Lindab Coverline™

Lindab Roof Safety System
Assembly instructions
Assembly instructions

**Before you start**

The roof as a work place is common for many occupational groups. Tin smith, chimney sweeper and property caretaker are daily on the roof - by rain, snow and wind.

Lindab have developed a complete range of roof safety products for all occupational groups working on roofs. Contact your local authorities for the correct dimensioning of the different safety systems or follow our recommended directions below.

<table>
<thead>
<tr>
<th>Facade height</th>
<th>0-3 m</th>
<th>3 to 4 m</th>
<th>4 to 8 m</th>
<th>over 8 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roof pitch</td>
<td>&lt;1:10</td>
<td>&gt;1:10</td>
<td>&lt;1:10</td>
<td>&gt;1:10</td>
</tr>
<tr>
<td>Slide protection for separate ladder</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed wall ladder or ladder with safe guard</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ladder with safe guard</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safe guards around roof openings</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fixed roof ladder and/or walkway to the ridge, chimney or maintenance places</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walkway along the ridge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anchorage point for lifeline</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Handrail for ridge or walkway for anchorage of lifeline</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foot support by roof base</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety device for falling ice and snow at building entrances</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safe guards around surfaces that can be entered by mistake which not bear personal cargo</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Roof pitches 1:10 correspond to 5,7° 1:3 is 18,3° Grey areas are recommended directions

**Chimney ladders**

Chimneys are recommended to have a ladder if the height of the ladder is more than 1,2 m. If the height of fall is greater than 10 m, the ladder should be assembled with safe guard.

**Work area on chimney**

If the height of chimney is more than 2 m the chimney is recommended to have a work area. If the height of fall is greater than 8 m a work area is recommended.

The work area is assembled with safe guard/handrail with a minimum height of 1m.
## Assembly – Walkway and Handrail

![Assembly - Walkway and Handrail Diagram](image)

### Choice of consoles

<table>
<thead>
<tr>
<th>Design of fastening device</th>
<th>Roofing</th>
<th>Battens for lightweight under-lying roofs</th>
<th>Batten for tongued and grooved board</th>
<th>Parallel to ridge</th>
<th>Normal to ridge</th>
<th>1, 2, 3-pipe safe guard</th>
<th>Snow fence SNÖ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tongue and grooved boarding/Plywood plastic film or board on wooden roof trusses</td>
<td>Concrete tile double lap</td>
<td>12+25</td>
<td>BRKU(Ba)</td>
<td>HNT3B</td>
<td>HSNÖB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 mm wood batten</td>
<td>25+25</td>
<td>BRKR</td>
<td>HH3B</td>
<td>HSNÖH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steel batten (KL)</td>
<td>BUPL(Ba)</td>
<td>HPL3B</td>
<td>HSNÖB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clay tile, double lap</td>
<td>12+25</td>
<td>BRKU2</td>
<td>HNT32</td>
<td>HSNÖB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 mm wood batten</td>
<td>25+25</td>
<td>BRUH2</td>
<td>HH32</td>
<td>HSNÖH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clay tile, single lap</td>
<td>12+25</td>
<td>BRKU1</td>
<td>HNT31</td>
<td>HSNÖB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 mm wood batten</td>
<td>25+25</td>
<td>BRUH1</td>
<td>HH31</td>
<td>HSNÖH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Felt/PVC sheet</td>
<td>UNIK+UNIK NBR</td>
<td>STK</td>
<td>UNIK</td>
<td>UNIK SNÖ, HSN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standing seam roofing</td>
<td>UNIK+UNIK NBR</td>
<td>STKFF</td>
<td>UNIK</td>
<td>UNIK SNÖ, HSN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Floordeck, concrete, aircrete</td>
<td>Felt/PVC sheet</td>
<td>UNIK+UNIK NBR</td>
<td>STK</td>
<td>UNIK</td>
<td>UNIK SNÖ, HSN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standing seam roofing</td>
<td>UNIK+UNIK NBR</td>
<td>STKFF</td>
<td>UNIK</td>
<td>UNIK SNÖ, HSN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coverline, Topline etc., Fibre reinforced concrete</td>
<td>UNIK+UNIK NBR</td>
<td>STK</td>
<td>UNIK</td>
<td>UNIK SNÖ, HSN</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

a) minimum batten c/l distance 340 mm
Assembly – Walkway and Handrail

**Console BRKUB,BRKR,BUPLB,BRKB1,BRUH1,BRKB2,BRUH2**

- Mount the lower console on the roof according to assembly instructions.
- Mount upper console KÖ. Choose hole combination depending on the roof pitch. Fasten with two bolt and nut.

**Console UNIK**

- Mount the lower console on the roof according to assembly instructions.
- Mount the upper console UNIK NBR. Choose hole combination depending on the roof pitch. Fasten consoles with bolt and nut.

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### Roof Pitch

<table>
<thead>
<tr>
<th>Roof Pitch</th>
<th>Holes BRKU</th>
<th>Holes NKÖ</th>
</tr>
</thead>
<tbody>
<tr>
<td>5°</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>10°</td>
<td>A</td>
<td>3</td>
</tr>
<tr>
<td>15°</td>
<td>C</td>
<td>4</td>
</tr>
<tr>
<td>20°</td>
<td>B</td>
<td>3</td>
</tr>
<tr>
<td>25°</td>
<td>A</td>
<td>2</td>
</tr>
<tr>
<td>30°</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>35°</td>
<td>B</td>
<td>2</td>
</tr>
<tr>
<td>40°</td>
<td>A</td>
<td>1</td>
</tr>
<tr>
<td>45°</td>
<td>C</td>
<td>2</td>
</tr>
<tr>
<td>50°</td>
<td>B</td>
<td>1</td>
</tr>
<tr>
<td>60°</td>
<td>C</td>
<td>1</td>
</tr>
</tbody>
</table>

The consoles are to be mounted with maximum width <1200mm. According to HUSMA08 all walkways must be supported with at least three consoles. The beginning and the end of the walkway must be supported by at least two consoles.

---

### Roof Pitch

<table>
<thead>
<tr>
<th>Roof Pitch</th>
<th>Holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>5°</td>
<td>1+1</td>
</tr>
<tr>
<td>10°</td>
<td>2+2</td>
</tr>
<tr>
<td>15°</td>
<td>1+13</td>
</tr>
<tr>
<td>20°</td>
<td>4+2</td>
</tr>
<tr>
<td>25°</td>
<td>5+1 alt 3+3</td>
</tr>
<tr>
<td>30°</td>
<td>6+2 alt 4+4</td>
</tr>
<tr>
<td>35°</td>
<td>3+5</td>
</tr>
<tr>
<td>40°</td>
<td>4+6</td>
</tr>
<tr>
<td>45°</td>
<td>5+5</td>
</tr>
<tr>
<td>50°</td>
<td>6+6</td>
</tr>
</tbody>
</table>
Assembly – Walkway and Handrail

Mount the handrails BRSTO and STÄND c/c max 1200 mm.

Slide in the railpipe in the post. Join the pipes with SKH or HRN.

Use BRV by corners. Consoles max 500 mm from outside corner. Use the center hole on UNIK to fasten consoles if the walkway is too short or needs more support. If you need additional support use RÖR and the plastic cap under corner angle.

Note!
The beginning and the end of the walkway must be supported by at least two consoles.

Walkway, Handrail

Mount the walkway BR on the consoles.

When splicing put BR overlapped at least 200mm. Lock with two screws and nuts.
Assembly – Safe guard

Mount the console on the roof according to the instructions for each fastening conditions.

Mount the SRT-pipe on UNIK with the included screws.

Mount the console on the roof according to the instructions for each fastening conditions.
Assembly – Safe guard

Console alternative HNT

Mount the SRT-pipe to the console with the included screws.

Mount the console on the roof according to the assembly instructions for each fastening device.

Post and pipe assembly

Mount the SRT on the console with the included screws.

Mount the pipes RÖR and corner HRN joint. Join if necessary with SKH. Fasten with the included screws.

Note!
Space between pipes for long safe guards max <1200mm.
Assembly – Ridge- and eaves guard, snowfence

**Console alternatives**

- **Console UNIK** on flat roof.
- **Console HNT** for tile roofing.

**Assembly the pipes RÖR**

- Put the pipes RÖR in the console holes. Mount the end sleeve AND on all pipes as close to the UNIK as possible.
- For bends, use HRN corner joint. Fasten with the included screws.
Assembly – Ridge- and eaves guard, snowfence

Joining the pipes

Mount the support console SVI on the top pipe.

Joining the pipes RÖR with SKH. There should be a 5mm distance between the pipes, check through the inspection hole.

Snow fence SNÖ

Mount the console UNIK.

Mount the snow fence.

Maximum overhang is 300 mm.

Lock the joint with bolt and nut. An extra bolt shall be used at end pieces.
Assebly – fastening device safety line

LLF safety line fastening device mounted on console. Mounted product is called FLLF.

Can be mounted on flat roofs according to assembly instructions.

Can be mounted on IF20/45 or IFR.

Assembly – Ridge- and eaves guard, snowfence

Console alternative for snow fence SNÖ

Alternative console HSNÖB/H on concrete or tile roof

Alternative console HSN or UNIK can be mounted with FF lap joint.

Mounting alt. with UNIK or HSN assembled with IF fastening plates.

Mounting snow fence SNÖ on existing ridge guard

Pull out the top pipe and assemble the FV attachment bracket.

Pull out the other pipes and mount the snow fence SNÖ.
Assembly – Vertical ladder

Assembly
Use fastening devices that fits the wall construction. Vertical ladders shall in principal be mounted with throughgoing fastening devices. Fastening on wall of profiled steel sheets (min 0.5 mm thickness) the VFSTE ladder anchorage or IF plate should be used.

Consoles
The ladder consoles KOFS and STAFS have different fastening measurements. The table below shows the measurement C depending on the length of KOFS/STAFS.

<table>
<thead>
<tr>
<th>Length mm</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>590</td>
</tr>
<tr>
<td>250</td>
<td>645</td>
</tr>
<tr>
<td>350</td>
<td>700</td>
</tr>
<tr>
<td>450</td>
<td>760</td>
</tr>
<tr>
<td>550</td>
<td>810</td>
</tr>
<tr>
<td>650</td>
<td>860</td>
</tr>
<tr>
<td>850</td>
<td>970</td>
</tr>
<tr>
<td>1050</td>
<td>1080</td>
</tr>
<tr>
<td>1250</td>
<td>1180</td>
</tr>
</tbody>
</table>

To make the ladder unreachable for children we recommend that the ladder ends 2 m above ground. Separate ladder can be attached with consoles UBVAS.

Max distance between the consoles KOFS is 5000 mm and 2500 mm for STAFS consoles.
Assembly – Vertical ladder

Ladder assembly

Mount the top console KOFS on the wall.

If wall cladding is profiled steel sheets use VFSTE ladder anchorage or IF 20/45.

Join the ladder with joining kit SKAN. Can be made on the ground beforehand.

Mount the ladder STED on the top console KOFS. Note! Top ladder step shall have a 30 mm distance above the rain gutter.

If necessary mount the hand rail HALR.
Assembly – Vertical ladder

Safe guard for vertical ladder

Mount the hand rail HALH on the ladder with the included screws.

Mount the clamps BYSK on c/c 900 mm. End the safety guard 2.5 m above ground.

Mount the stays STSK back protection. Place the bolt head on the inside of the basket.

Assembly of standing platform

The platform STÅS is placed on top ladder step and is bolted with the HALH.
Roof ladders can be mounted on flat roofs and on roofs with single or double lap concrete or clay tiles. There are several console alternatives depending on the roof cover. An alternative is to mount a walkway if the roof pitch is max 12°.

On standing seam roofs or sheet covered roofs the console SKTFF in combination with FF can be used. Fastening to profiled steel sheet roofs the STK in combination with STKIF is used. For outer insulation roofs the console STK is used.
Assembly – Roof ladder

Assembly on concrete or clay tile roofs

- Anchorage alt. 1 with KOTAL/KOTAH. Max distance between consoles is 2 m. Batten 25+25 KOTAH, batten 12+25 KOTAL, batten 45+70 KOTALF.
- Anchorage alt. 2 with FÅTA. Always use spacer kit STK with this alt. Max distance between anchorages is 2 m.
- Anchorage alt. 3 with NFSTE. Always use spacer kit STK with this alt. Max distance between anchorages is 2 m.

Assembly on flat roofs

- If necessary lengthen the ladder with joining kit SKAN. If angled roof use joining kit TSS. The sliding protection GLSS prevents ladder from sliding.
- Max distance between the plates is 2 m. On outside insulated roofs the middle console STK in combination with fastening devices IFLO/IFVÅ, IFBET and IFLÄB are used.

Note!
The Roof ladder must be anchored in at least two points, at the top and bottom. According to HusAA008 fasteners must be mounted every two meters.

Fasten the ladder on the top consoles KOTIF and go on with the other consoles. Max distance between consoles is 2 m.

A fastening plate STKIF can be used. Between the plate and ladder the middle console STK is mounted.
Assembly – Roof ladder

Roof ladder steps

Fasten the rest of the steps. Check how many you need in table below.

Place the STEP on the ladder pin. Choose the right hole and fasten with bolt and nut.

Measure the roof pitch and decide which side that shall be hooked on the ladder pin.

Ladder length | Number of steps
---|---
1500 | 5
1800 | 6
2400 | 8
3000 | 10
3600 | 12

Batten step for tile and concrete STEG 25/50

STEJG is used for mounting into each other to make a complete roof ladder.

Connect batten step STEG with each other.

Mount the fastening device on the first batten on the top. Also use fastening device when mounting only one batten step.

Connect the top step with the fastening device.

The fastening device is to be mounted on batten.

STEJG is approved according to the EU standard EN-12951.
**Assembly – Chimney Platform**

Assemble the chimney straps SKBA with stainless steel threaded bar Ø 10 mm HGS.

Assemble the two top straps with bracket SKKO for walkway NBR and bracket KOFS for the ladder STED.

Assemble the chimney straps SKBA with stainless steel threaded bar Ø 10 mm HGS.

Mount the ladder on the bracket. Go on with assembling the other straps for the ladder with c/c max 2500 mm. Mount the walkway with handrail NAND.

<table>
<thead>
<tr>
<th>Chimney width</th>
<th>SKBA</th>
<th>HGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>500-760</td>
<td>460</td>
<td>350</td>
</tr>
<tr>
<td>760-1000</td>
<td>460</td>
<td>650</td>
</tr>
<tr>
<td>1000-1260</td>
<td>960</td>
<td>350</td>
</tr>
<tr>
<td>1260-1500</td>
<td>960</td>
<td>650</td>
</tr>
<tr>
<td>1500-1760</td>
<td>1460</td>
<td>350</td>
</tr>
<tr>
<td>1760-2000</td>
<td>1460</td>
<td>650</td>
</tr>
</tbody>
</table>
Assembly – Lap joint for standing seam roof

Console

Assemble the chosen console on the lap joint.

Mount the lap joint on the standing seam. Be sure that the lap joint heels are below the seam. Tighten the bolts with 20Nm.

Lap joint with roof ladder

The roof ladder is assembled with the middle console STKFF.

Lap joint with walkway

The walkway is assembled with the middle console STKFF.

Lap joint with anchorage point

The anchorage point LLF can be assembled on the lap joint.

Lap joint on aluminum sheet

On aluminum sheets 2 lap joints are mounted together with one console UNIK. Can also be ordered as one article FF UNIK ALU.

Assembly conditions
Steelsheet: min t= 0,6 mm double folded
Titan zinc sheet: min t= 0,7 mm double folded
Welded stainless steel sheet: min 0,4 mm
Copper sheet: t= 0,6 mm double folded
Aluminum sheet: t=0,8 mm double folded, linked with FFUNIK aluminum.

When assembly on copper roofs an insulation profile of stainless steel, FFIP is used. FF and UNIK shall be colour coated.

The UNIK console can be delivered ready assembled on the lap joint FF. The component is then called FFUNIK.
Assembly – Fastening plate

Fastening plate IF on profile sheets

Start with assembling the chosen console on the fastening plate.

Fit the fastening plate on a profile top on the steel sheet.

Fasten the plate with the delivered bolts in the package.

Assembly conditions
Steel sheet: min t = 0.5 mm

The fastening plate is a device that makes it easy to assemble roof safety components on all types of profiled steel sheet roofs. The assembly is made completely from the outside of the roof.
Assembly – Fastening plate

Fastening plate IFR on tile effect roofing

Start with assembling the console on the fastening plate.

Assemble the shackle with one rubber washer. Pull it in place through the lower hole.

Repeat with the next shackle.

Use the plate IFR as template, drill 4 holes with Ø 11 mm. Fixate the plate with a screw when the first hole is drilled.

Attach the rubber washer on the other end.

Place the fastening plate carefully and tighten the bolts.

Assembly conditions
Steelsheet: min. t = 0,5 mm

The fastening plate is a device that makes it easy to assemble roof safety components on all types of profiled steel sheet roofs. The assembly is made completely from the outside of the roof.
Assembly – Flat Anchorage

Flat Anchorage

Start with assembling the console on the anchorage PLF

Place the anchorage under the batten and turn it into position.

Adjust the console against the tile edge and tile upside.

Fasten it with at least 8 wood screws 6x40 mm. Four screws on each side of the console, as close to the end as possible.

Assembly conditions
Wood: min 17 mm
Plywood: min 15 mm
Batten: min 25 mm
Assembly – Resistance iron

Resistance iron

Adjust the console against the tile edge and tile upside. Make a marking for the drilling (not the middle hole)! Polish the edges to make the consol close-fitting.

Drill with Ø 12 mm.

Mount from underneath with resistance iron MOTH L=500 mm

For flat roofs, seal with a rubber washer. Use bracket backing UNDLÅ if necessary.

Tighten the bolts with 35-50 Nm

Assembly conditions
Wood: min 17 mm
Plywood: min 15 mm
Assembly – Tilting bolt

Fit the console against the tile edge and tile upside. Make a marking for the drilling (not the middle hole).

Assemble the tilting bolt VIPP60, rubber cone and the tool VIV. Put the bolt through the hole.

Drill with Ø 24 mm.

Assemble the tilting bolt VIV. Pull up the bolt and press down the rubber cone.

Assembly conditions
Wood: min 22 mm
Plywood: min 18 mm

The bolt cut mark must be parallel to the console.

Assemble the console on the bolts.
Tighten the bolts with 35-50 Nm.

Note! Do not cut the bolts.

Flat roofs

For flat roofs with console UNIK the tilting bolt rubber cones gives enough sealing. Use bracket backing UNDLÅ if necessary.
Assembly – Fastening device for external insulated roofs

IFLO on profile sheets

Use the IFLO plate as template for marking the holes. Drill 8 holes with Ø 11 mm. Assemble the shackles with the rubber washer.

Assemble the pillars PEL on the plate IFLO. Pillar length should be 30-50 mm above the insulation thickness. Check that top of pillars keeps c/c 120 mm. Place the unit on the shackles and tighten the bolts.

Make a hollow for the insulation and make the pillars go through. If sealing IMUF2 is used, put stainless hose clips around the pillars.

Assembly conditions
Steel sheets with profile heights min 70 mm and thickness min 0.65 mm.

IFBET on concrete

For concrete the plate IFBET is used. Fastening the plate is made with expander bolts. Follow the instructions as for IFLO when assembling the console.

Assembly conditions
Min thickness of concrete is 140 mm. Fastening with for example HILTI HST-R M10/10 or HSAT M10x100.1.
Assembly – Fastening devices for external insulated roofs

IFLÄB on light concrete

Use the plate IFLÄB as template, drill 4 holes with Ø 11 mm.

Assembly conditions
Assemble with resistance iron with through going bolt or threaded bar Ø10 mm quality 8.8 or equal.

IFLÄB on wood

Use the plate IFLÄB on wood underlay. Assembly as on light concrete.

Use plate FÄRN2 if the insulation thickness is under 60 mm.

IFFÖP on profile sheets

Use the IFFÖP plate as template for marking the holes. Drill 4 holes with Ø 11 mm. Assemble the shackles with the rubber washer.

Assembly conditions
Steel sheets with profile heights min 70 mm and thickness min 0.65 mm.

For thin insulation

Assemble the pillar PELÖ on the plate. Pillar length should be 150 mm above the insulation thickness.

Flat roofs

Make a hollow for the insulation and make the pillar go through. If sealing IMUF1 is used, put stainless hose clips around the pillar. The console is tightened on top of the pillars.
Assembly – Fastening devices for external insulated roofs

**IFFÖ on concrete**

For concrete the plate IFFÖ is used. Fastening the plate is made with expander bolts.

**Assembly conditions**

Min thickness of concrete is 140 mm. Fastening with for example HILTI HST-R M10/10 or HSAT M10x100.1.

**IFFÖ on light concrete**

Use the plate IFFÖ as template, drill 4 holes with Ø 11 mm. Follow the instructions as for IFFÖP when assembling the console.

**IFLÄB on wood**

Use the plate IFLÄB on wood underlay. Assembly as on light concrete.

**Assembly conditions**

Assemble with resistance iron with through going bolt or threaded bar Ø10 mm quality 8.8 or equal.

**Other roof types**

Anchorage point LLF with rubber washer GRB and resistance iron is mounted on flat roofs. Also used in combination with fastening plate on profiled steel sheets and fastening device for external insulated roofs.
Fit the wider Tiling batten fastening IFTL on lower batten.

Fit the thin IFTL part on the upper batten.

Assemble the IFTL and the console loose on the batten. Thereafter adjust the console against the tile edge and tile upside. Tighten the bolt.

Fasten the IFTL with nails 4x40 mm. Bend down the flap and fasten with self-tapping screw 4,8x20 mm.

The tiling battens that keeps IFTL on place are fastened with screw 6x100 mm and washer 20x10x2 mm.
Mount the BR walkway on the consoles. Use the included screw and nut.

Assembly conditions
Min thickness surface steel sheet: 0.5 mm

Mount the SAWBRK on the sandwich panel. Use the included 10 screws. Max c/c 1200 mm between the consoles. Use at least 3 consoles.

For 90° angels, use the walkway angle BRV. Place the consoles as close as possible to the corner. Max 500 mm from outer corner. Max overhang at walkway ends is 300 mm. It is not permitted to joint the walkway between the two first or last consoles.
Assembly – Snowfence on sandwich panel roof

Mount the walkway console on the SAWPLF. Use the included screws. Nut on the top.

Mount the SAWPLF on the sandwich panel. Use the included screws. Max c/c 1200 mm between the consoles. Use the outer holes on the SAWPLF.

Slide the two pipes into the consoles. (If ridge rail only one pipe in upper holes). Joint with SKH and use pipe endings AND at every pipe end.

For ridge rail the support angle SVI is assembled to prevent pipe rotation.

Mount the ice gliding protection between the panel ridges. Use the included screws.

Assembly conditions
Min thickness surface steel sheet: 0.5 mm
Assembly – Ladder on sandwich panels

### Roof ladder

Mount the console KOTIF on the SAWPLF fastening device. Use the included screws. Nut on the top.

Assemble two of them at the top part of the ladder.

Mount the top part of the ladder by fasten the SAWPLF on the roof panel. Use all screws included. Eight in total.

Continue in the same way downwards with maximum 2 m between the fastening devices.

### Facade ladder

Mount the console KOF/SSTAFS on SAWPLF. Use the included screws. Nut on the top.

Assemble KOFS on wall. Use the 8 included screws.

Mount ladder STED on console KOFS. Note: The top step must be placed at least 30mm above gutters. Max. 2,5m between consoles.

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Assembly conditions

Min thickness surface steel sheet: 0.5 mm
Lindab Profile is a business area within the Lindab Group that develops, manufactures, and markets efficient, economical and aesthetic steel and sheet-metal solutions for the building industry.

We offer everything from complete building systems to individual building components for all types of housing, as well as commercial and industrial buildings.

Lindab Profile is represented in over 30 countries throughout Europe. Our head office is in Förslöv, in the south of Sweden.