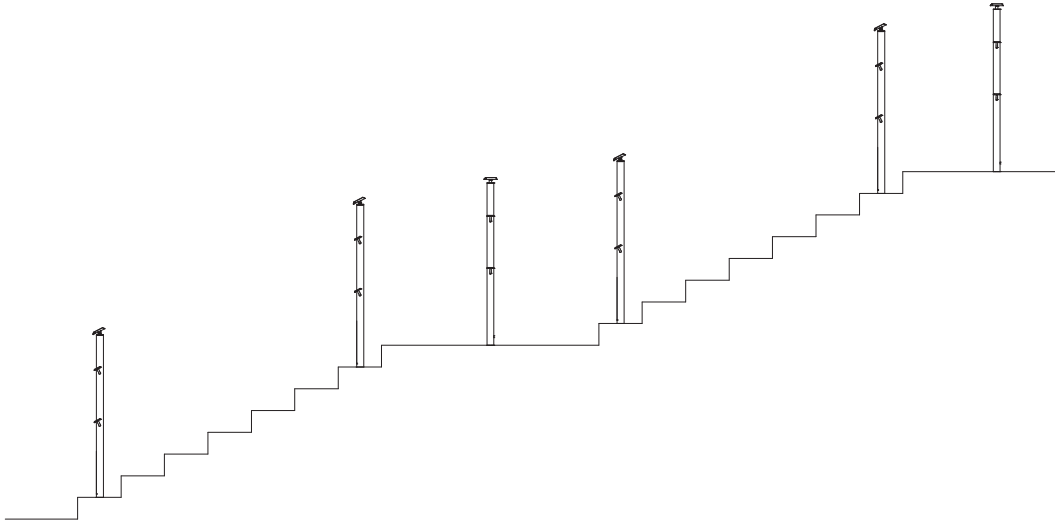
OPA





3. Montering av stolpar | Installation of railing posts

- | | | | |
|----|--|----|---|
| SV | <ul style="list-style-type: none"> Positionera stolpar med distans c/c enligt gällande projektritning. Fixera med fundament eller ingjutning. För branta lutningar rekommenderas extra långa nedgrävningsfundament. | EN | <ul style="list-style-type: none"> Place the posts acc. to project drawing. Fasten the posts with ground brackets/anchors or casting. For steep slopes, extra long ground anchors are recommended. |
|----|--|----|---|



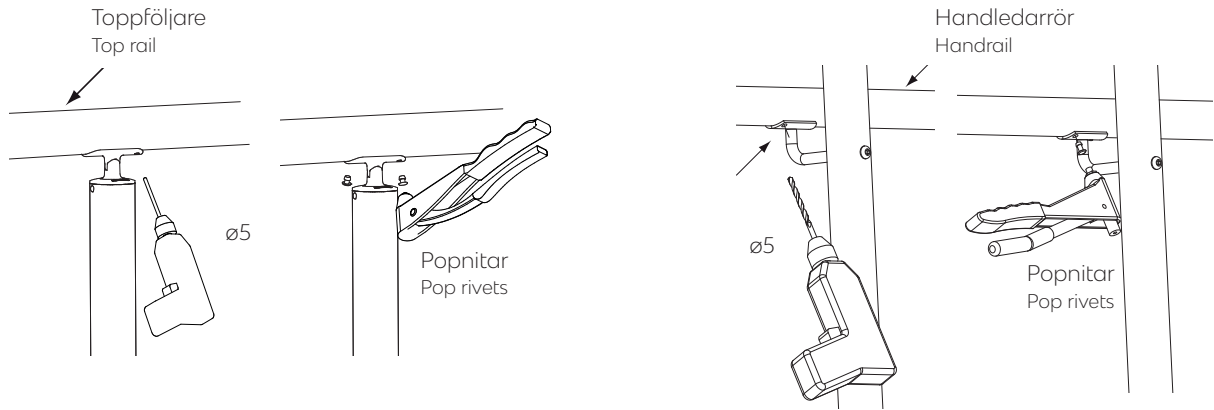
4. Handledarhållare | Handrail brackets



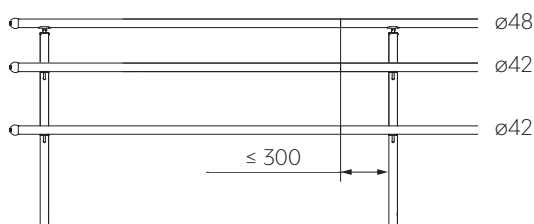
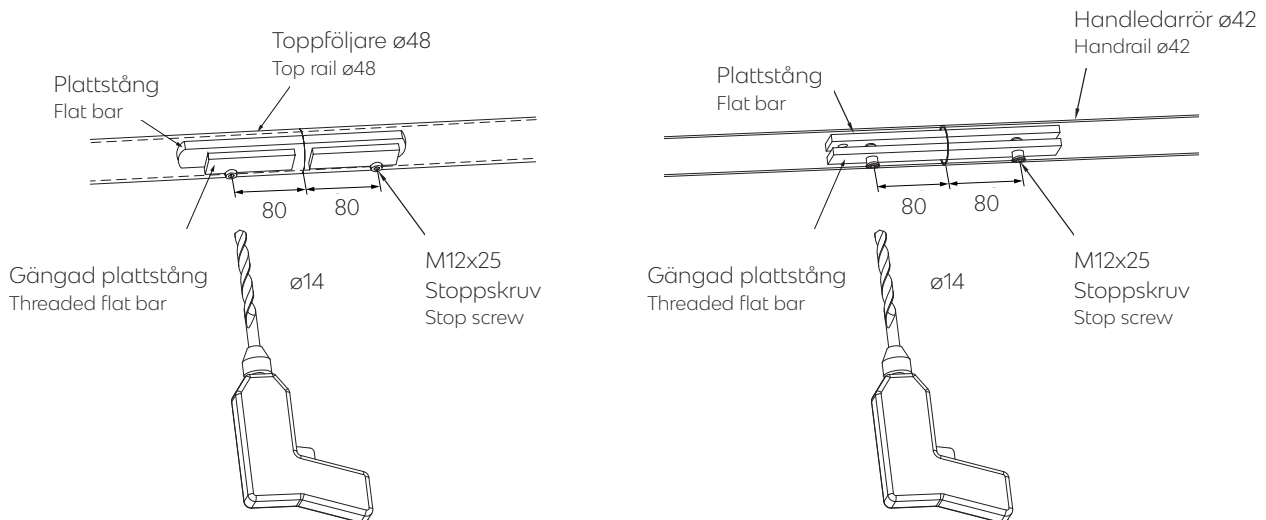
- | | |
|----|--|
| SV | Skruva bara så hårt att hållaren fortfarande går att rotera. |
| EN | Screw just enough that the holder can still be rotated. |

5. Handledare och toppföljare | Handrail and top rail

1 Fixering mot stolpe | Fastening to post



2 Skarvsatser | Joint sets



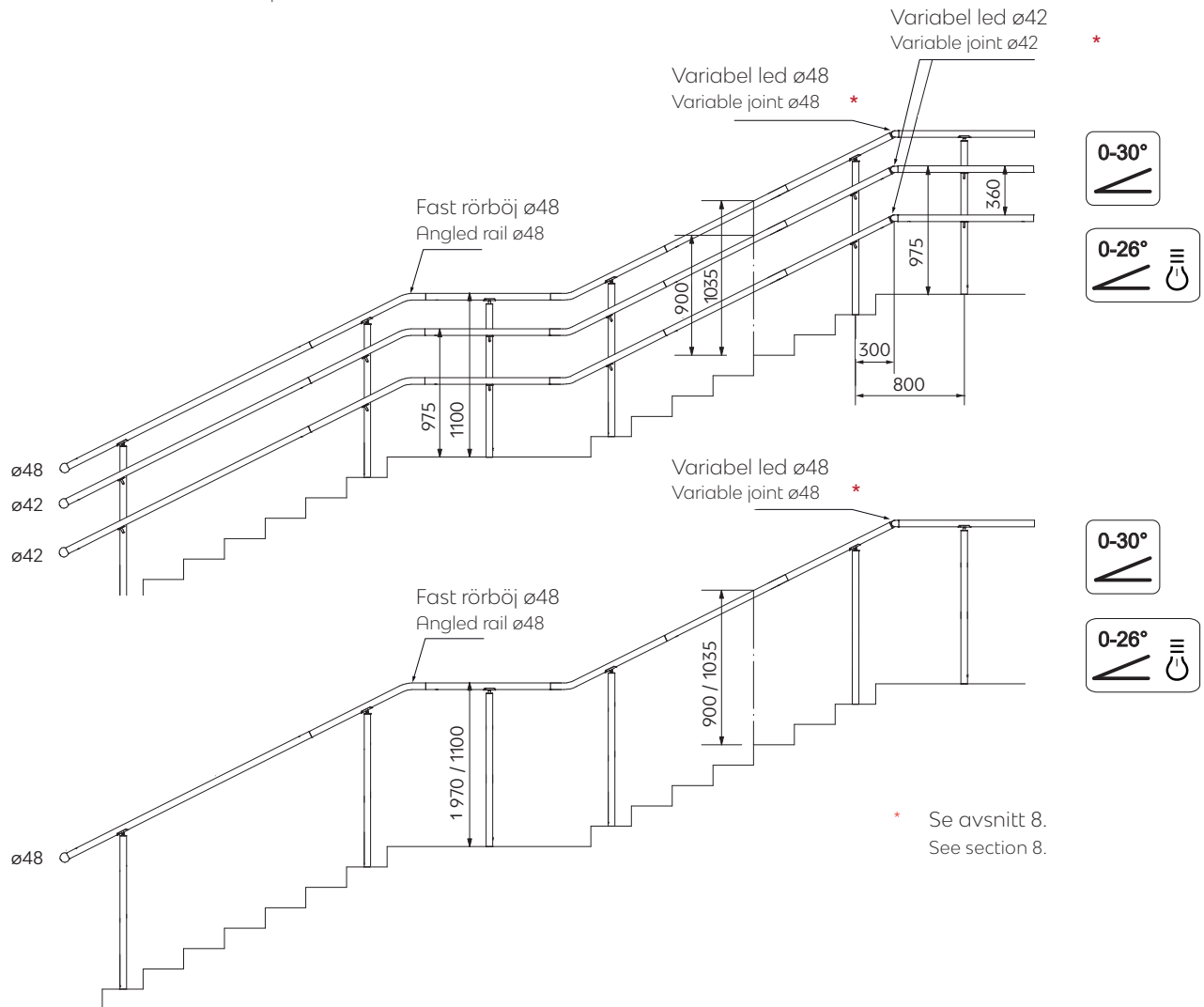
SV | Max 300 mm mellan stolpe och skarv.
Om rören tillkapats borras nya hål $\varnothing 14$.

EN | Max 300 mm between post and joint.
If the rails have been cut, drill new holes $\varnothing 14$.

6. Trappa med fast rörböj 26,6° | Stairs with angled rail piece 26,6°

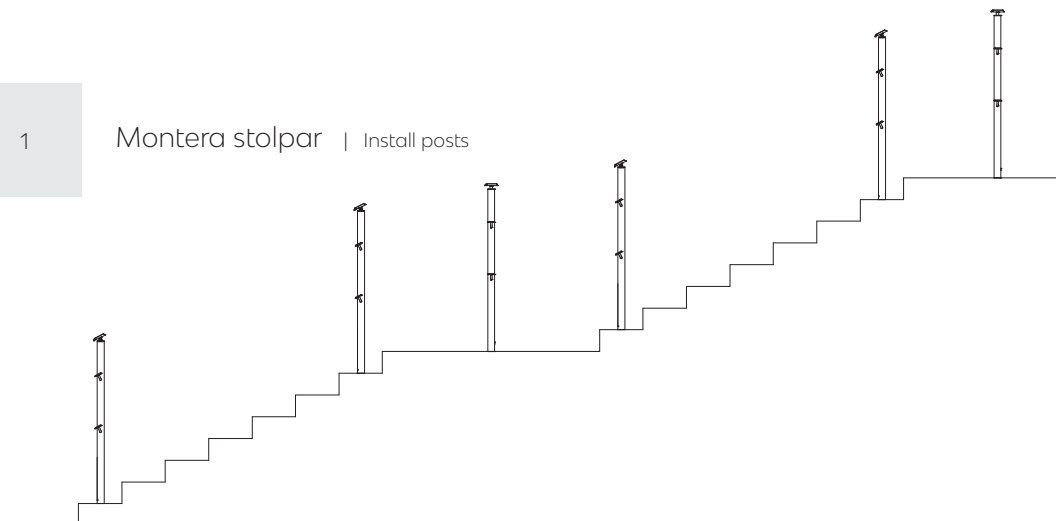
SV | I övergången mellan vilplan och trappa bör avståndet mellan stolpar inte överstiga 800 mm.

EN | In the transit between the landing and the stairs, the distance between posts should not exceed 800 mm.



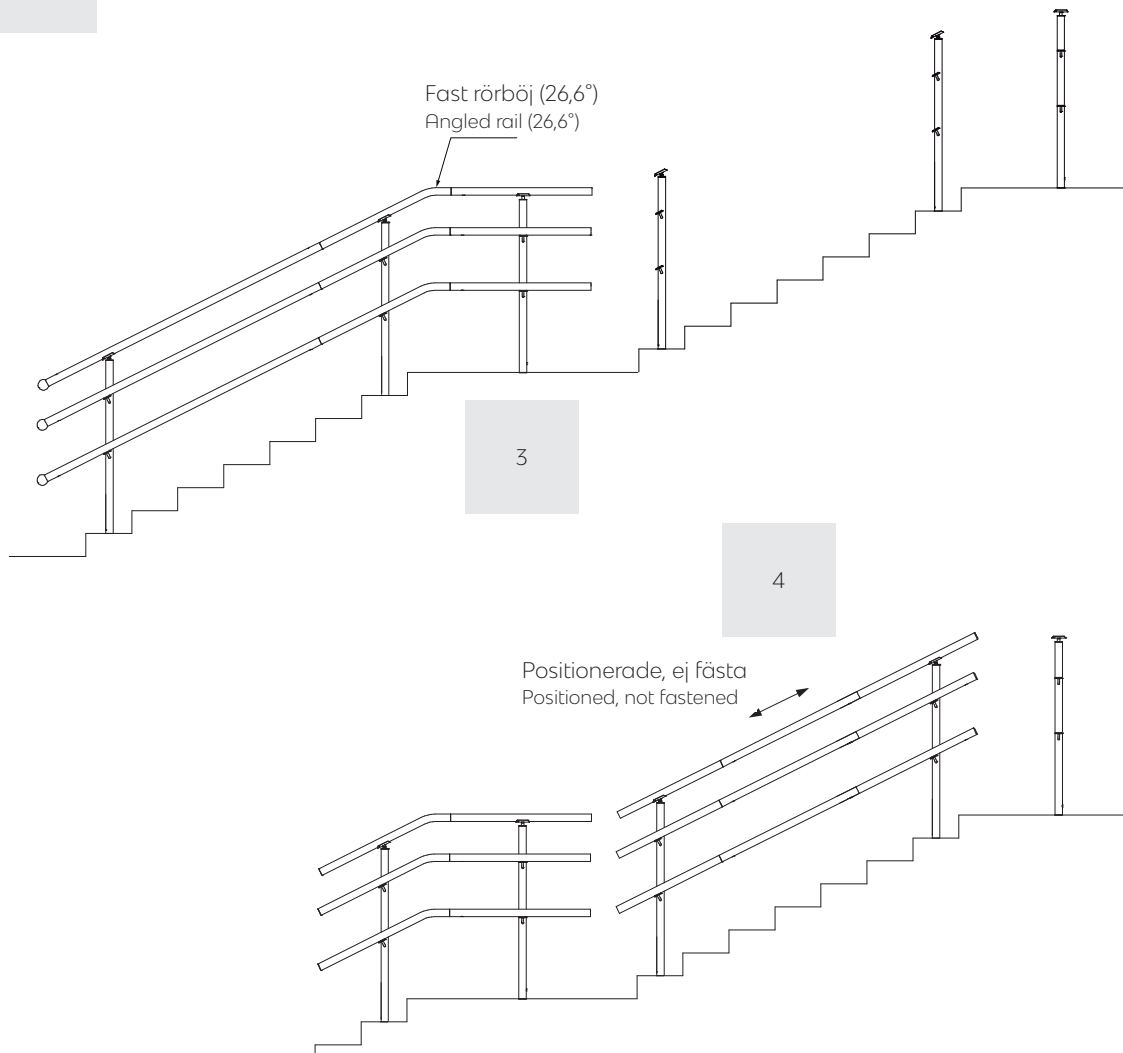
1

Montera stolpar | Install posts



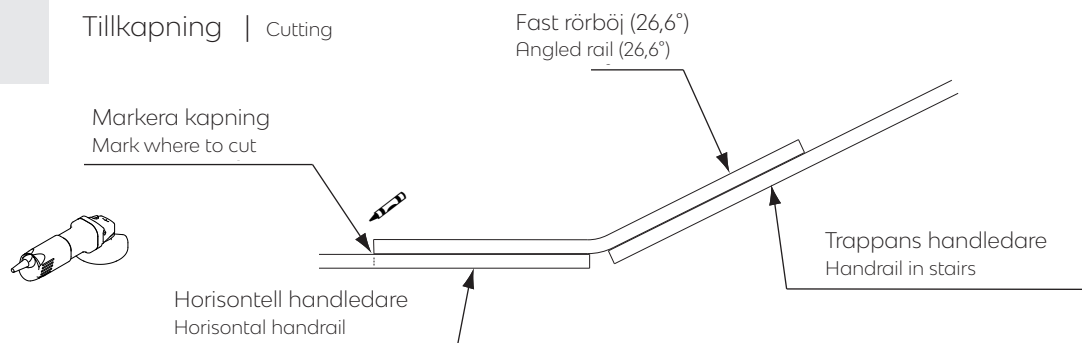
2

Montera räcketrör, starta nerifrån | Install rails, start from the bottom



5

Tillkapning | Cutting

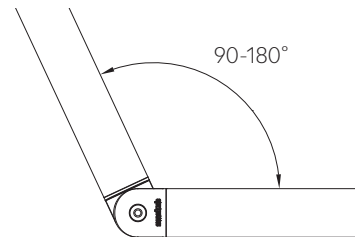
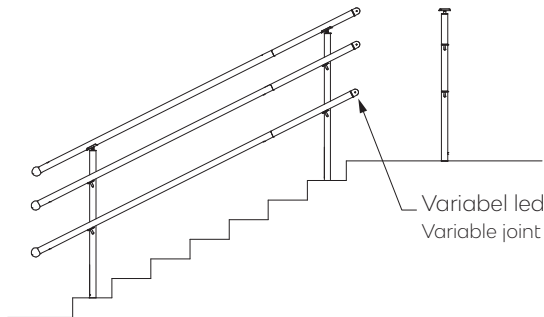


7. Trappa med variabel led | Stairs with variable joint

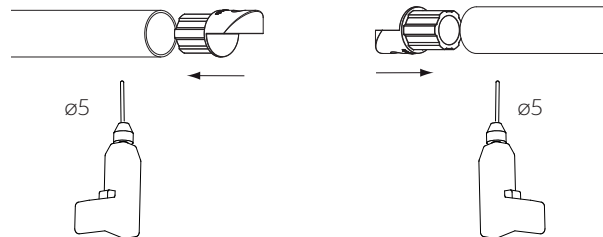
Handledare $\varnothing 42$ mm | Handrail $\varnothing 42$ mm

- SV
- Anpassa rörens längd så leden hamnar på rätt position.
 - Popnitar ska alltid vara på handledarens undersida.
 - Borra $\varnothing 5$ mm hål genom rör och variabel led.

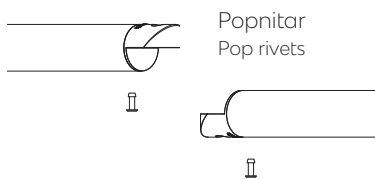
- EN
- Adjust the length of the rails so the joint is at the correct position.
 - Pop rivets should always be on the underside of the handrail.
 - Drill $\varnothing 5$ mm hole through the rail and variable joint.



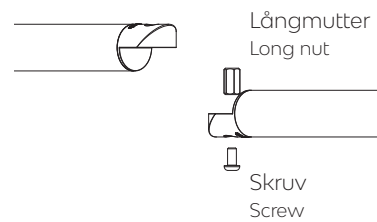
1



2

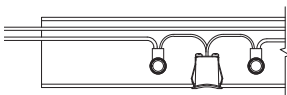


3

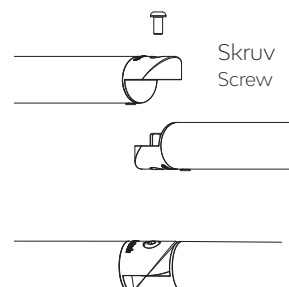


4

Montera ev. kabel till LED-belysning.
Install ev. cable for LED-lights.



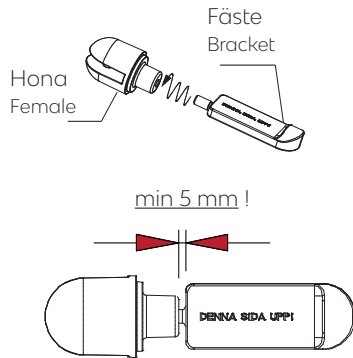
5



Toppföljare ø48 mm | Top rail ø48 mm

1

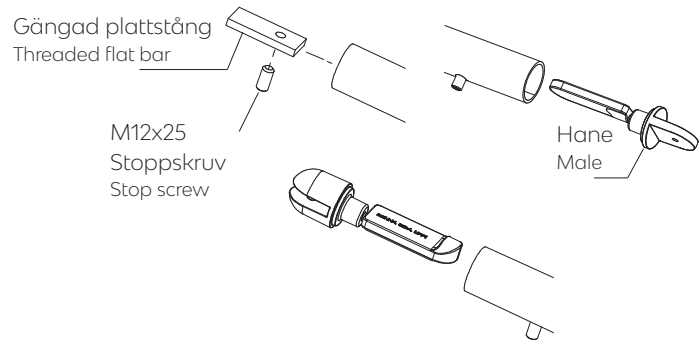
Fixera fästena i hane resp. hona.
 Fix the brackets in the male and female.



2

Montera hona och hane i rören med gängad plattstång och stoppskruv.

Mount the female and male in the top rail with the threaded flat bar and stop screw.



i Dra inte åt stoppskraven så hona/hane fortfarande kan rotera.

För ännu inte hona/hane mot rörkant.

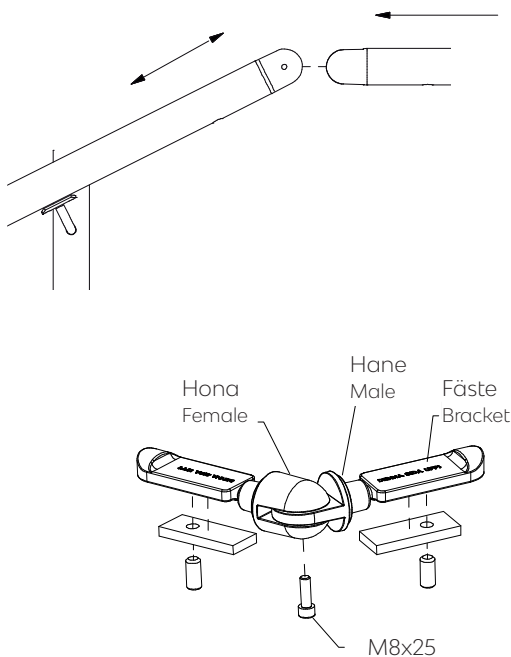
Do not tighten the stop screw so that the female/male can still rotate.

Do not yet move the female/male to the edge.

3

Anpassa rörens läge så leden hamnar rätt.

Adjust the position of the rails so that the joint is at the correct position.



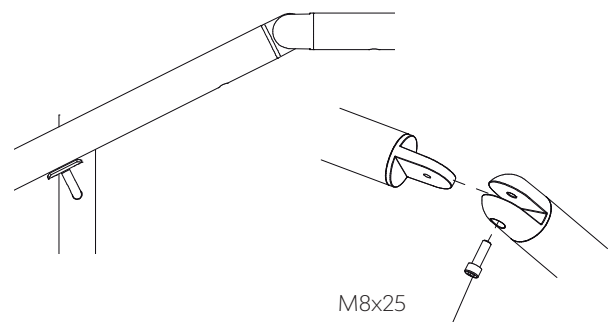
4

Vrid hona/hane till rätt position innan de förs mot rörkant. Dra åt stoppskruv.

Sammanfoga hona och hane med skruv.

Turn the female/male to the correct position before moving them to the edge. Tighten the stop screw.

Assemble the female and male with a screw.



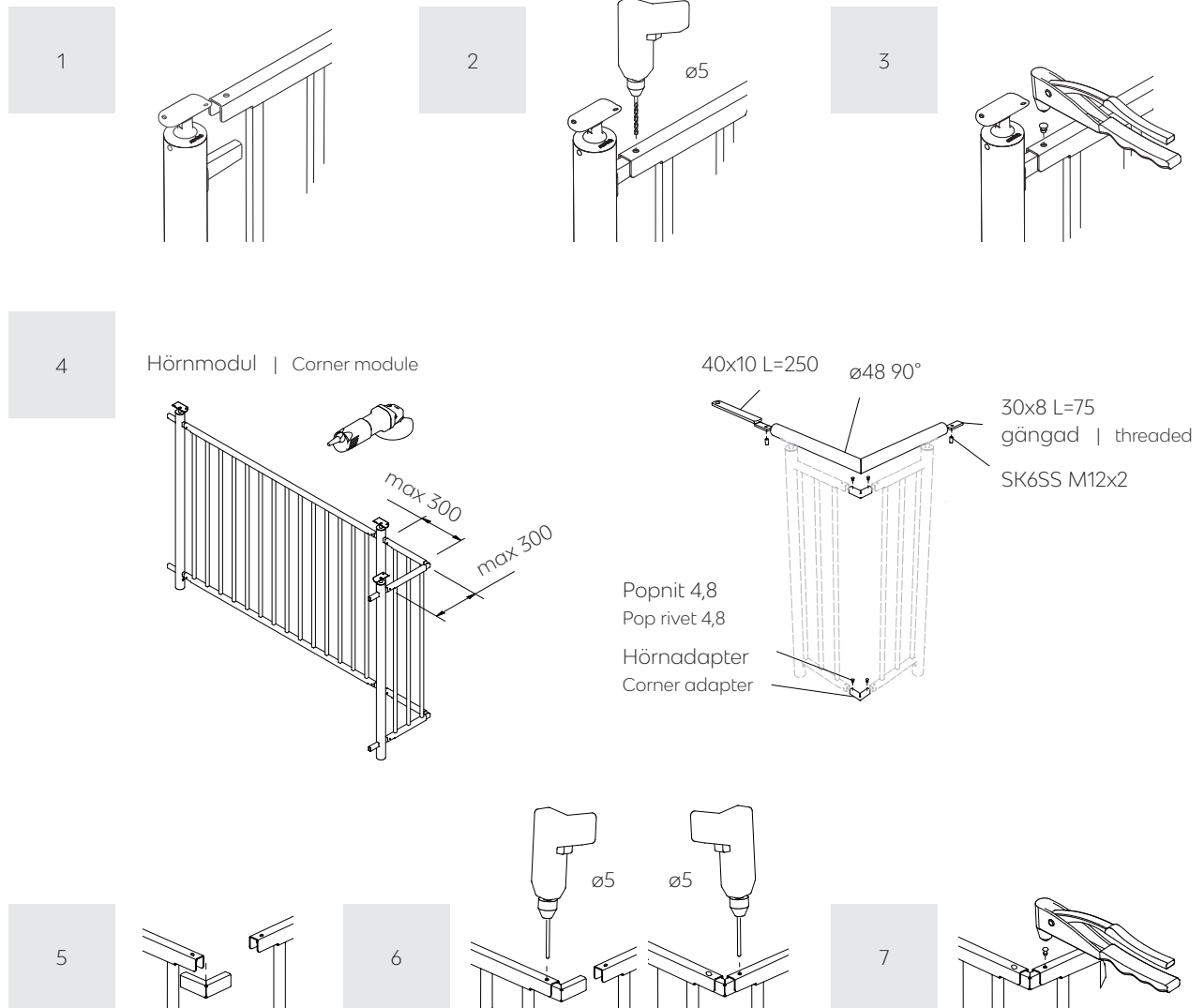
i Texten ska vara uppåt!

Fästet ska inte gängas ända in mot hane/hona!

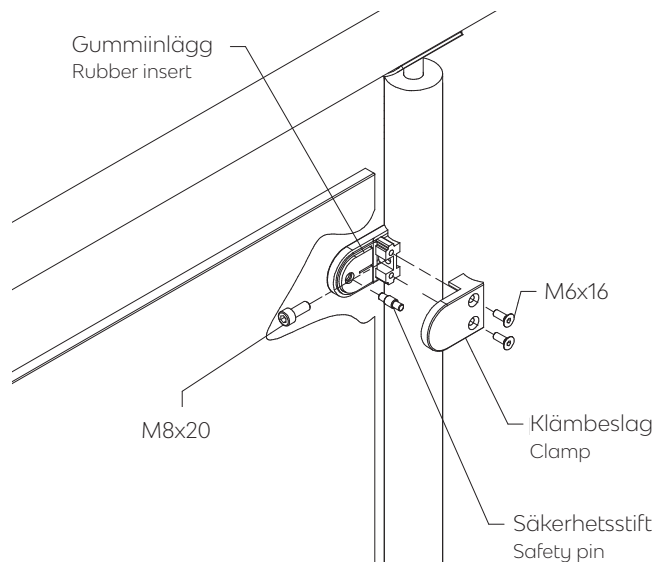
The text should be upwards!

The bracket should not be mounted all the way against the male/female!

8. Spjälmoduler | Balustrades



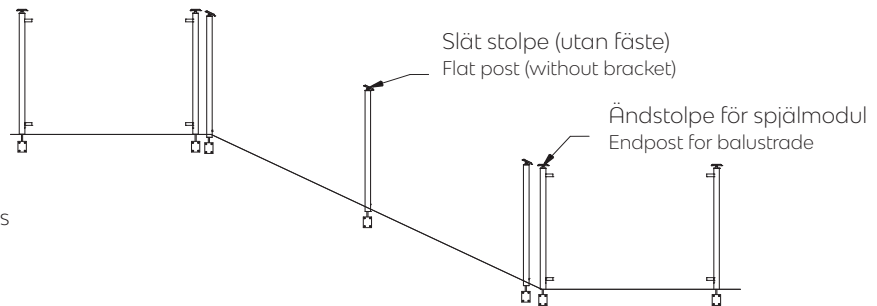
9. Glasmoduler | Glass modules



10. Spjälmoduler i lutning | Balustrades in slope

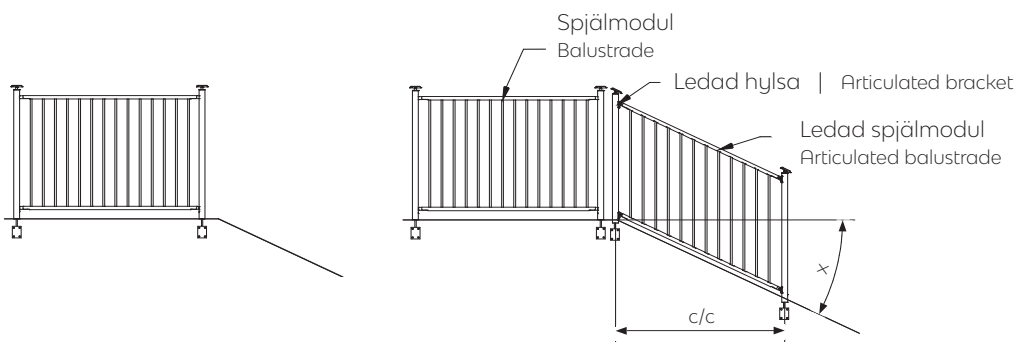
1

Typ av stolpar
Post types



Väggfundament rekommenderas
Wall brackets are recommended

2

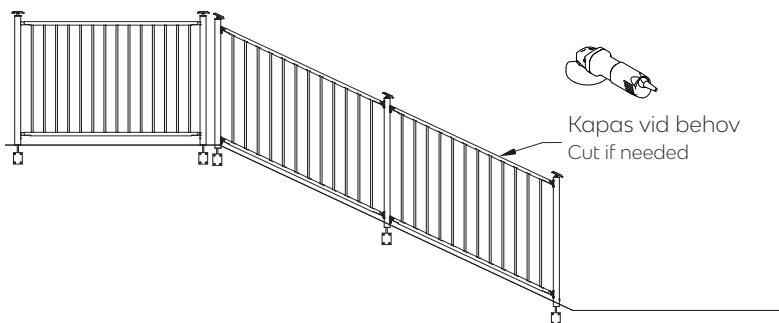


Spjälmodul | Balustrade

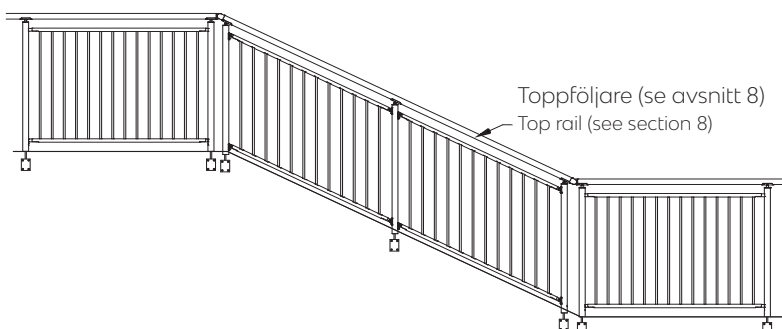
$L=1500$ $c/c = (1420 \cos x) + 90$

$L=1200$ $c/c = (1120 \cos x) + 90$

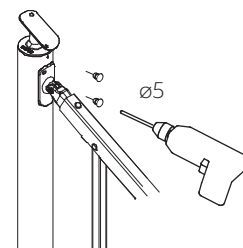
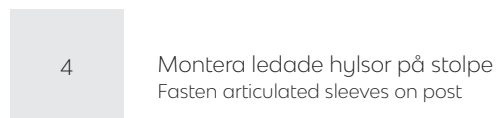
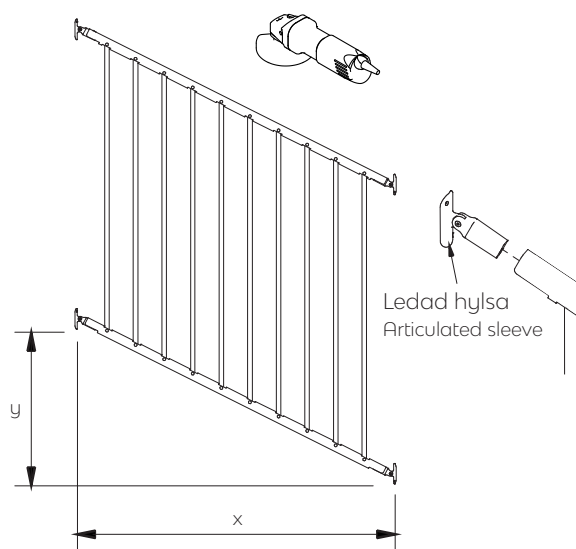
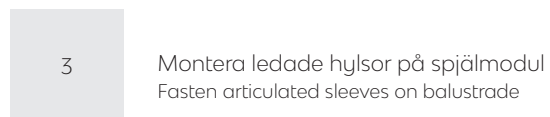
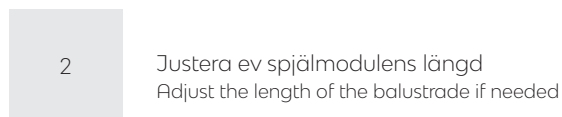
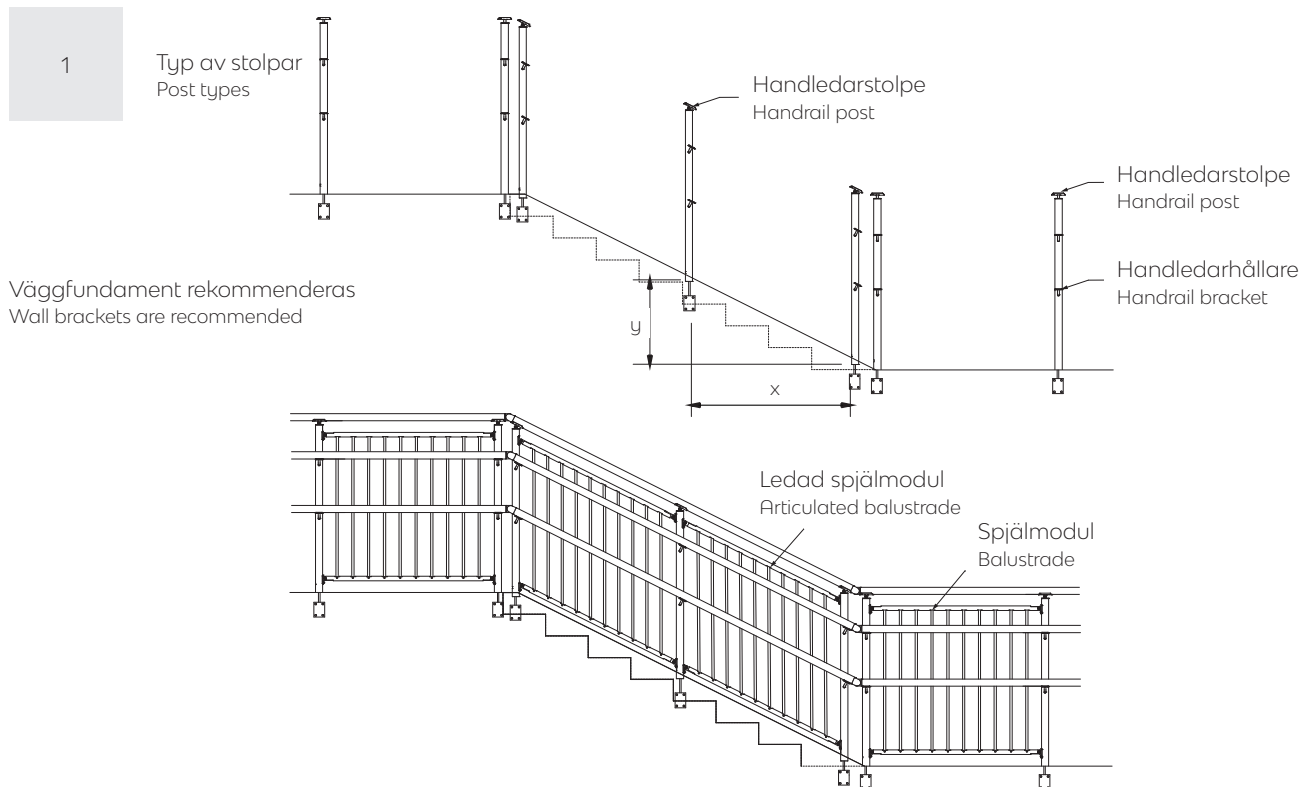
3



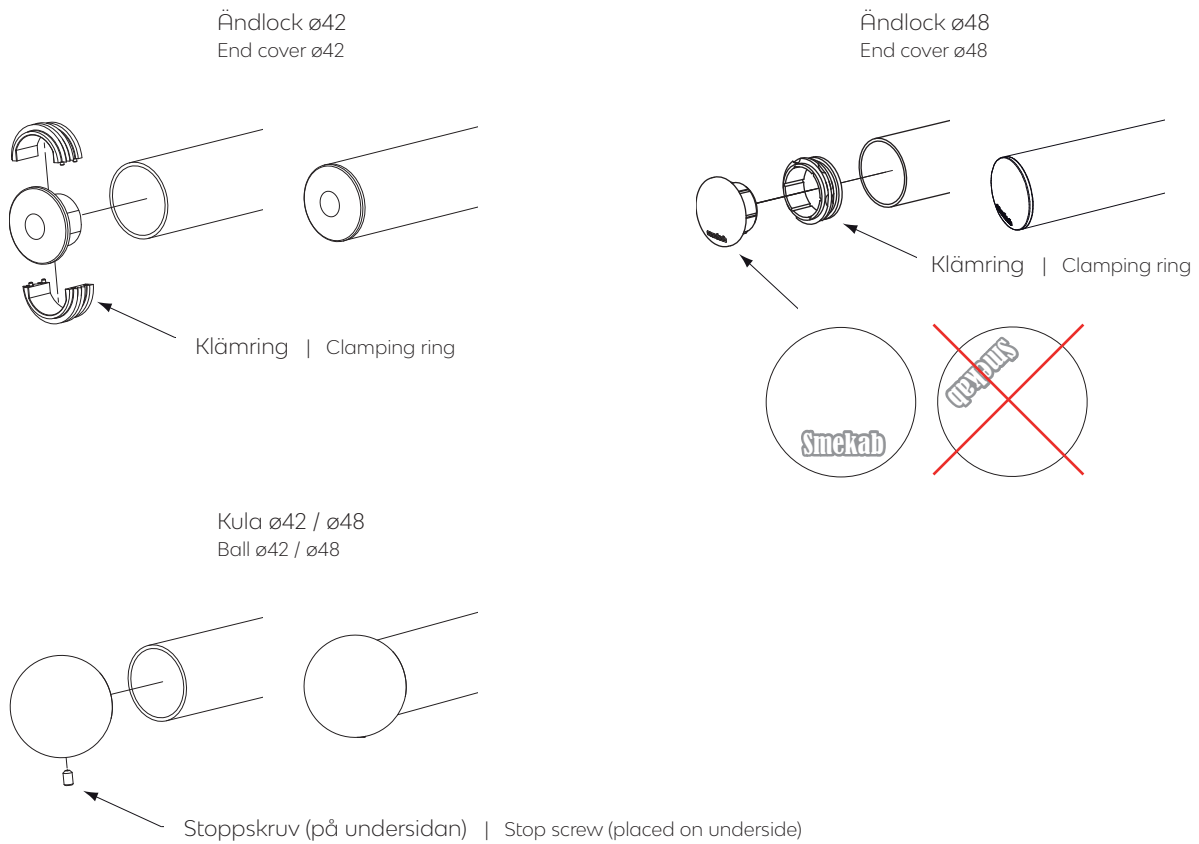
4



11. Spjälmoduler och handledare i trappa | Balustrades and handrails in stairs



12. Räckesavslut | End caps

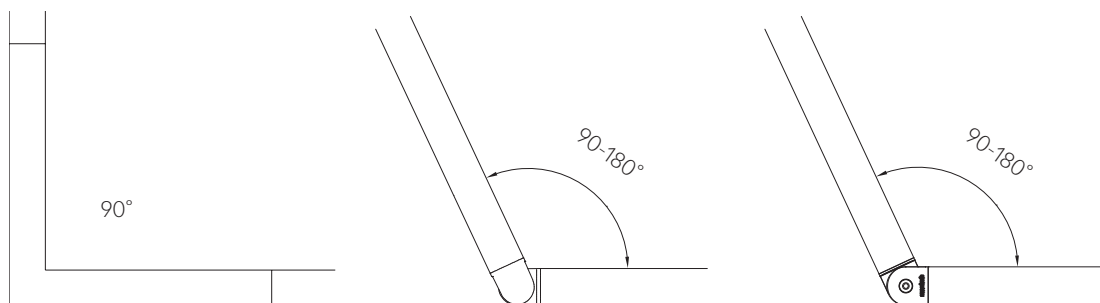


13. Hörn och vinkling | Corners and angling

90° fast vinkel $\varnothing 42 / \varnothing 48$
90° fixed angle $\varnothing 42 / \varnothing 48$

Variabel led $\varnothing 48$
Variable joint $\varnothing 48$

Variabel led $\varnothing 42$
Variable joint $\varnothing 42$

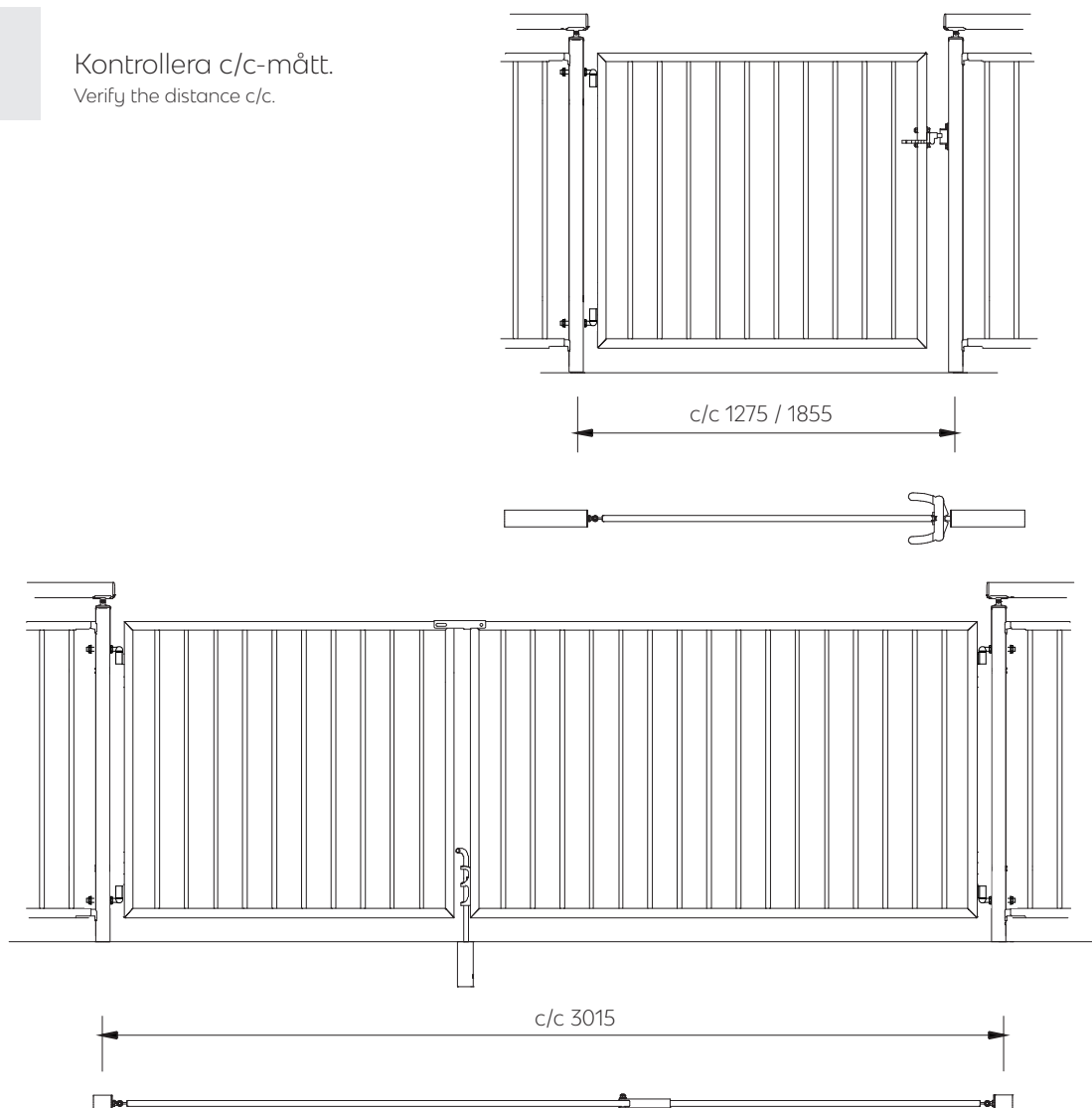


Toppvyer | Top views

14. Grindar | Gates

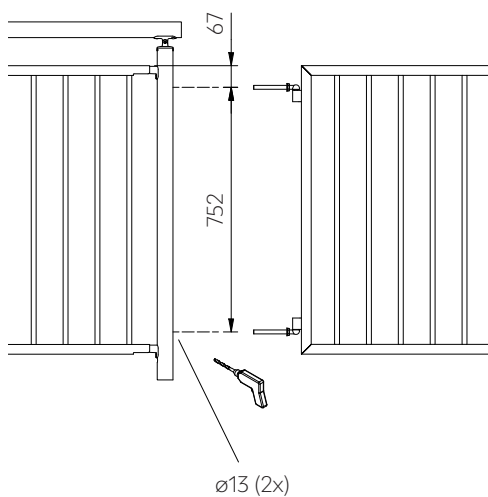
1

Kontrollera c/c-mått.
 Verify the distance c/c.



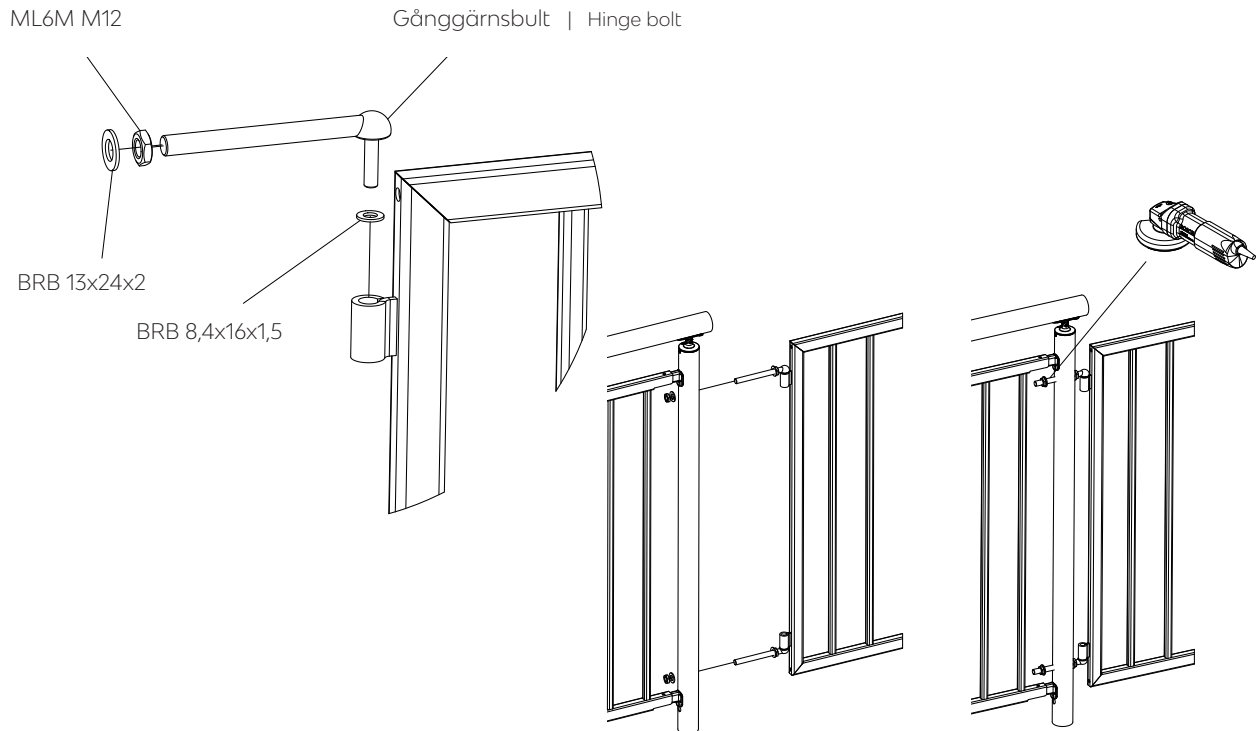
2

Borra för fäste. | Drill hole for bracket.



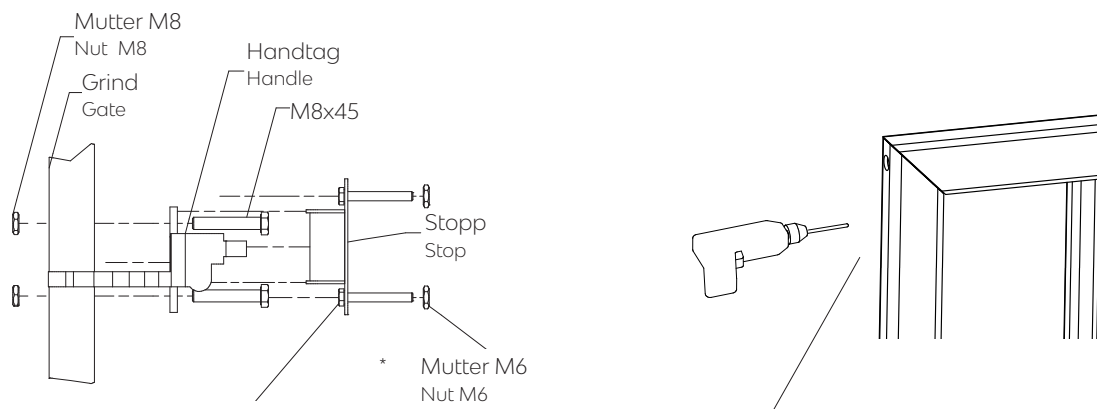
3

Montera grinden. Bultarna kan k  r
 install the gate. The bolts can be cut after installat



4

Montera handtag och stopp.
 Install gate handle and stop.



Enkelgrind | Single gate
 S  lvg  ngande skruv M6x12
 Self-tapping screw M6x12

Dubbelgrind | Double gate *
 MC6S M6x12

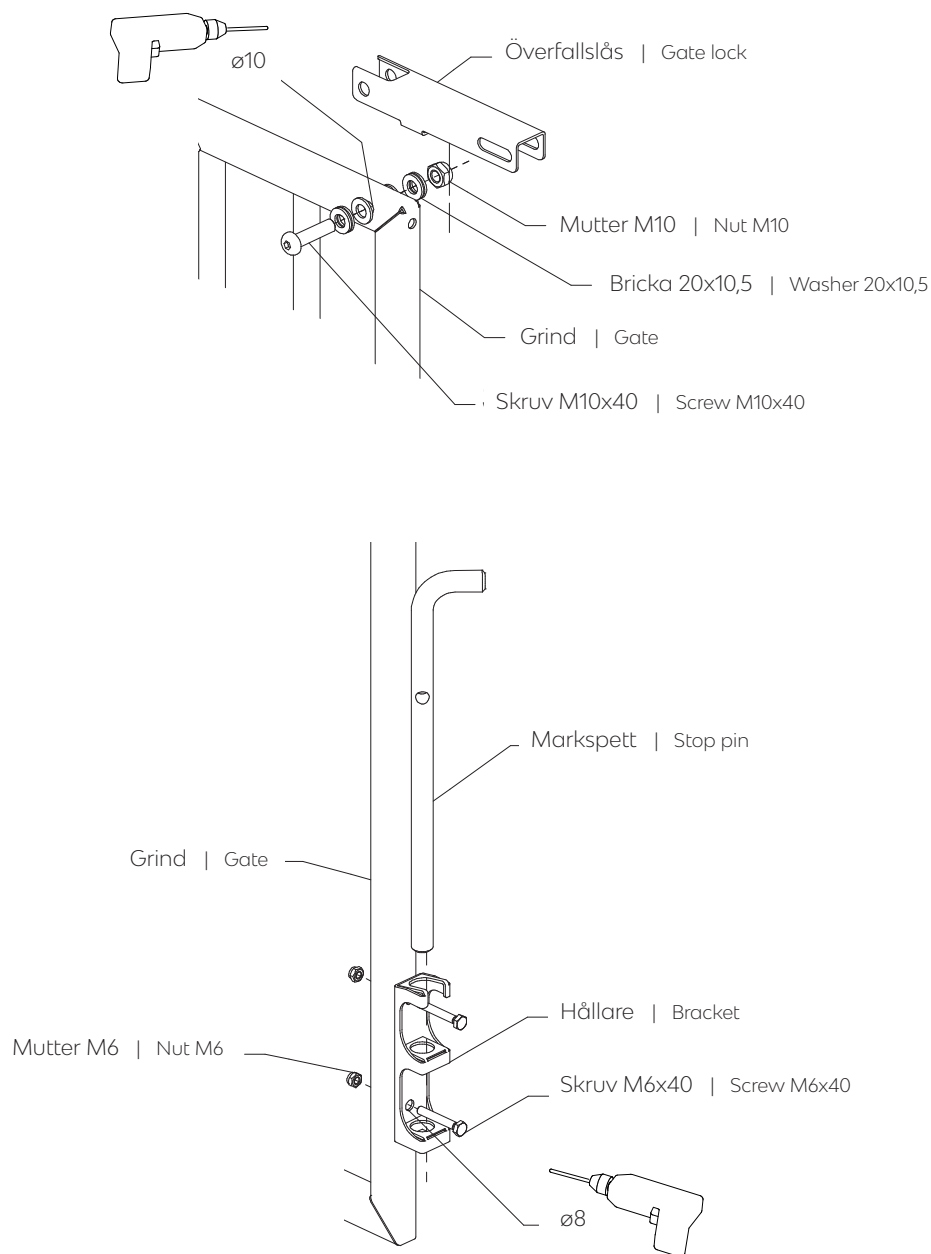
Enkelgrind | Single gate
   5,5 (2X)

Dubbelgrind | Double gate *
   6 (2X)

5

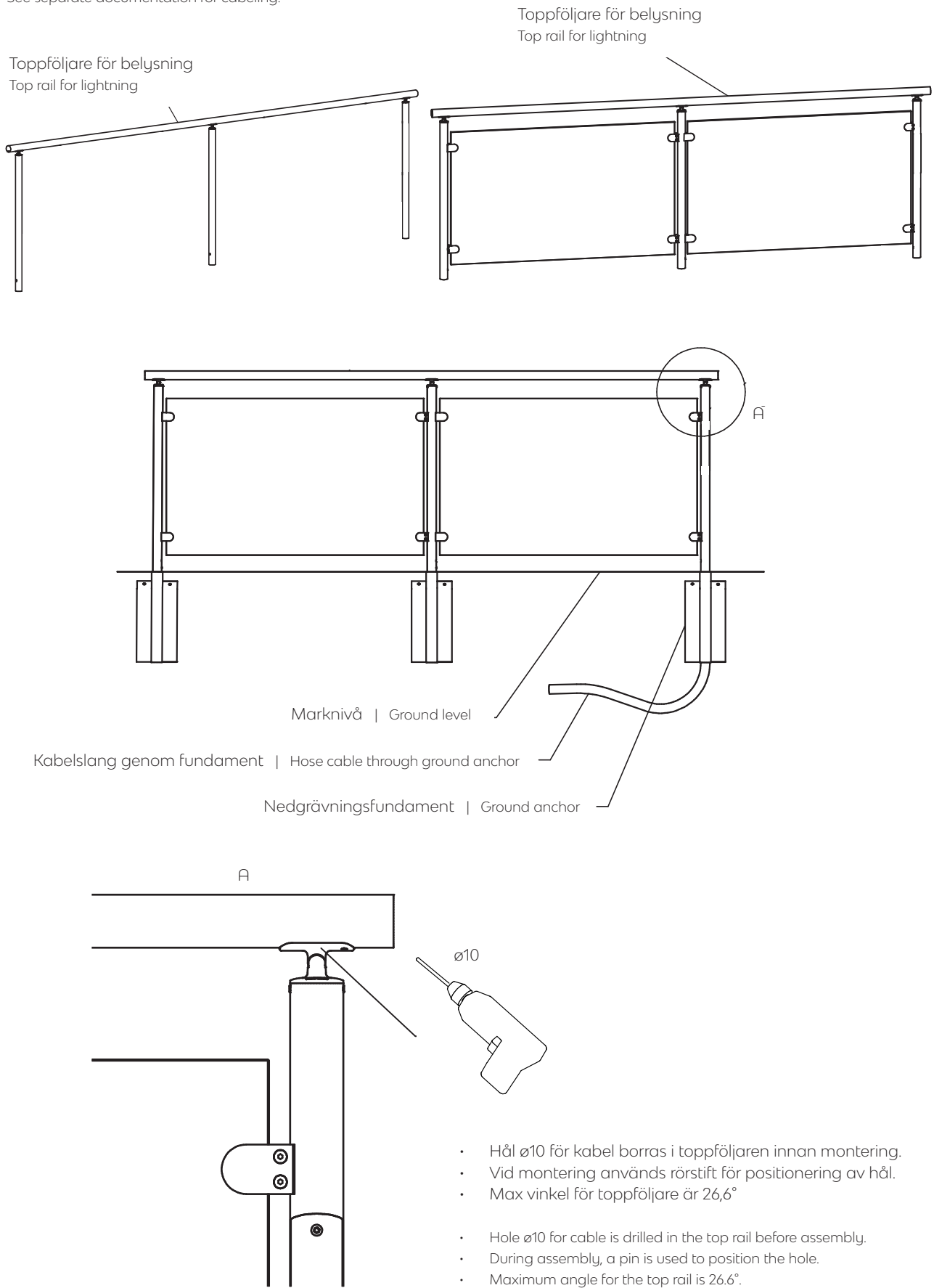
Montera överfallslås och markspett.

Install gate lock and stop pin.

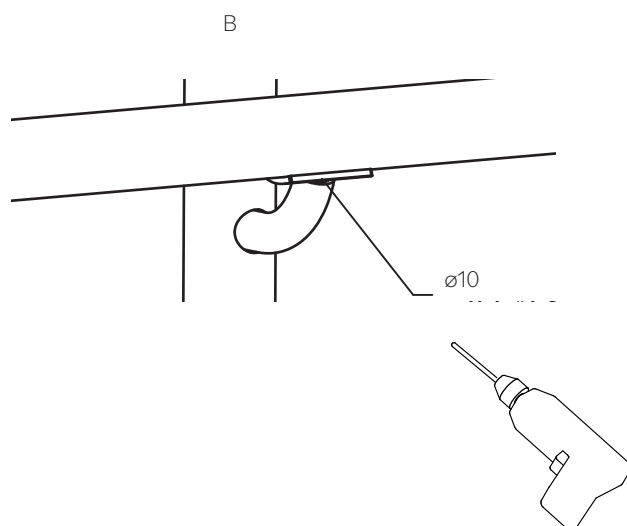
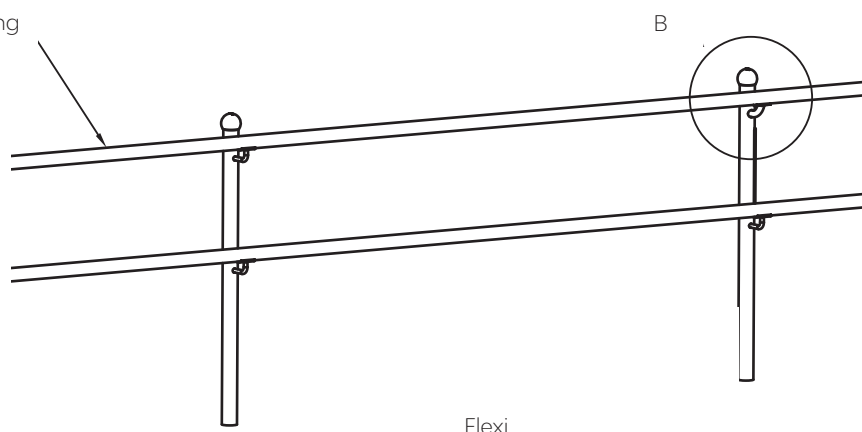


15. LED-belysning | LED lightning

Se separat anvisning för kabeldragning.
 See separate documentation for cabling.



Handledare för belysning
Handrail for lightning



Hål ø10 för kabel borras i toppföljaren innan montering.
Hole ø10 for cable is drilled in the top rail before assembly.

A. Revisionsförteckning | Revision list

#	Utgåva Edition	Beskrivning	Description
1	2023-11-30	Ny höjd h=1100 (tidigare h=1200)	New height h=1100 (previously h=1200)
2	2025-10-14	Uppdaterad layout	Updated layout
		Kompletterat med hängräcke h=900	Added handrail version h=900