SAFETY LADDER PRODUCTS

INSTALLATION AND OPERATION INSTRUCTIONS

1 INSTALLATION OF SAFETY LADDER B TO EXISTING LADDERS

1. The ladder rungs should be at least 350 mm wide to allow sufficient space for feet between the safety profile (climbing profile B) and lange.

2. Spacing between fasteners:
   - Spacing should be max. 2,5 m
   - 2 fasteners must be installed on top with spacing of max. 1 m
   - See point 3 if entry bow is employed
   - Existing ladders must be checked for reliable fitting

3. Start the installation from the top downwards using e.g., a pulley block and rope fitted to the top to lift the safety profiles into position. If the user needs to disengage from the ladder at the top (roof case), an entry bow must be installed on the upper part of the ladder (see. Point 3). If an entry bow is not installed, the uppermost profile should be a minimum of 3 m long.

   N.B.

   The safety profile can alternatively be installed laterally, e.g. to the tower prior to lifting. In this case, care must be taken to ensure that the free end of the profile is not too long so that it does not get damaged during lifting.

4. Fasten extension sleeve no. 70 loosely onto the end of the safety profile. The safety profile cannot be installed the wrong way round as it is symmetrical.

5. Lift the first profile against the ladder and fasten it under the entry bow so that it is suspended on the extension sleeve (when installing in the lateral position, the profile must not be left suspended on the extension sleeve). Check that the profile settles in the centre of the ladder.

6. Fasten the profile to the ladder using fasteners no. 10 or 20. See Point 4.

7. Lift the next profiles under the previous ones as described above and fasten them as described above.

8. When tightening extension sleeve 70, make sure that the gap in the profile does not become smaller than 14 mm. The size of the gap must not alter in the extension. The gap can be adjusted using the fastening bolt on the sleeve. The end of the profile can also be modified, e.g. using a heavy rubber mallet.

9. The carriage must be prevented from slipping out of the end of the profile by employing carriage stoppers no 85 or 89. When entry bow is not used carriage stoppers no 89 or no 85 shall be fitted on top of the profile. If the distance between profile and ground level exceeds 60 cm, carriage stopper shall be installed also to the lower end of the profile (see point 5 – carriage stoppers)

10. Climb the full length of the ladder and check that carriage moves flawlessly in the extension parts in particular (see point 11 – Commissioning inspection).
INSTALLATION OF SAFETY LADDERS TBA OR PTBK

1. Spacing:
   – the spacing must be multiple of 300 mm, i.e., 1500mm/ 1800mm/ 2100mm as maximum so that the fastener does not hit the rung.
   – 2 fasteners must be fastened to the top at 1m interval.
   – the lowest fastener is to be fitted approx. 500 mm from the ground, floor level etc.
   – At least 150 mm should be left between the end of the profile and the ground to provide possibility to slip the carriage into the profile
   – when using an entry bow refer to Point 3.

2. Begin the installation from the top downwards. In lattice towers or similar, the installation can often be performed from the lattice using a pulley and rope positioned at the top, which are used to hoist the ladder parts up.

   Installation on columns, walls etc. generally requires the use of scaffolding, lifting platform car etc.

   N.B.
   The safety ladder can also be fitted laterally, e.g., on the tower prior to lifting. Care must then be taken to ensure that the free end of the ladder is not too long so that it does not get damaged during lifting.

   The safety ladder can also be fitted e.g., to a chimney whilst the bricks are being laid. In that case, the top ladder should always be fastened temporarily with two clamps one meter apart, as described above.

3. Fasten the safety ladder with clamps no. 15, 20, 21, 22, 30, 31/35 or 40. (see Point 4 – Installation of clamps.)

4. Perform the installation otherwise in accordance with the instructions in paragraphs 1.4, 1.6-1.10.

INSTALLATION OF ENTRY BOWS

Entry bow, profile B, no. B 50

Top of boom ladder and entry bow PTBK 59.

The entry bow bends towards the top platform to ensure transfer to the platform prior to disengagement from the rail.

5. Bow B 50 should be fastened approx. 80cm above the platform and fastened to the uppermost rung and to the next rung approx. one meter away.

6. Boom ladder PTBK 59 should be fastened so that the uppermost rung is aligned with the top platform. The uppermost clamp should be fitted as high up as possible and the next one approx. one meter lower down. The removable handrails should first be fastened to the platform and then to the flanges using press clamps.
### INSTALLATION OF CLAMPS

#### 4.1 RUNG CLAMP No. 10 for installing the safety profile B

To be used when fastening a safety profile to ladders with a rung diameter of \( \varnothing = 16 - 24 \text{ mm} \). (clamp no. 20 should be used with other rungs).

1. Base part (clamp) no. 15 should be fastened either underneath or over ladder rung.
2. The shorter notch of the clamp goes behind the rung.
3. The length of the clamp’s bolt (M12) must be adjusted to the thickness of the rung:
   - the bolt must pass through the base part.
   - the bolt must not put pressure on the base of the profile.
4. The length of the clamp’s bolt should be adjusted using washers or by selecting a suitable basic length.
5. Make sure that the clamp is straight and in the middle of the profile.
6. Locking bolt M10 and base bolt M12 should be firmly tightened with a spanner, see Point no. 15.

#### 4.2 BASIC CLAMP No.15

To be used for mounting a ladder or profile on various steel structures, thickness 5-10 mm. A longer base bolt (M12x20) will allow fastening to thicker structures.

1. Mount the clamp in the steel structure using the base bolt (M12). Check that the bolt passes through the clamp and that all thread is used. The length of the bolt can be adjusted to some extent using washers.
2. After mounting the ladder/profile, tighten the base bolt (M12) and the locking bolt (M10) firmly. When tightening the locking bolt (M10), care must be taken to ensure that the slot in the profile does not shrink to less than 14 mm.
4.3 UNIVERSAL CLAMP No. 20, 21 and 22 for general installations of safety profile and safety ladders

To be used for mounting:

- A safety profile to thick or angular ladder rungs.
- A safety ladder to tower lattice framework, diagonal bars or other steel structures.

The size of the clamp should be selected to correspond to the cross-section of the steel structures:

- Clamp no 20: L = 22 - 52 mm, H = 80 mm
- Clamp no 21: L = 53 - 82 mm, H = 110 mm
- Clamp no 22: L = 83 - 140 mm, H = 170 mm

1. The shorter thread of dowel bolts should be screwed in to the basic clamp so that the tip of the bolt emerges a couple of mm out of the basic clamps.

2. The basic clamp should be "twisted" over the profile on both sides of the tower lattice framework, diagonal bar, ladder rung etc. of the mounting position. The upper basic clamp must rest on the steel structure and the lower clamp should be at a distance from the upper part that is equal to the back support of the clamp (Dimension H)

3. The locking bolts (10M) of the safety profile should be tightened firmly with a spanner. See also Point no. 15.

4. The locknut should be screwed into the lower dowel to roughly the thickness of the steel structure.

5. Mount the back support of the clamp, and tighten the nuts (M12) firmly with a spanner.
4.4 PYLON CLAMP no 31 for mounting safety ladders TBK/PTBK onto narrow pylons

To be used for mounting a safety ladder onto round pylons (ø max. = 600 mm). Use support no. 35 when mounting on thicker pylons to secure adequate room for feet.

1. Install bearing supports vertically.
   N.B.:
   The space between supports should be a multiple of 300 mm (1500/ 1800/ 2100 mm) to avoid the support being positioned near a ladder rung.

2. The bearing supports are to be fastened:
   - with cotter bolts (G3) 16x115 or similar anchoring to concrete surface
   - with bolts M16 to metal surfaces

3. A supporting bar (60 mm x 8 mm) can also be welded to metal pylons, by drilling a ø = 13 mm hole in the face for the base clamp’s bolt.

4. The base clamp should be "twisted" on top of the profile in the correct rung gap.

5. Tighten the joint bolt (M12) of the supporting bar and base clamp, and the side bolt (M10) of the base clamp firmly with a spanner (See also installation of no. 15)

4.5 WALL MOUNT no. 35 is used for installing safety ladders (TBA/PTBK) to walls, buildings etc.

To be used for mounting a safety ladder to wall surfaces, thick pylons etc. The wall-to-rung space for toes is 200mm.

1. The bearing supports are best installed in turn horizontally and vertically.
   N.B.:
   The space between the supports should be a multiple of 300 mm (1500/ 1800/ 2100 mm) to avoid the support being positioned near a ladder rung.

2. The bearing supports are installed:
   - On brick and concrete surfaces using cotter bolts(G3) 16 x 155mm, or similar anchoring
   - On metal surfaces with M16 bolts.

3. A supporting bar (60mm x 8mm) can also be welded to metal pylons, by drilling a ø = 13 mm hole in the face for the base clamp’s bolt.

4. The base clamp should be "twisted" on top of the profile in the correct rung gap.

5. Tighten the joint bolt (M12) of the supporting bar and base clamp, and the side bolt (M10) of the base clamp firmly with a spanner.
4.6 PIPE CLAMP no 40
To be used for mounting a ladder or profile on various pipe structures. The clamps are made to the given dimensions of D and L.

1. Mount the clamp on the pipe by tightening both mounting bolts (M12) firmly.
2. Basic clamp no 15 is then mounted loosely at the end of the other clamp. After installing the profile or ladder, tighten the bottom screw (M12) of the basic clamp and the lock screw (M10) on the side, see separate installation instructions Section 4, Basic Clamp no. 15.

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4.7 WALL MOUNT no. 110 ... 119
To be used for ladder protrusions of 40...120 cm from the wall. The mount length can be selected in 10 cm steps. E.g., ladders on buildings should be a minimum of 20 cm from the outermost part of the building (usually a gutter).

1. The mounts must be firmly fastened to the wall structures. Fasten them to brick and concrete surfaces using wedged bolts and on wooden structures using through bolting. Min. 10 mm bolts.
2. Install the mounts on the ladder beams using clamps
3. The mounts should be installed with a spacing of max. 3 m, however each ladder section should have at least one pair of mounts and lowest ladder section two pairs of mounts.
5  CARRIAGE STOPPERS

5.1  RELEASABLE CARRIAGE STOPPER No. 85

NOTE! To be used simultaneously with Carriage Guide no. 84

To be installed on the upper end of ladders or a profile to prevent carriage from slipping out accidentally.

1. Slide the carriage stopper into the extension holes so that the handle is on the left side.

2. Install the washer and cotter pin.

3. Check that the carriage stopper does not rub the sides of the profile in any position and that it operates with adequate “clearance”. Bend the U-bow slightly if necessary.

4. Test the functioning of the carriage.

5.2  CARRIAGE GUIDE No. 84

To be installed on the upper and lower end of ladder or a profile to prevent the carriage to be inserted incorrectly.

1. Slide the Carriage Guide into the rail before mounting the Carriage Stopper No. 85 so that the locking bolt is on the left side of the rail.

2. Tighten the locking bolt (M10).

3. Test that the Climbing carriage can not be inserted wrong way.
5.3 **RELEASABLE CARRIAGE STOPPER no. 851**

To be installed on the lower end of ladders or a profile to prevent carriage from slipping out accidentally if the profiles end is higher than 70 cm from the ground.

1. Slide the carriage stopper to the lower end of ladders or a profile in such a way that fastening bolt (M12) shall hit the base notch of the profile.

2. Tighten fastening bolt (M12) and locking bolt (M10)

3. Test the functioning of the carriage

5.4 **FIXED CARRIAGE STOPPER No. 89**

To be installed as a permanent carriage stopper.

1. Mount on top of the profile and tighten the side bolt (M10) firmly with a spanner.

2. The profile must have a minimum of 50 mm of free end for the stopper.
5.5 RELEASABLE LATERAL CARRIAGE STOPPER No.86

Lateral carriage stopper no. 86 is fitted to lateral profile VB to stop the lateral carriage from slipping out accidentally.

The carriage stopper works in profiles with the slot sideways. If the slot is downwards, carriage stopper no. 85 must be used.

1. Install the clamp part of carriage stopper no. 86 above the profile.
2. Tighten the locking bolt and check the operation of the stopper.

6 SEAT REST no. 105

The seat rest is installed between the profile rungs immediately below a rung. The seat rest does not hinder climbing and sitting is possible without releasing the carriage.

1. The seat rest is "twisted" to the front of the ladder and locked in position by tightening both mounting bolts.
2. In high towers, a distance between rests of approx. 10 - 15 m is recommended.
LATERAL USE, BENDING AND INTERCONNECTIONS

1. The lateral safety profile (VB) can be installed either with the slot on the side or facing downwards. The profile is mounted at intervals of a maximum of 3 m using the clamps described earlier. Extensions should be located as close to fasteners as possible. The slot in the lateral profile should be mounted in the direction in which the tensile stress plays in the event of a fall.

2. The safety rope should be in conformity with the EN 358 standard, with length adjustment. The length must be adjusted so that the free fall is as short as possible in all situations.

   Lateral mounting can be done using:

   – Safety carriage no. 932 for climbing (e.g., short level shifts in towers)
   – Safety carriage no. 951 for horizontal use
     – Safety carriage no. 951 is fastened to the belt using a safety rope, and it follows the user freely as he moves about the profile and does not jam.
     N.B. Safety carriage no. 951 must under no circumstance be used for climbing.

3. Bending and interconnections are possible. Please get in touch with the manufacturer where necessary
PROTECTION AGAINST FREEZING

Rubber seals no. 60 can be used if necessary for protecting safety profile B against freezing. There is no need for any kind of heating. The "chimney effect" keeps the condensation water out of the profile. As it climbs, the safety carriage readily breaks ice up to several centimeters thick with the aid of the weather protection seals. Experiences gained in Finnish Lapland have shown that it also functions reliably in extremely severe conditions. (Technical Research Center of Finland, research report MET 9811/79 – Freezing tests.)

It has been determined that rubber seals are often unnecessary since ordinary snow and ice do not prevent functioning. This means that rubber seals can be omitted from the initial installation and fitted later if necessary.

1. The weather protection seal is installed from the top downwards by pressing the "fish-tail" of the rubber profile into the groove of the profile from both sides. A light weight wooden or rubber mallet can be employed. The lap of the profile should be lubricated with e.g., detergent along 0.5m, and then the rubber should be pressed or tapped into the groove before the lubricant dries. Oil-based lubricant must not be used since it damages the rubber.

2. End cap no. 80 should be fitted to the end of the profile to protect it. The cap should be pressed into position. End caps should not be fitted to an entry bow.

N.B.
Rubber seals should not be used on horizontal profiles.

SAFETY PLATFORM INSTALLATION

9.1 Installation of rope slope mount no. 650 (felt, tin roofs etc.)

If both slopes are to be used with the help of a rope fastened to the safety platform, the platform should be installed as near as possible to the ridge so that the slot in the safety rail on the side of the ridge is roughly at the same height as the ridge. In other cases, look for the most suitable line least interrupted by chimneys, air-conditioning etc. When the spot for the platform has been chosen, mark it with an alignment wire. The support is mounted using two trough-going bolts either through the roof truss or into the roof battens whereby e.g., a 50 x 100 x approx. 0.8m auxiliary plank is fitted using M8 or M10 bolts. Install a rubber sealing washer between the foot and roof (tin or felt roof) and a large ø 30 x 3 washer under the nut. The bolts should be tightened carefully. The driest possible wood should be used, since as damp wood dries out it may damage the sealing. The basic structure can be adjusted for slopes of 0 – 35° or 0 - 1:1.45. Steeper slopes must be indicated when ordering so that a longer slope adjustment bar can be supplied.
9.2 Installation of roof slope mount no. 650 (tile roofs)
Mount tile roof battens, min. 50 x 100mm, underneath the platform. These should be nailed firmly to the roof trusses, and the extensions reinforced with an auxiliary plank. Two tiles should be left out of each foot mounting point, and the opening covered with planks and sheet metal. Then install mount as described above.

9.3 Mounting distances
The fasteners should be mounted at intervals of approx. 3 meters on straight paths. The first fastener at the end should be mounted at intervals of approx. 1.5-2 m. The profile extensions should be as close to the fasteners as possible.

9.4 Strength check
The auxiliary wooden planks under the roof can be positioned right next to the roof trusses and bolted using two trough-going M10 bolts (2 pc. per plank). Large ø 30 x 3 washers should be used. The main burden is then borne by the roof trusses.

If the auxiliary plank is placed between the trusses in fairly lightweight roof battens, its strength must if necessary be secured using e.g., extra metal bands mounted from the bolt heads to the nearest support structure, roof truss or ridge beam or some supportive point which meets the requirements.

9.5 Profile Installation
After fasteners have been mounted, safety profile VB or supporting profile no. 659 can be put in place. The profiles are secured using M10 x 20 bolts. The bolts must not be over-tightened to such an extent that the profile slot is reduced to less than 14mm. The VB profiles are extended using sleeve joints no. 70 and profile no. 659 with joint no. 68. The bolts should be tightened and care taken to ensure that the slot is not reduced to less than 14mm. Check the settings of joint no. 70 and correct discontinuities with e.g., a mallet.

9.6 Installation of intermediate supports no. 657
Mount the supports on the profile at maximum intervals of 1 m. (Fasteners no. 650 also function as supports.) Mount the clamping jaws using bolts, but do not tighten them yet.

9.7 Installation of steel grid no. 656
The grid should be set on the supports using M8 x 20 lock screws through the middle holes onto the supports. The next grid is set on top of the previous one so that at least one set of mounting holes interlace. The grids are then fastened onto the support using a common screw. The mounting bolts of the intermediate supports are to be tightened only once all of them have been set to the final position (all the holes are aligned)

The free profile heads of the walking platforms are to be fitted with either fixed lateral carriage stopper no. 89 or releasable lateral carriage stopper no. 86 to prevent the carriage from slipping out accidentally. (See Section 5)
10 COMMISSIONING AND TESTS

10.1 Commissioning inspection

- A commissioning inspection must be performed on the system and its parts prior to use. The inspection is designed to determine whether the installation has been carried out in accordance with the instructions, whether the mountings have been executed properly and the bolts tightened with care. The functioning of the equipment is also tested, and a protocol of the inspection is compiled. A trial climb should be performed.

Parts of the system are not to be changed to similar parts of other manufacturers.

10.2 Visual inspection by user

Prior to use the user should always perform visual inspection of the carriage as well as of other parts of the system. Attention must then be paid to the following aspects:

- The safety belt / full body harness is in the condition stipulated in the relevant regulations.
- The climbing carriage is in a proper condition. If an inspection of the carriage reveals exceptional wear and tear, a broken spring (the latch of the carriage is not automatically outside of the carriage body) or an opening in the spring absorber of over 10 mm, the carriage must be immediately sent to the manufacturer or retailer for inspection and repair.
- The safety ladder structures as well as the structures onto which safety ladder system is fastened are intact and in good order.
- The bolts of all the clamps and extensions are tightened reliably.

A written notification of any defects observed must be sent immediately to the labor protection organization of the company or institution. Each defect must be rectified prior to use.

10.3 Inspection of system and its parts

A inspection of the fixed structures is to be performed every 12 months by an inspector authorized by the supplier, or immediately whenever a user gives notice in accordance with the preceding section of a detected shortcoming or defect. The inspection should pay particular attention to the following aspects:

- The safety ladder structures and also the structures which the safety ladder system is fastened to are intact, the weld joints are in good condition and there is no appreciable corrosion.
- The product markings on the structures and parts are readable
  Climbing profile B:
  - product mark TURVATIKAS SAFETY LADDER
  - CE0403 notified body
  - EN 353-1 = standard applied
  - No 930 CE or No 931 CE or No 932 CE = this means that only Climbing Carriage no 931 CE is allowed to use in the profile.
- The bolts on the clamps and joints are correctly adjusted (no sills in the joints) and tight.
- The carriage stoppers, possible seat rests and other accessories are in position and intact.
- A trial climb should be performed.
If defects are detected during the inspection, the system should be banned from use until the defects have been rectified. A protocol of the inspection should be compiled. All inspections should be marked on product register enclosed to the installation instructions.

10.4 Inspection of personal accessories

A basic inspection of personal accessories (climbing carriages) is to be performed in connection with the annual inspection of the other personal accessories (safety belts/harnesses and ropes).

Ensure readability of product markings.

If an inspection of the climbing carriage reveals exceptional wear and tear, a broken spring (the latch is not automatically outside of the carriages body) or an opening in the spring absorber of over 10 mm, the carriage must be immediately taken out of service and sent to the manufacturer Eltel Networks Corporation for inspection and repair. A protocol of the inspection should be compiled.

Under no circumstances user should not try to repair the carriage - instead it should be always sent to Eltel Networks Corporation for repair.

The carriage should be taken out of service after possible falling of the user.

Check the product markings from operation instruction of the climbing carriage.

10.5 Type examination and quality assurance

The climbing carriage/ safety rail combination has been tested according to EN 353-1:2002 standard, prEN 353-1:2008 and method VG11 RfU11.0073 and meets the requirements of the Directive on personal protective equipment 89/686/EEC, as amended.

The type examination certificate has been granted by the Finnish Institute of Occupational Health, notified body no 0403. The Finnish Institute of Occupational Health also monitors the uniform quality of production.

The horizontal carriage / profile combination has been tested in accordance with standard proposal EN 795:2001

11 MAINTENANCE

The structures of the climbing carriages are made of stainless steel, nylon or bronze, and so they are not prone to corrosion and weather damage. The carriages have no joints or precise fits. They do not need to be oiled or greased. The carriages withstand even rough handling and there are no special requirements on their storage or maintenance.

The fixed steel structures in the system do not require special maintenance or storage either.
12 INSTRUCTIONS AND FUNCTIONS

1. The safety harness should be a CE approved full-body-harness conforming to the EN 361 standard, e.g., full-body-harness belt no. 632. Connect the climbing carriage to the full-body harness by snap hook (connection point A or two points marked with ½A to be used together simultaneously). When working on masts safety harness should have two fixed ropes one on which having adjustable length (sliding regulator). Follow carefully the instructions for use supplied with full-body harness and safety rope. Always check that the climbing carriage is compatible with the safety rail. (see. Point 10.3)

2. In vertical use, the distance between the safety harness and carriage should be adjusted so that the leaning angle is as small as possible (Small changes in the tightness of the belt make a significant difference). The strain on the belt is then minimal. However the climber’s knees should not come into contact with the ladder rungs.

3. Lean gently on the safety harness when climbing. The carriage springs will then yield and the carriage will move without obstruction. The hands are needed mainly for steering the climb. The leg muscles perform the work and climbing is easy.

4. If the dragging force acting on the carriage ceases – e.g. during a fall – the safety carriage turns and locks onto the next recess claw of the profile at a maximum distance of 15 cm.

5. Horizontal carriages for lateral use must under no circumstances be used for vertical climbing. The carriages have broad tolerances for use and their structures are made of stainless steel or other non-corrosive material. The structure of the carriages has been developed for aggressive use, which means that prolonged heavy use in poor conditions will not prevent reliable functioning.

6. Several users at a time may work on safety profile but please ensure that distance between users is at least 3 meters.

7. RESCUE PROCEDURE

A rescue plan must be prepared prior to each operation and feasible methods of rescue must be ready to put into action in case any problem with the climbing carriage shall arise during operation.
SIGN PLATES

1. The safety ladder should be fitted with a clearly visible sign plate advising climbers to use a climbing carriage and full-body-harness whenever they mount the ladder. There should be an additional plate indicating where the safety equipment is kept. The signs shall be in local language.

2. The walking paths of the safety rails on the roof should be fitted with a clearly visible instructions plate advising users to use a lateral carriage and full-body-harness whenever they are on the roof. There should be an additional plate indicating where the safety equipment is kept.
# PRODUCT REGISTER

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## INSPECTION DATE AND COMMENTS REGARDING SAFETY PROFILE B

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