1. SET OUR DRILLING AXIS AT ABOUT 250 MM FROM THE WINDOW FRAME.
   a) DRILL THE UPPER FIXATION HOLE TAKING INTO ACCOUNT A 1500 MM DRILLING PITCH AND THE LADDER HEIGHT.
   b) DRILL THE LOWER FIXATION HOLE AT ABOUT 650 MM FROM THE GROUND.

2. FIX BOTH THE UPPER AND LOWER CLIPS EACH WITH A CARRYING GUIDE. TIGHTEN THE GUIDES AFTER HAVING STRETCHED A STRING BETWEEN THE GUIDES AT A SUFFICIENT DISTANCE FROM THE WALL FOR A PERFECT ALIGNMENT OF THE OTHER GUIDES.

3. SUCCESSIVE POSITIONING OF REMAINING WALL CLIPS.
   a) LATERAL POSITIONING ALONGSIDE THE STRING AND TIGHTENING OF THE CLIPS.
   b) POSITIONING ALONGSIDE THE STRING AND TIGHTENING OF THE CARRYING GUIDE.
4. Insert the basic element in the installed row of carrying guides.

5. Insert the carrying guides between the clips and the element. Tighten and make sure that the open ladder is perfectly perpendicular to the wall.

6. Lift, insert and fix the next element.

N.B.
The opening handles are fitted at about 1500 mm from the outlet level according to the release procedure.

7. The open element(s), bolt the fast upright, and the opening slide.

8. Fit and bolt the mobile upright.

9. Fit and bolt the guard-rail.
fixation of a u-section for roof overshooting.

1. Align the reinforcement u-section with the lower clips
   - a & b: fixing with two expandable sockets.
   - c & d: fixing of the reinforcement squares.

2. Insert the upper element in the installed row of carrying guides and fit into the lower fast element.

3. Slip the other row of carrying guides from the upper part of the reinforcement u-section and tighten them in the guides.

4. Place the release on top of the reinforcement u-section.
1. Position the first U-section.
   a. Expandable socket at the base.
   b. Fixation square at both parts on top of the U-section with counter-drilling on the section.

2. Insert the basic element in the row of carrying guides alongside the string at one single side.

3. Slide the other row of carrying guides from the top of the U-section, fit and bolt the following U-section.

4. Fit and bolt the second element.
   c. In order to improve the assembly use tapped junction flats behind each element. These flats are supplied with the assembling elements of the climb protection U-sections.
**LEGEND**

1. Front shaft retainer
2. Back shaft retainer
3. Release shaft
4. Buffer washer
5. Retaining socket screw
6. Pinion
7. Feeding pin
8. Ejector
9. 8 mm spacing washer
10. Retaining screw hole
11. Drilling template
12. Fixed side
13. Pre-bored hole
14. Opening handle
15. Retainer fixing screw
16. Slotted spring
17. Taped flat rail
18. Opening slide
19. Rackrail
20. Slide retaining bolt
21. Groove
22. Six-sided cylindrical head screw

**IMPORTANT REMARKS**

1. Due to the raw material's electrical conductivity, it is absolutely necessary to connect the ladder to earth.
2. The fitting of the opening mechanism can also be done when the ladder is fitted to the building.
3. Pay attention to the fact that the slide (18) could come out of the side (upright) when the bolt (20) is removed.
4. When fitting opening mechanism, care must be taken that it does not coincide with the wall retaining bracket.

**DRILLING FOR FITTING OPENING MECHANISM**

a) Remove bolt (20) at bottom of ladder (fig. A) and push up the slide (18) to open ladder.

b) Keep ladder open by means of length of wood approximately 27 cm (fig. B). It is essential that the length of wood is properly placed as the ladder is spring loaded and there is a risk of serious hand injuries if the wood slips.

c) On the fixed side of the ladder (12) (wall side) choose the hole (13) corresponding to the desired position for the opening mechanism.

d) If the position (13) where the drilling template (11) is fitted is not convenient, remove the template and fit on next position (13) (fig. C).

e) bore the 3 holes to fix the release mechanism. Drill 6.5 mm diameter.

f) Remove template (11).

1. Increase the central hole to 11 mm diameter.
2. Remove all metal cuttings after drilling.

**FITTING OPENING MECHANISM**

a) Align the opening slide (18) with the edge of the upright (fig. A).

b) Fit front shaft retainer (1) on fixed side (17) with screw (15) finger tight.

c) Press the back shaft retainer (2) in the slot of the fixed side (12) (fig. B).

d) Press the rackrail (19) on the slide, the tongue towards the top of ladder (fig. D).

e) Push in release shaft (3).

f) Slip on buffer washer (4).

g) Slip on pinion (6) with cone positioned as shown (fig. D).

h) Slip on ejector (8) and spacing washer (9).

i) Fix the buffer washer (4) on release shaft (3) tacking care that the socket screw (5) lodges firmly into the hole (10) in release shaft.

j) Tighten up the 2 hexagon cap screws and 1 six-sided cylindrical head screw (13-22) of front shaft retainer.

k) To fix, brace the groove on both sides of back shaft retainer.