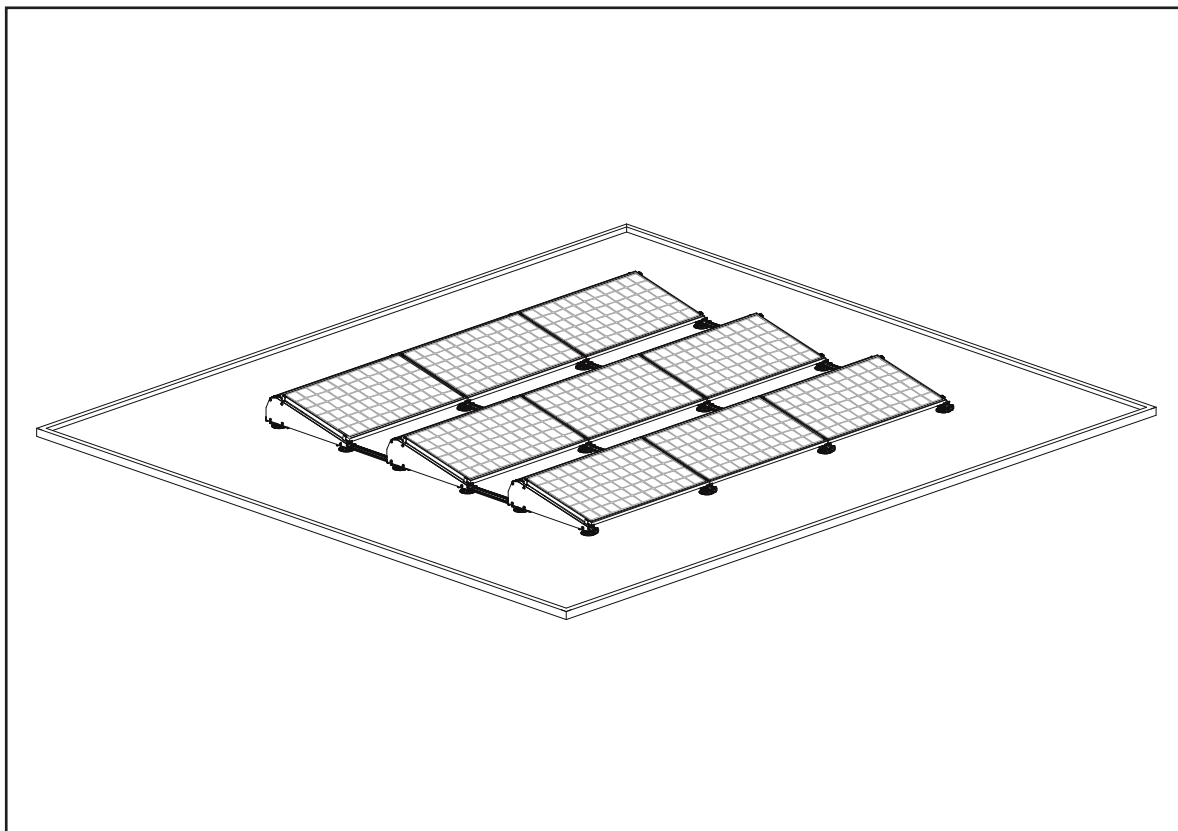


PROJECT SPECIFICATIONS

FLATFIX FUSION MOUNTING SYSTEM FOR FLAT ROOFS



Project: MS_U_Stadionu_F
V_sprava

Date: 27-3-2020

Client:

Reference:

Paderbornstraat 4
7418 BP Deventer
The Netherlands

Phone	+31 570 624 177
Fax	+31 570 621 485
Mail	info@clickfit.nl

Flatfix Fusion is a product of Esdec B.V.
Flatfix Fusion ist ein Produkt von Esdec B.V.
Flatfix Fusion is een product van Esdec B.V.

CLICKFIT.NL



PROJECT SPECIFICATIONS

FLATFIX FUSION MOUNTING SYSTEM FOR FLAT ROOFS

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Project specifications

Date	vrijdag 27 maart 2020 13:19:13
Client	
Reference	

Location

Location	
Terrain	Terrain category III
Consequences class	CC1
V _{bo}	25
C _{dir}	1
C _{season}	1
C _{r(z)}	1
ρ	1.25
Wind pressure	469 N/m ²
Height	4.22 m
Edge zone	395 mm
Parapet	200
Roof angle	2°*
Roofing	0,45 (PVC/TPO)
Membrane fastening	Fully burned
Segment count	1

*At roof angles beyond 3 degrees on bitumen and EPDM roofs or beyond 2 degrees on PVC and other roof types the system must be glued or fastened mechanically.

System specifications

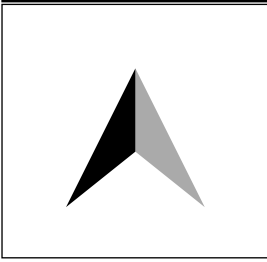
Panel type	Axitec 325Wp
Panel dimensions	1675x992x35mm
Panel weight	18.5 kg
Panel power	325 Wp
Panelcount	20 st
Total power	6500 Wp
Mounting angle	13°
Configuration	Single
Row distance	1700 mm
Orientation (West=90, South=0, East=-90)	0°
Average return indication (Kwh/year)	5850 Kwh/jaar*
Average return indication (Kwh/Kwp)	0.90 Kwh/Kwp*

*Based on PVGIS, location De Bilt, Netherlands with a shadowfree setup using a row distance of 1700mm. No rights can be derived from this information.

Ballast options

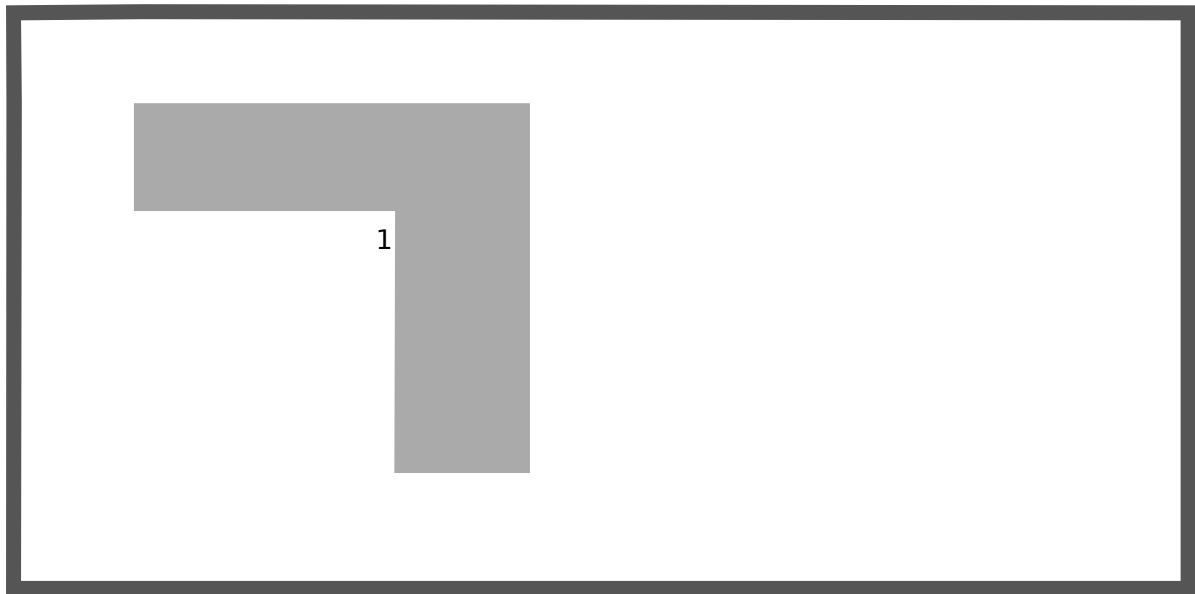
concrete slab(210x100x80mm, 4kg/st)	44 st
Gravel(diameter 3cm, 1600kg/m ³)	0.110 m ³

Complete overview Roof A



■ Panels

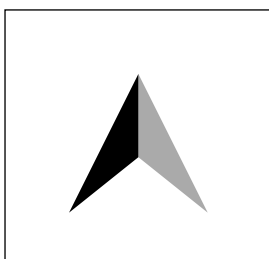
■ Area to be kept free



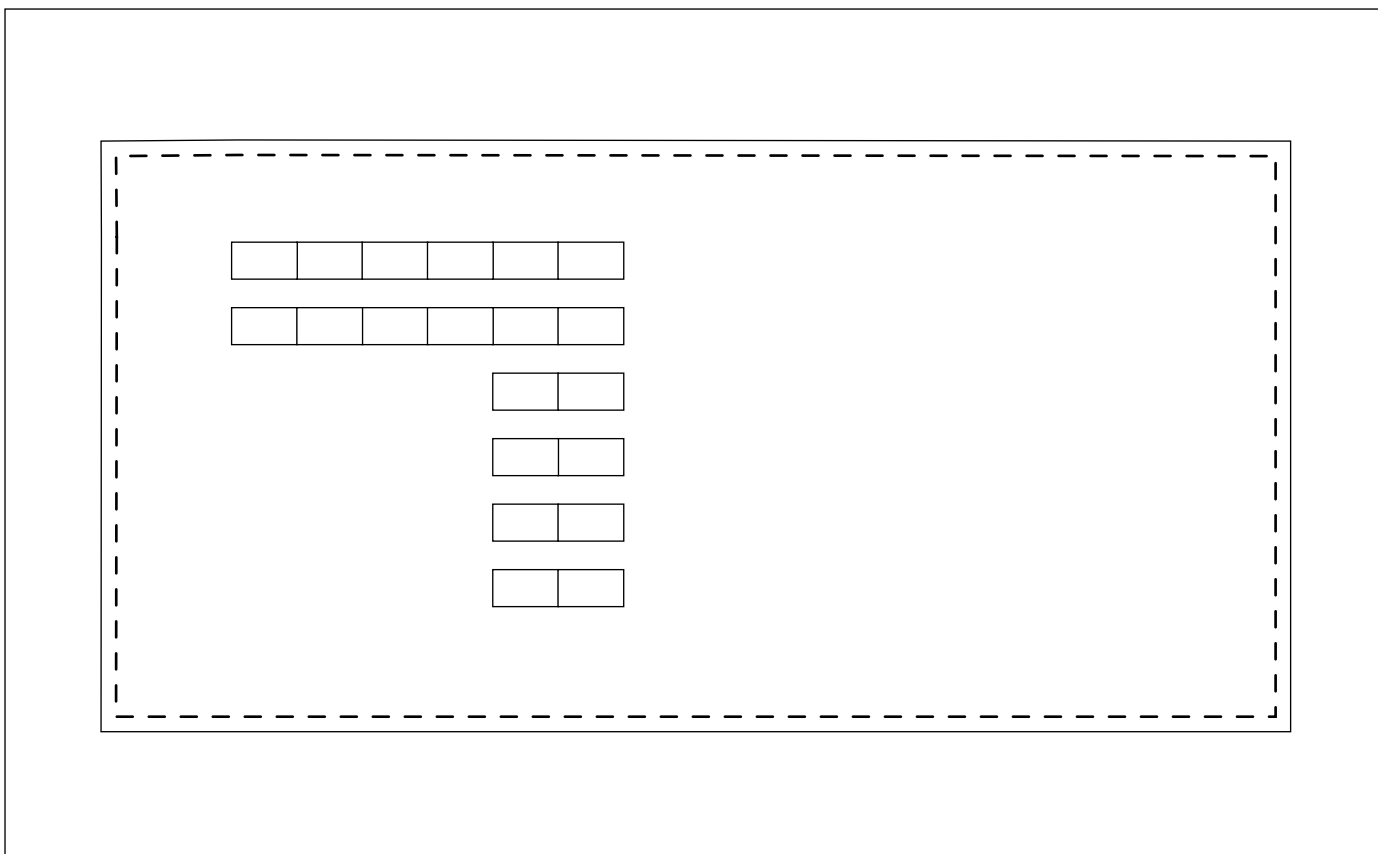
Roof load(static)

Weight panels	370 kg
Weight Flatfix fusion	151 kg
Weight Ballast	176 kg
Total weight	697 kg
Roof area(gross)	473 m2
System area(projected area)	57.63 m2
Average roof load over system area	12.11 kg/m2
Average roof load over roof area	1.47 kg/m2
Roof load over ballasted area	19.87 kg/m2
Roof load over unballasted area	9.06 kg/m2
Average point pressure (at base plate)	6.6 kPa*
Max. point pressure (at base plate)	11.9 kPa*
Min. point pressure (at base plate)	3.5 kPa*

*Irregularities in the roof can cause deviating point pressures



--- Edge zone

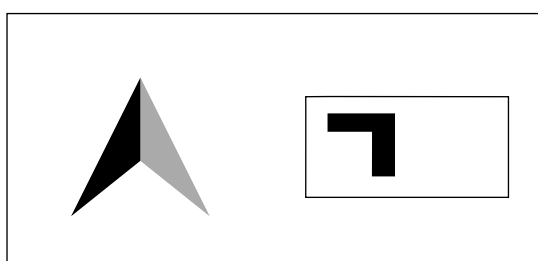


System specifications: Roof A, Segment 1

System specifications

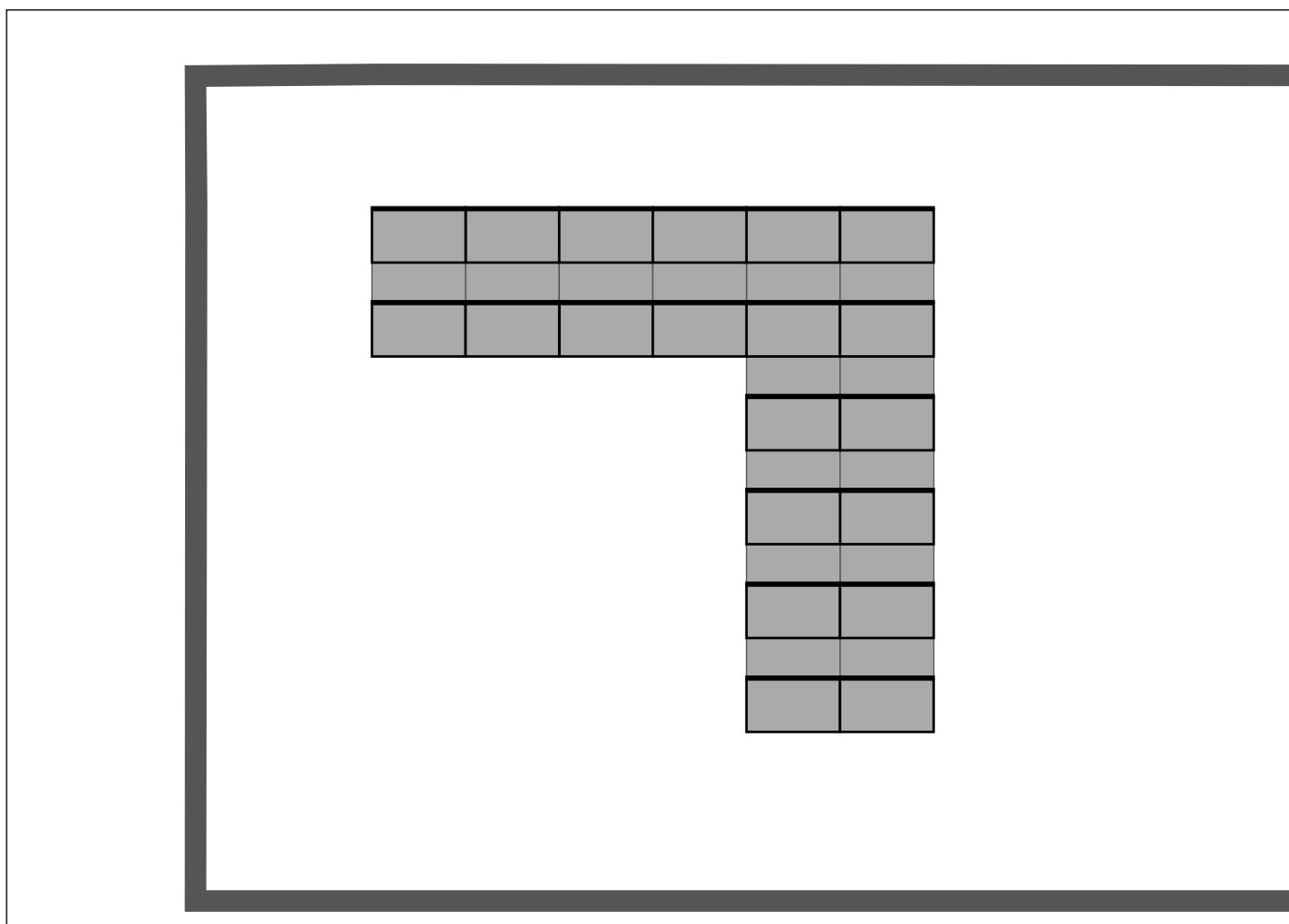
Panelcount	20 st
Total power	6500 Wp
Configuration	Single
Row distance	1700 mm
Orientation (West=90, South=0, East=-90)	0°
Average return indication (Kwh/year)	5850 Kwh/year*
Average return indication (Kwh/Kwp)	0.72 Kwh/Kwp*

*Based on PVGIS, location De Bilt, Netherlands with a shadowfree setup using a row distance of 1700mm. No rights can be derived from this information.



■ Panels

■ Area to be kept free



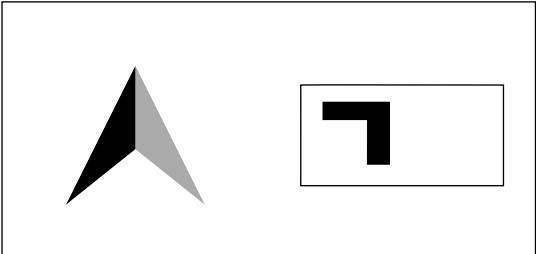
Ballast weight: Roof A, Segment 1

Ballast weight

Ballasted	9 st
Weight Ballast	176 kg

Ballast options

concrete slab(210x100x80mm, 4kg/st)	44 st
Gravel(diameter 3cm, 1600kg/m3)	0.110 m3



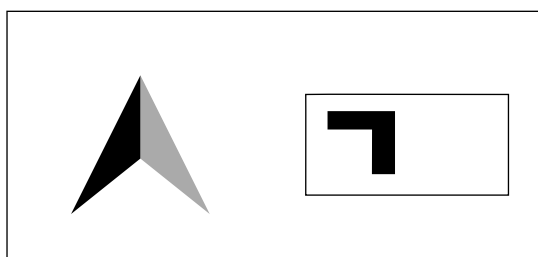
24kg		16kg			24kg
16kg	16kg				
				24kg	24kg
				16kg	16kg

Roof load: Roof A, Segment 1

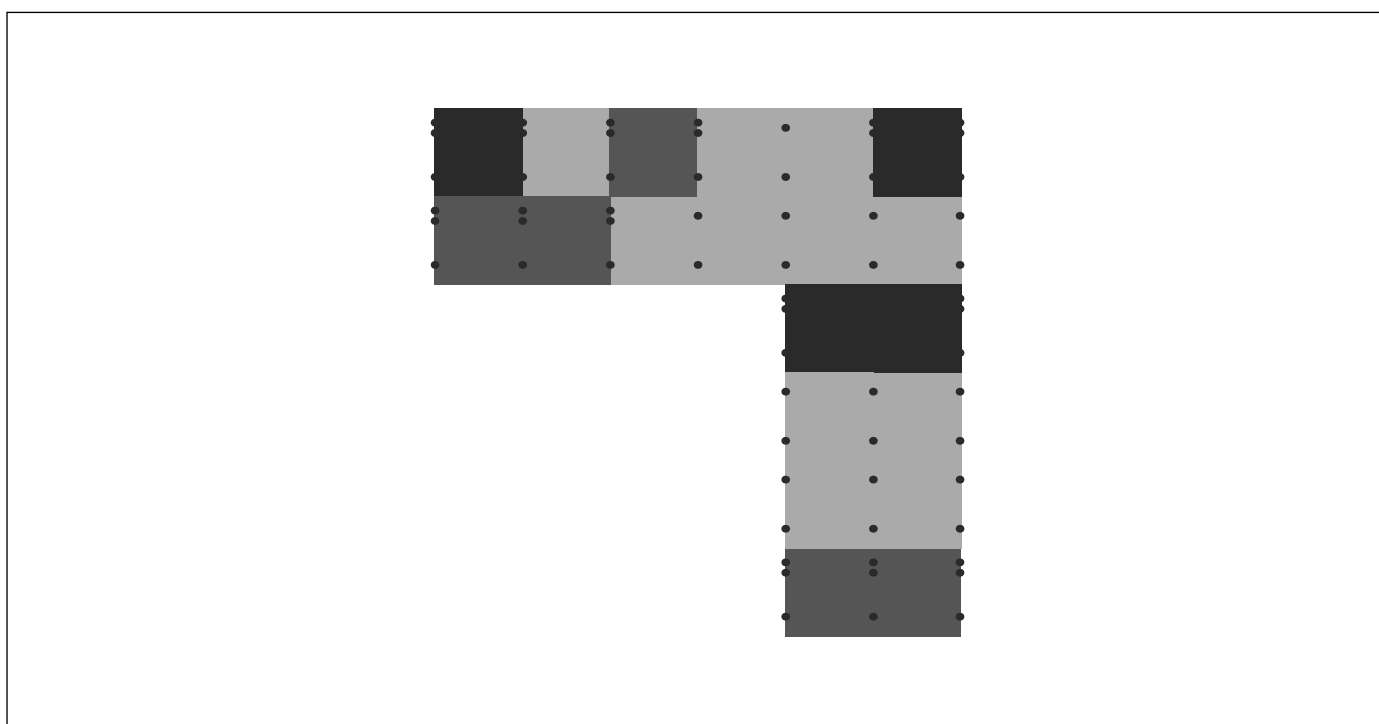
Roof load(static)

Weight panels	370 kg
Weight Flatfix fusion	151 kg
Weight Ballast	176 kg
Total weight	697 kg
System area(projected area)	57.63 m2
Average roof load over system area	12.11 kg/m2
Average point pressure (at base plate)	6.6 kPa*
Max. point pressure (at base plate)	11.9 kPa*
Min. point pressure (at base plate)	3.5 kPa*

*Irregularities in the roof can cause deviating point pressures



● Base plates ■ 8.20kg/m2 ■ 15.28kg/m2 ■ 18.08kg/m2

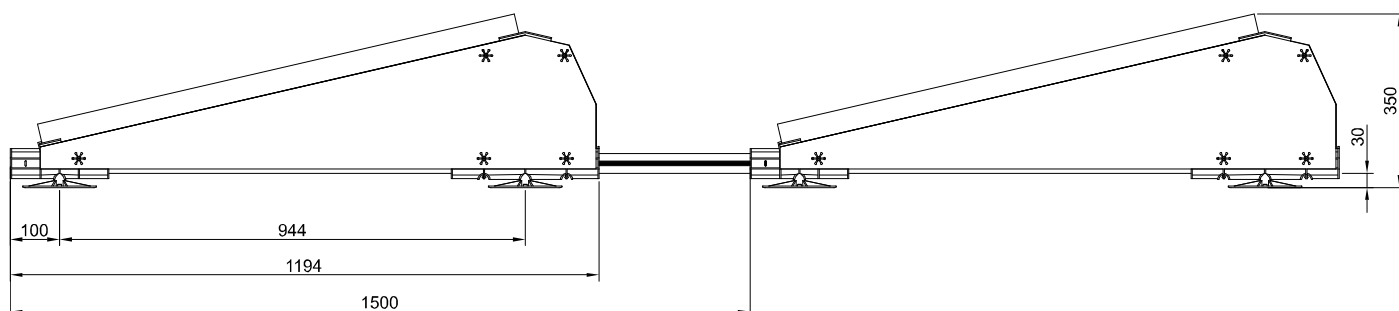


Materials: Roof A, Segment 1

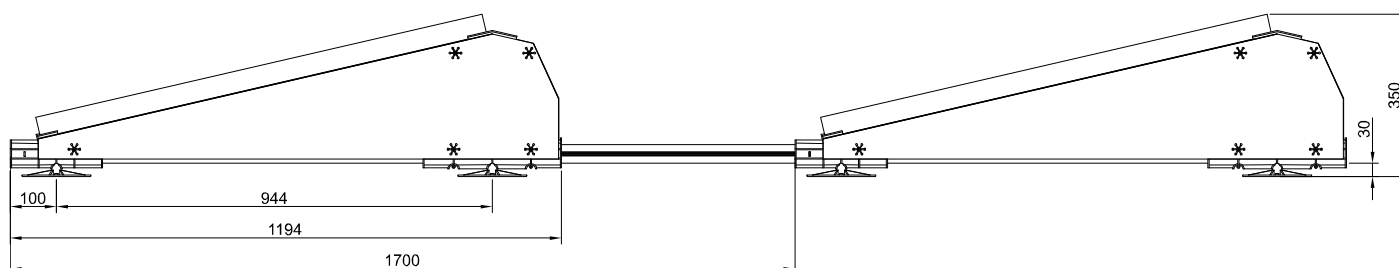
Materials

Article nr	Amount	Description
100-7012	67st	Base plate or (100-7010)
100-7021	26st	Low base
100-7030	26st	High base
100-7041	20st	Cable clip optimizer ready
100-7201	20st	Winddeflector rear 1600 (or 100-7050)
100-7204	6st	Winddeflector left (or 100-7055)
100-7205	6st	Winddeflector right (or 100-7056)
100-7202	9st	Ballast container 1600 (or 100-7060)
100-7175	19st	Base profile 750mm
100-7194	26st	Base profile 940mm
100-6519	52st	Mounting screw 6,5x19
100-6563	52st	Mounting screw 6,5x63
100-3010	24st	Self-tapping screw 6,0x25
100-3022	28st	Module clamp
100-4135	24st	Endclamp 35mm

Single setup with a row distance of 1500mm



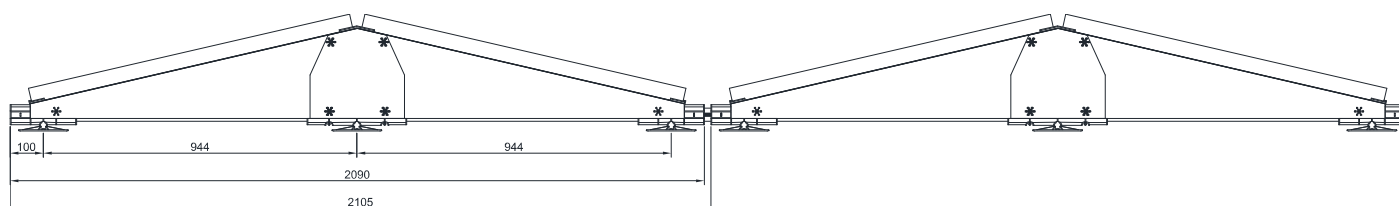
Single setup with a row distance of 1700mm



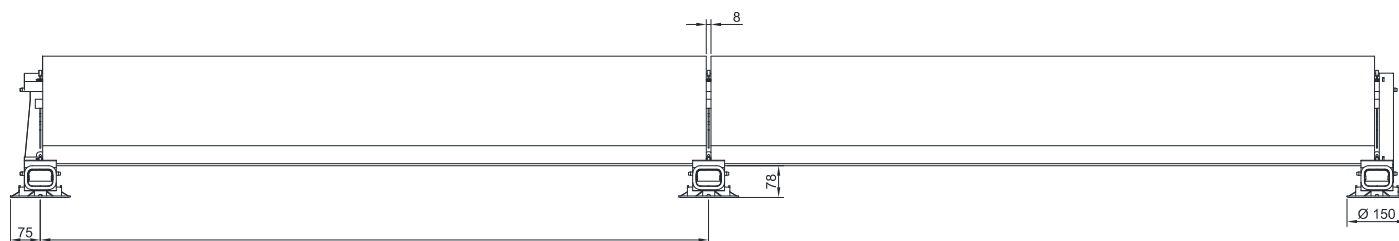
Single setup with a row distance of 1890mm



Dual setup



Back view



PROJECT SPECIFICATIONS

FLATFIX FUSION MOUNTING SYSTEM FOR FLAT ROOFS

Disclaimer: The installation of a PV system, or to an existing building, the hitherto existing building loads (eg snow / wind.) Or changing the building constructions. To avoid personal injury and / or property damage, it is necessary static calculations of the existing building to be reviewed by a qualified technician. Here one must observe the current regulations and in particular the NEN6702, NEN7250, NEN1991-1-1-4 A1 + C2 / NB. It does not check the static calculation of the building, it can in the worst case, lead to failure of the load-bearing structure of the building. Consultation with the insurer is required in the event of structural changes. Among others, the following should be considered controlled architectural and good: The occurring charges as a result of the additional weight of the complete PV system on the building. The occurring charges as a result of the changed geometry of the roof on the building. The occurring charges as a result of the dynamic wind pressure and possible accumulation of precipitation on the building. The loads occurring during installation on the building, roofing and insulation. The compatibility of the insulation and roofing material at the location of the contact points of the supporting structure of the long-term PV-system as a result of the pressure point. The compatibility of the roofing material in combination with the support structure at the location of the contact points. The effect of thermal performance of the building and the PV system on each other. The effect of any movement and vibrations of the roof and the PV system on each other. Despite the fact that the calculations are carried out carefully in the software, no rights can be derived. Prices in the software are indicative and may change due to possibly rising commodity prices. The drawing and the dimensions in the software are indicative, no rights can be derived.