

MAFI 4600*

Freestanding Corner Mount



MAFI 4601

Designed to provide mounting opportunity for antennas and other equipment on locations where freestanding solutions are needed.

Flexibility

The structure is designed to support equipment-carrying tubes using ballast as counter weight. This provides mounting opportunity without penetrating weatherproofing layers on rooftops. Adjustable ballast-carrying cross beams make it possible to account for different sizes of concrete blocks depending on availability. The interface between the frame and the equipment pole is a cone-shaped folded steel sheet that provides a three point contact even when tilting so that the pole can be kept vertical if the surface is sloping.



MAFI 4602



MAFI 4600

Detailed design data

Detailed design data for this product can be found at www.mafi.se.

How to Order

To order this kit, please contact MAFI quoting article number:

4600 or E-order number (SEG): **6000689**

4601 or E-order number (SEG): **6000690**

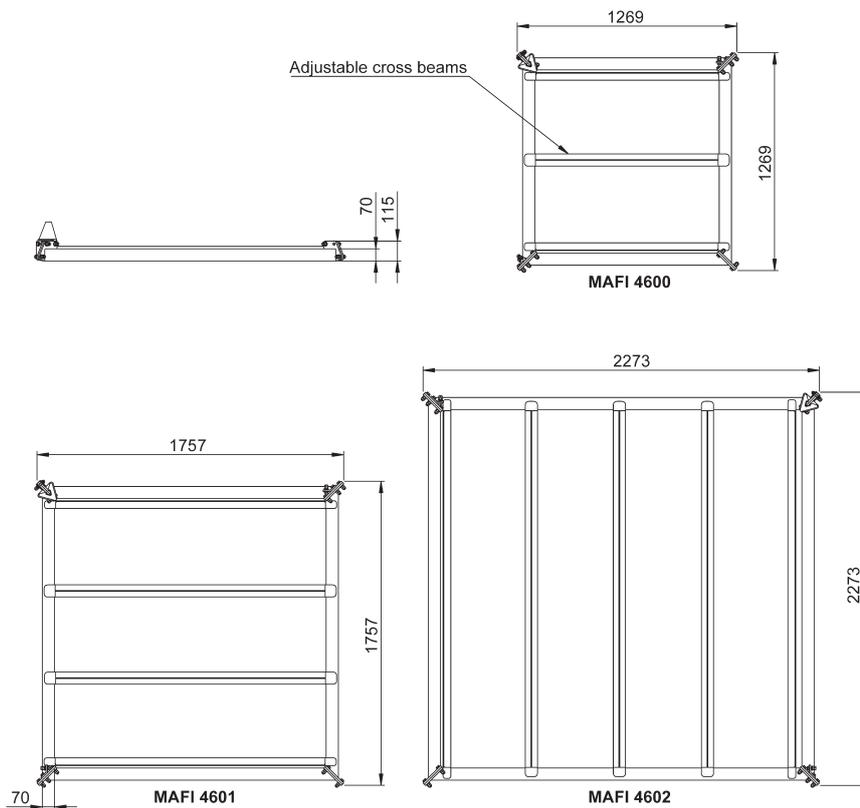
4602 or E-order number (SEG): **6000691**

Contact information can be found at www.mafi.se.



Content of kit

MAFI 91124
Optional



Equipment pole



Ø 76.1 mm

Tightening torque

View mounting instructions.

Ballast block capacity

MAFI 4600: 2 rows

Length: 1040 mm

Width: 100 – 505 mm

MAFI 4601: 3 rows

Length: 1540 mm

Width: 100 – 505 mm

MAFI 4602: 4 rows

Length: 2040 mm

Width: 100 – 505 mm

Part list

Parts	Material	Quantity
Sheet steel parts	S355MC FZV	-
Frame side tubes	S355J2H FZV	4
Nuts and bolts	8.8 FZV or equivalent	-
Struts	P235TR1 FZV	2
Protective mats	Cell polyethylene RG 100	4

Package data

Product	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
4600	1250	350	350	65
4601	1750	350	350	105
4602	2300	350	350	137

Product options

MAFI 42071: 500 × 500 × 50 mm, 25 kg concrete block.

MAFI 91124: Additional strut for yoke arms to be attached to Ø 76.1 mm tube.

Tubes of various lengths and diameter can be ordered from MAFI.

Tightening torque

Recommended maximum tilt: 4°.



EN 1090

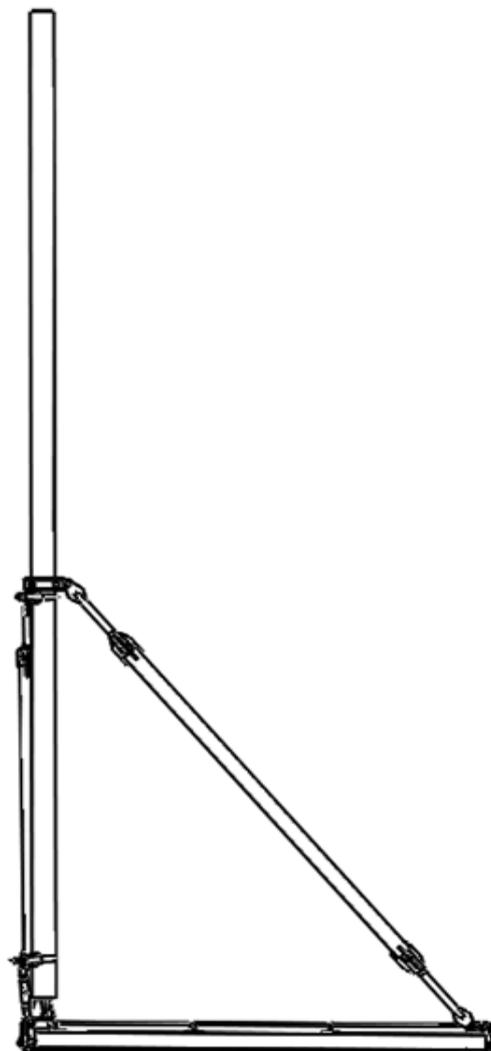
Design resistance data

The load limits given in this data sheet apply to the MAFI product only. The designer should always check that the supporting structure can safely carry the loads applied to it by the MAFI product.

Overturning resistance

For this family of freestanding structures the critical dimensioning parameter is the ability to resist overturning. The figures in the overturning moment table need to be higher than the moment applied by the design wind loads (i.e ultimate load including load factors) acting on the pole and the supported equipment.

The roof structure should be checked by an engineer to confirm that it can withstand the total weight of the structure. Also it should be confirmed that the friction between the product's rubber mat and the roof is enough to prevent sliding.



Overturning moment table

Product	Ballast onfiguration	Overturning resistance M_R (Nm)
4600	Max ballast 224 kg	1410
4601	Max ballast 504 kg	4260
4602	Max ballast 896 kg	9790

For custom calculations regarding design resistance for overturning, use the formula and the table below. The maximum allowed ballast and overturning resistance is not to be exceeded.

$$M_R = (\text{Ballast weight} + \text{Product weight}) \times 9,81 \times \text{Lever arm}$$

Product	Lever arm (m)	Product weight (kg)	Max overturning resistance (Nm)
4600	0.58	48.5	1410
4601	0.83	74.0	4260
4602	1.10	107.5	9790