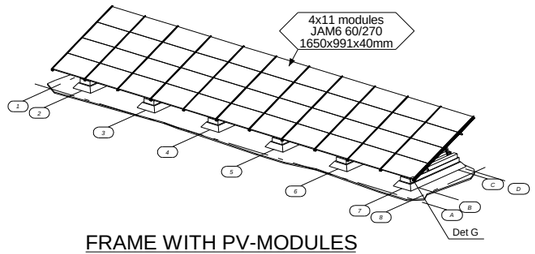
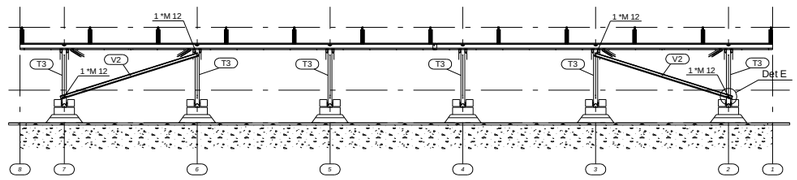
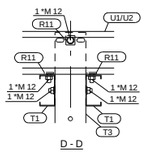
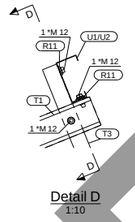


FRAME WITH PV-MODULES



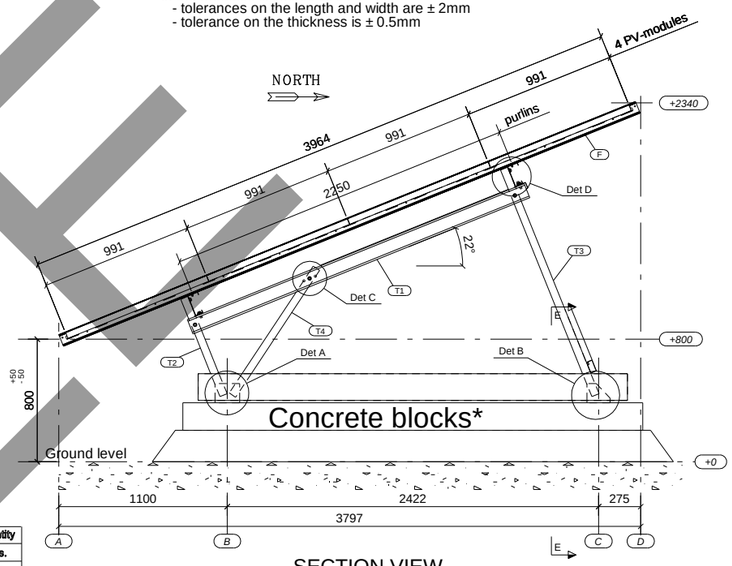
REAR VIEW





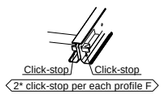
Detail D
1:10

This structure is valid for the following tolerances of the modules JAM6 60/270 :
- tolerances on the length and width are ± 2mm
- tolerance on the thickness is ± 0.5mm

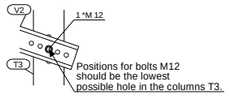


SECTION VIEW

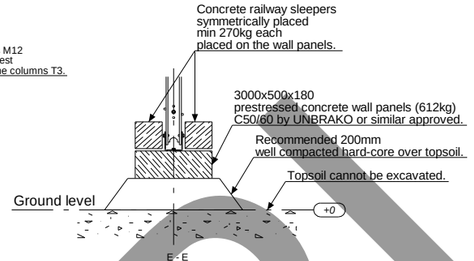
* Concrete blocks and anchors has been designed by Lyons O'Neill (see Structural Calculations No.14291) and should be delivered by SADEF customer.

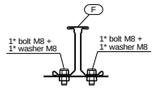


Detail G
1:10



Detail E
1:10



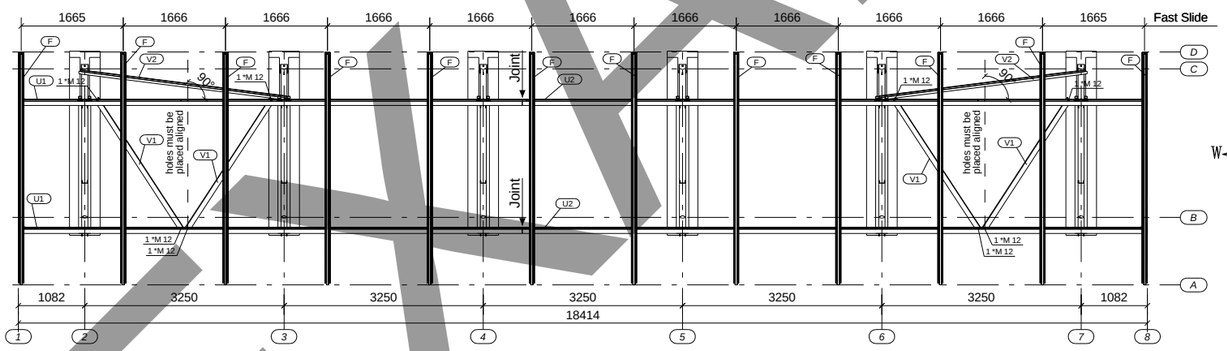


Detail F
1:5

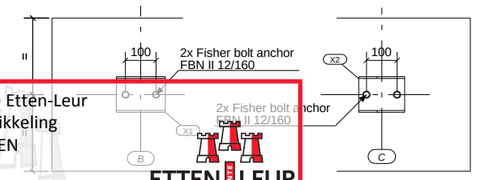
FRAME WITHOUT PV-MODULES

Joint between the purlins

Flange bolt should be placed inside the purlin and flange nut outside purlin



TOP VIEW



Detail A
1:10

Detail B
1:10

Detail C
1:10

Optimal position for bolts M12 are the middle holes in columns T2, T3, T4 and main beams T1.

LIST OF COMPONENTS & ACC

Component	Id	Name	Length	Quantity
Columns	T2	C100X50X12	685mm	6 pcs.
	T3		1593mm	6 pcs.
	T4		992mm	6 pcs.
Main beams	T1	C100X50X12	2370mm	12 pcs.
Fast slide profile	F	Fast slide FS80.100	4058mm	12 pcs.
Purlins	U1	C 20X70X140X52X20	8315mm	2 pcs.
	U2		10195mm	2 pcs.
Windbracings	V1	C80X40X12	2692mm	4 pcs.
Vertical brac.	V2	C80X40X12	3551mm	2 pcs.
Foot piece	X1	U116x125	160mm	6 pcs.
	X2		150mm	6 pcs.
Rectangular washers	R11	Rect. washer 30/30		36 pcs.
Bolts M12x25	R12	Bolt M12*25-DIN6921-HDG		126 pcs.
Nuts M12	R14	Nut M12-DIN6923-HDG		126 pcs.
Bolts M8x20	R77	Bolt M8*20-DIN912-Duplex		48 pcs.
Washer M8	R76	Washer M8-DIN125-Duplex		48 pcs.
Nut M8	R30	Piercing nut M8		48 pcs.
Click-stop	R60	FS Click Stop		24 pcs.

Gemeente Etten-Leur
Afd. Ontwikkeling
INGEKOMEN

17-04-2019

Behoort bij besluit van
Burgemeester en wethouders
van de gemeente Etten-Leur
Int. kenmerk:

2019OG0229-01

FOR CONSTRUCTION

This drawing should be used in accordance with the content of "Assembly instruction " and drawing M[00] where the positions of different tables are defined.

Wind loads according to BS-EN 1991-1-4 NA 2010:
- **Location → vb,map = 21,90m/s**
- **Distance to shoreline > 100km, height z= 2,34m**
- **Orography factor co=1.0**
- **qpS = 0,465 kN/m2 (southern wind)**
- **qpN = 0,385 kN/m2 (northern wind)**
- **Wind pressure coefficients according to specific wind tunnel expertise report.**

Snow load according to BS-EN 1991-1-3:NA 2003:
- **Location → snow zone 3**
- **Roof shape coefficient for 22°→ =0.8**
- **Altitude a=70m a.m.s.l.**
- **sk = 0,443 kN/m2**

Fixation of the solar panels to the SADEF frame should be done according to the recommendations of the supplier of the panels.
In case of fixation with clamps: the solar panels should be placed in such a way that the maximum distance between clamp and panel is 2mm, and between 2 panels the maximum distance is 21mm.

The assembly tolerance can be bigger than those mentioned in the document 'Special attention to the foundations', as long as all bolts are placed in the holes foreseen by SADEF, and it is acceptable by the SADEF customer.

When tightening bolt and nut, the torque must always be applied to the nut (never to the bolt) .
In case of using bolts M12x80 in combination with tubes R10 there should be applied a prevailing torque of only 25Nm.

In case of structures with rammed studs - during ramming of the stud, the applied force by the ramming machine should be chosen in such a way that the stud remains intact. After ramming, the top of the rammed or driven studs should be painted with Zinga paint minimum 100 microns zinc layer or similar in order to repair the eventually damaged corrosion protection.

Standard irregularity in terrain flatness in East-West direction is +/-5cm per table. If irregularity (between the 2 ends of table) is more than 5cm, the SADEF customer clearly has to specify the maximum irregularity before sadef starts the design.
The layout of the solar tables on the terrain should be done in such a way, that there is always a minimal distance of 10 cm between finished adjacent tables. In case of a terrain with more than 10% slope, the minimal distance (in cm) should be equal to the slope of the terrain (in %). E.g. 20% terrain slope --> 20cm minimal distance between tables.

The chosen surface treatment of the steel frame is supposing no significant water accumulation on the terrain surface. It is considered that the ground will absorb all rain water.
Eventual consequences on the steel structure due to water accumulation or underground waterstream will be the full responsibility of the SADEF customer.

Sadef recommends never to use copper in direct contact with galvanized steel. Grounding cables shall always have the same electrochemical potential as the galvanized steel. If a metal with higher or lower potential is used for grounding cables, eventual corrosion due to it will be the full responsibility of the Sadef customer.

The content of the documents "Design data", and "Special conditions for components in solar frames (encl. A)" in enclosure is to be fully taken into account !

This structure is valid for maximal terrain slope in E-W / N-S direction: 5% / 5%

plotted: 13.05.2015

Concept drawing
STRUCTURAL DRAWING

This drawing must be printed on paper size not less than A3.

REV. NO.	REV.	REVISION DESCRIPTION	REV. DATE
1	A	Concept drawing	2015-05-13

SteelGrade : S390G+Z Unless different mentioned | Welding : 4 Unless different mentioned
BoltGrade : 8.8. Unless different mentioned | Projection :

Project Reference: Concept drawing
Subject: M[05] Table on foundation
Client:
Object: Solar Table
Project Start Date:
Scale: 1:10
Drawn by:
Checked by:

PROJECT NUMBER:
DRAWING NO. + REVISION NO.: M[05] - A