



METALMASTER®

ROOF LADDERS 460 and 660 mm

MMR 20

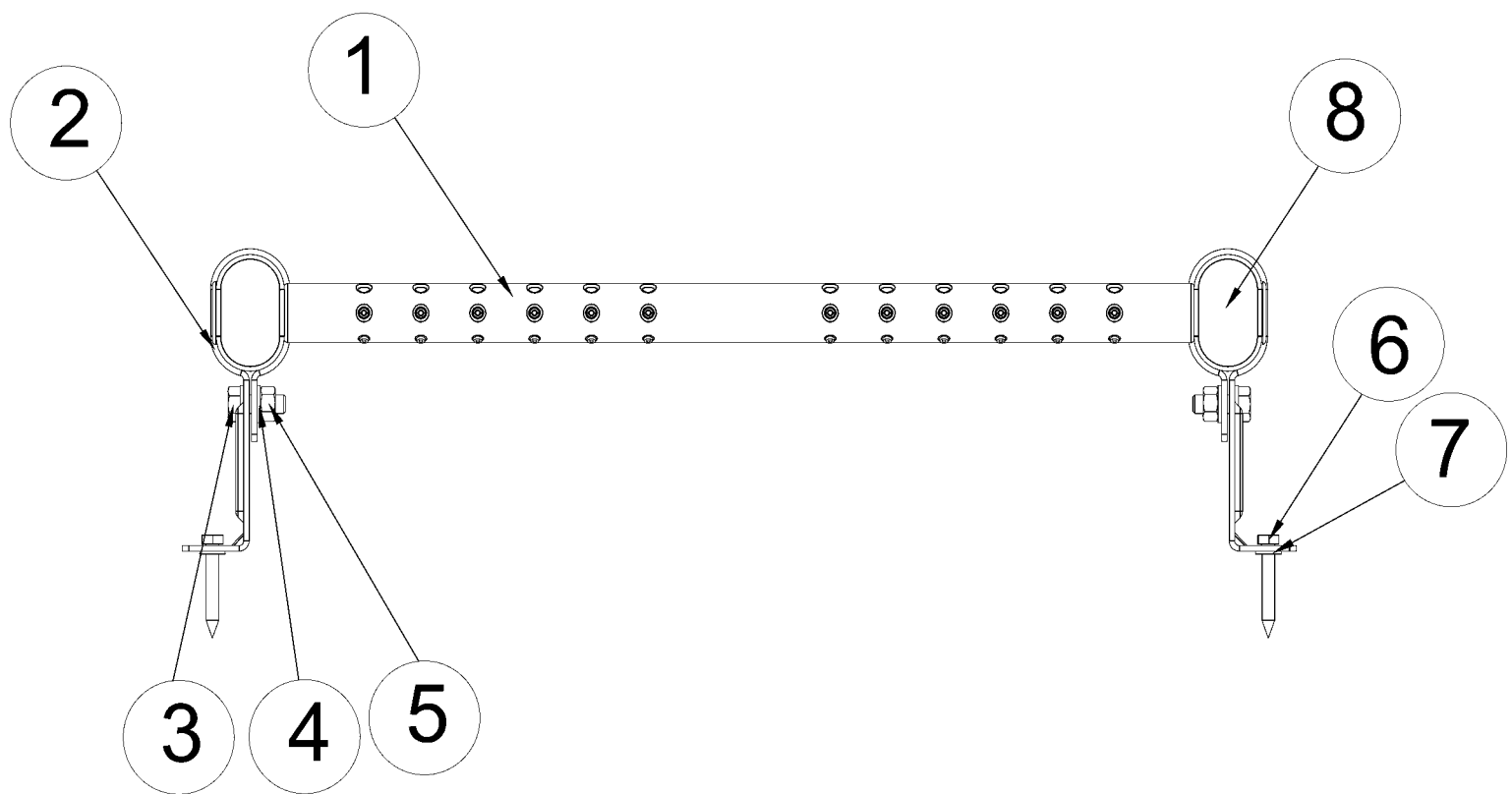
MMRN 45

VILO

VENEZIA

INSTALLATION GUIDE

MMR 20, MMRN 45, VILO, VENEZIA 460 and 660 mm roof ladders



MMR 20, MMRN 45, VILO, VENEZIA 460 or 660 mm roof ladder installation kit		Kit
Pos.	Name	Quantity
1.	Ladder	1*
2.	Q-bracket plate	8*
3.	M8x20 screw	8*
4.	M8 washer	8*
5.	M8 self-locking nut	8*
6.	M8x60 screw	8*
7.	M8 rubber washer	8*
8.	Plastic end pieces	4

* Quantity depends on the number of kits.

Safety

- No more than one person, weighing up to 110 kg, may be on the roof ladder at any single time!
 - A roof ladder is required if the pitch of the roof is greater than 10°.
 - Do not use roof ladders with visible damage or defects!
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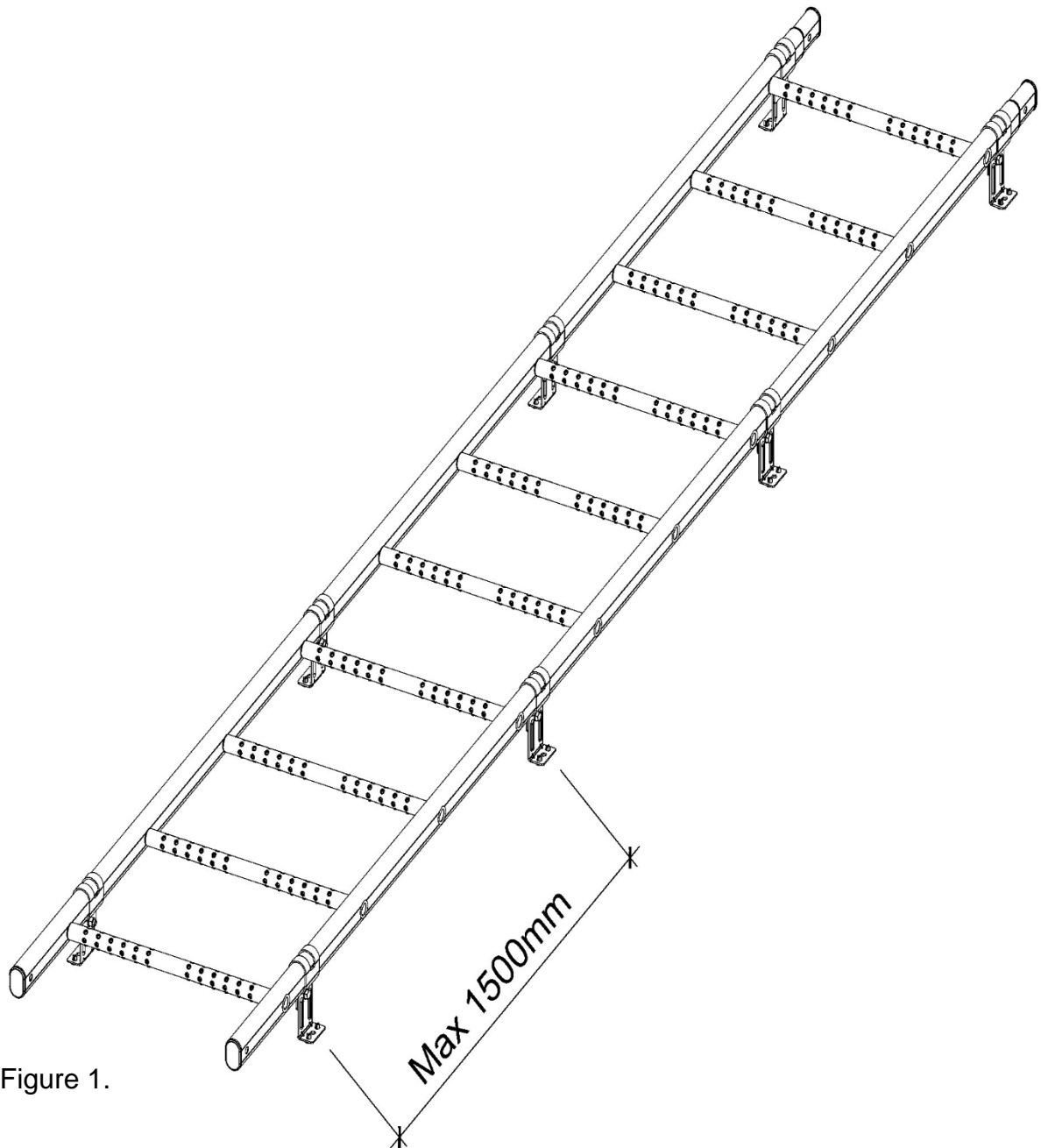
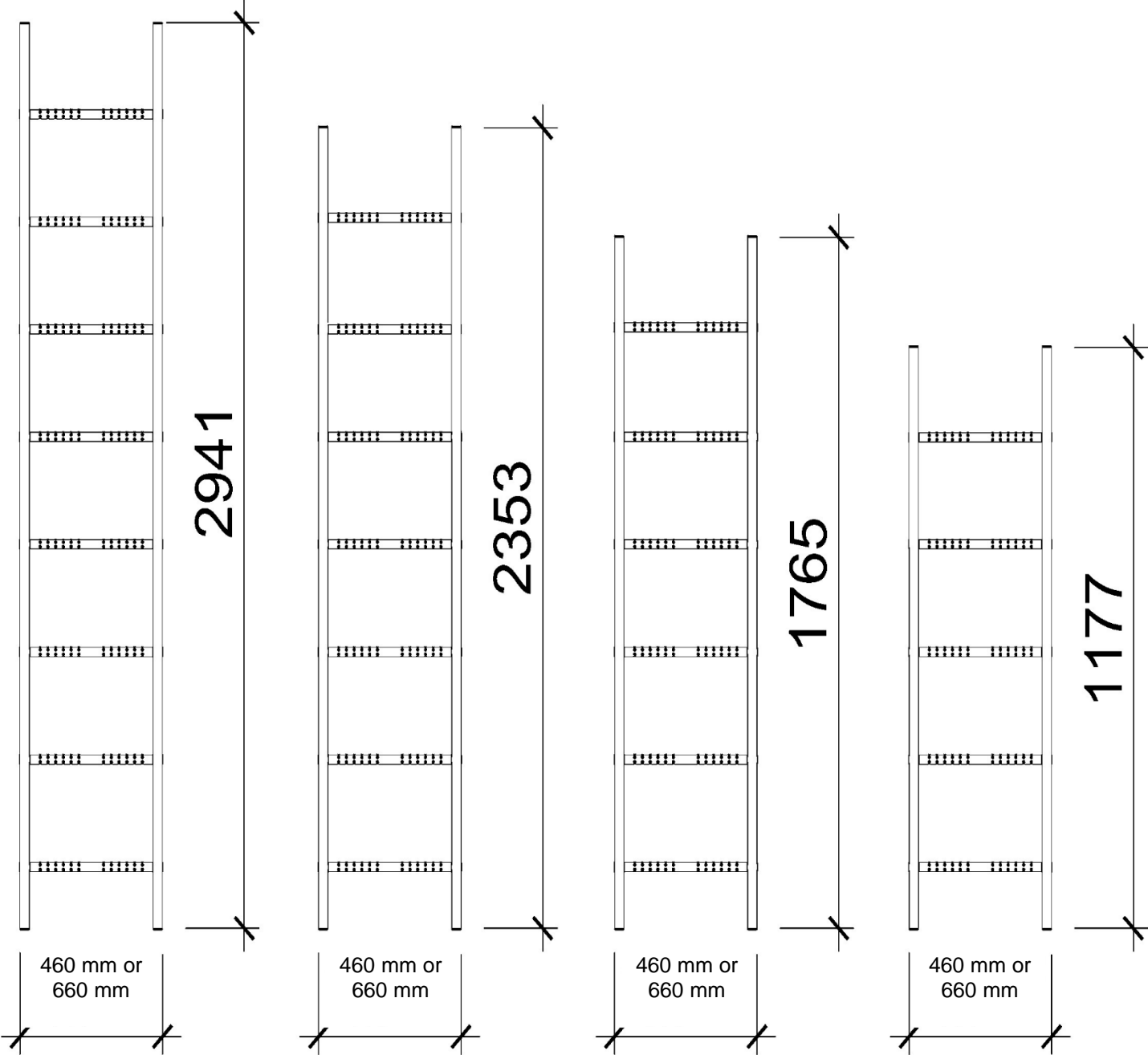


Figure 1.

Roof ladders are available in four different lengths:



Installation of roof ladder brackets

- Plan the location for installation.
- Make sure that the roof structure is stable.
- The roof ladder bracket plates must be installed on top of the roof battens.
- Check to confirm that the roofing is installed according to the roof installation instructions.
- Install the Q-bracket plates on the sides of the roof ladder and fasten them together using an M8x20 mm screw, M8 nut, and M8 washer (Figure 2).
- Join the Q-bracket plates with the roof material using an M8x60 screw and an M8 rubber washer (Figure 2).
- Tighten the screws such that the Q-bracket plate holds firmly on the roof material (Figure 1).
- Place the plastic end pieces at the ends of the roof ladder (Figure 1).
- The roof ladder can be easily extended by inserting roof ladders, one inside the other, at the ends of the roof ladder (Figure 1).
- The maximum interval between Q-bracket plates is 1500 mm (Figure 1).

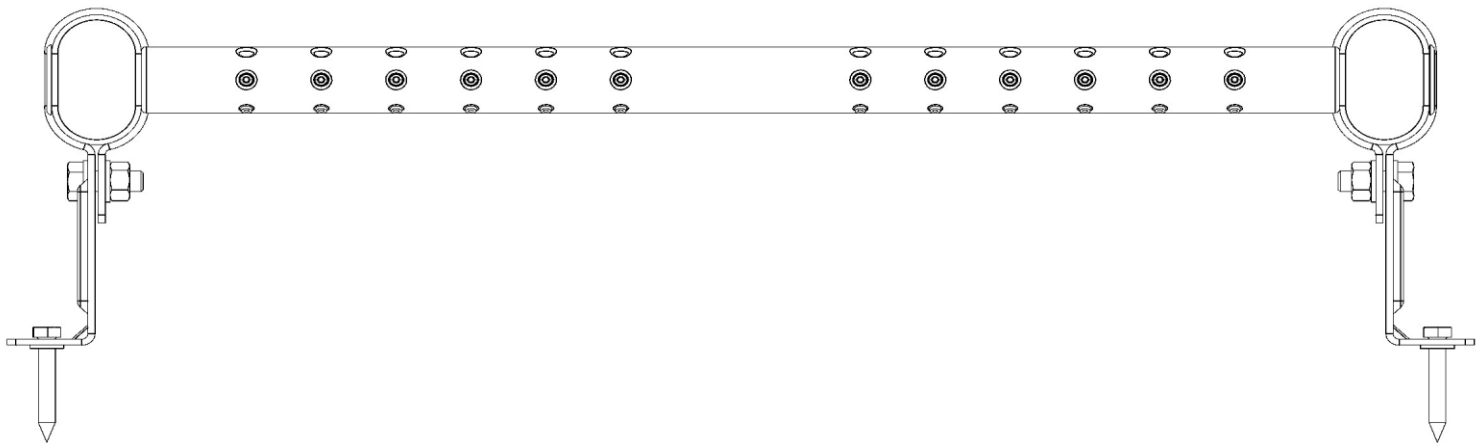


Figure 2.