

# Constructional Data Form (CDF) for Solar Assemblies

CDF31540007.001



This Constructional Data Form (CDF) is applicable for Assemblies (e.g. Racking and Ground-Bonding Devices, Trackers, Combiner Box). *If greater than 75% of component within model/type is different, then it should be separated into multiple CDFs.*

The components in type bold with double asterisks (\*\*) only apply to those being submitted as part of an alternate construction design. These additional rows have been added as placeholders for subsequent design variations. These can be left blank until they are applicable.

A manufacturer can have multiple types of components listed so long as the combination has been previously certified or it is in the process of being certified through an alternate construction retest.

If this project is for an Alternate Construction of an existing product/system, please start from the previously published CDF and identify proposed product/system component, parts, and material differences in the *List of components/subassemblies per Unit.*

## Design Revision(s) (if applicable)

Revision No. (Project No.)	Revision Details	Model Designation	Reference Report Number	Certificate Number	Certificate Date
0 (IRF141027, IRF180309)	Baseline	IRFTS Easy Roof	31540007.001	Pending	Pending

## License Holder Information:

License holder (full address)	IRFTS 26 rue du 35 ieme régiment d'Aviation 69500 BRON FRANCE	
Production factory, warehouse, or installation site #1 (full address)	CHRIS FRANCE PLASTIQUE 31 cours de Verdun 01100 Oxyonnax France	
Production factory, warehouse, or installation site #2 (full address)	Ulusan 3. Org San Bol T.Ziyaeddin Cad No.20, Selcu, Konya Turkey	
Production factory, warehouse, or installation site #3 (full address)	Storage and Logistic of complete System : Groupe MAZET 5 rue Marais 01100 Arbent France	
Type of product	PV Mounting System – Roof Mount	
Trademark	IRFTS Easy Mount Evolution L-1	
Authority name (Client POC)	Laurent Coudert	
Telephone / Email	Email : laurent.coudert@irfts.com	Phone : +33 6 19 79 16 31
Applicable standard(s)	<input type="checkbox"/> UL 1741	<input checked="" type="checkbox"/> UL 2703
	<input type="checkbox"/> IEC/UL 61010-1	<input type="checkbox"/> UL SU 3703
	<input type="checkbox"/> UL 508A	<input type="checkbox"/> UL 508C
	<input type="checkbox"/> Others: UL 1703, TBD?	

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**Product Information: (please check only one box)**

- The design being submitted has not been previously certified.  
 The design being submitted is an alternative construction for a design already certified.

Design submitted for certification or alternate construction submitted for certification			
Type name or model number	Easy Mount Evolution L-1 PV Mounting System		
Rated input voltage [V]	(N/A for UL Subject 2703)		
Rated input current [A]	(N/A for UL Subject 2703)		
Rated power [W]	(N/A for UL Subject 2703)		
Maximum system voltage [V]	1000V		
Over-current protection rating [A]	30A		
Dimensions (l x w x h) [mm]	1956 x 1049 x 50		
Product area [m <sup>2</sup> ] (max assembled unit)	2.42m <sup>2</sup> for one module with Easy Roof frame and side flashings		
Software version (if appropriate)	(N/A for UL Subject 2703)		
Fasteners Clamp Load (if appropriate)	(Calculations required per UL 2703, Section 6.5) All calculations in report.		
Fasteners Slip Factor (if appropriate)	(Calculations required per UL 2703, Section 6.6) All calculations in report.		
Threaded Rod Stress Area (if appropriate)	(Calculations required per UL 2703, Section 6.7) N/A, clamps are used		
Mechanical Design Load (Downward/Upward/Downslope) [psf]	Max Design Load Down/Pos(Snow)  1 Mid-bracket = 3271 [lbs] 1 End-bracket = 674 [lbs]  See Appendix C of TJCAA Project No. 312006 for design load tables	Max Design Load Up/Neg(Wind)  1 Mid-bracket = 672 [lbs] in Plywood  1 End-bracket = 213 [lbs] in DF No. 2  See Appendix C of TJCAA Project No. 312006 for design load tables	Max Design Load Downslope (Optional)  1 Mid-bracket = 251 [lbs]  1 End-bracket = 118 [lbs] in Plywood  See Appendix C of TJCAA Project No. 312006 for design load tables
System Module Load Rating (Size/Orientation/Number)	Max Size Module = 1685mm x 1001mm x 50mm (60-cell module)	Landscape/Portrait = Portrait	1 PV Module per Easy Roof frame
Dielectric Voltage Withstand Test (Production Test UL 3703)	(N/A for UL Subject 2703; Calculations required per UL 3703, Section 62; Acceptance Test Procedure Verification)		
Platform Movement With No Power (Installation Test UL 3703)	(N/A for UL Subject 2703; Requirement per UL 3703, Section 63; Installation Manual/Commissioning Test Verification)		
Other specifications	Each module must have 4 ER mounts (mid-brackets and/or end-brackets)		
Post-testing Sample Disposition	<input checked="" type="checkbox"/> Dispose per lab policies; <input type="checkbox"/> Return to client; save shipping materials		
Final Shipping/Construction Approach	<ul style="list-style-type: none"> <li>Select intended method below for final distribution to installation site; required for audit considerations.</li> </ul>		
<input type="checkbox"/> Primary safety critical components manufactured and shipped from one factory location to each installation site.			
<input type="checkbox"/> Primary safety critical components manufactured and shipped from one factory location to authorized location for storage/shipment.			
<input type="checkbox"/> Safety critical components (including attachment hardware) drop-shipped to each installation site from multiple manufacturers.			
<input checked="" type="checkbox"/> Other method: Primary safety critical components manufactured by multiple factories, shipped to one factory location for inspection and kitting, shipped to authorized location for storage/shipment to installation site.			

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**Description of "Unit":** Polymeric base structure for mounting PV modules on a pitched roof.

List of components/subassemblies per Unit: Note Alternate Constructions possible based on pitch of roof and PV module frame depth.

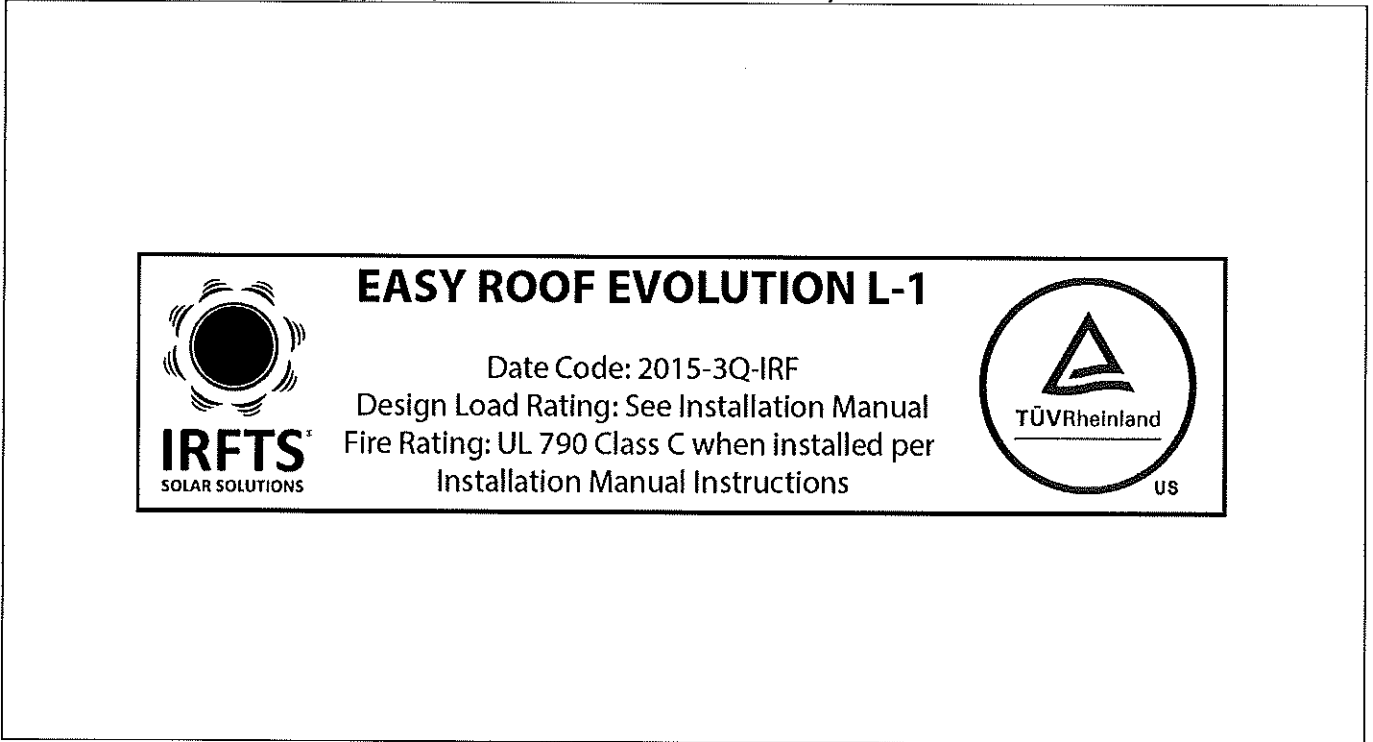
	Description	Manufacturer	Type / model	Technical Data / Ratings / Materials	Notes / Standard / Certification/Listing (if applicable)
001	Easy Roof Frame L-1 Evolution - Portrait	CHRIS FRANCE PLASTIQUE	P001LV41N01	Polypropylene	Not used for structural support or electrical insulation/isolation.
002	Left flashing L-1 Evolution	CHRIS FRANCE PLASTIQUE	P002LV40N01	Polypropylene	Not used for structural support or electrical insulation/isolation.
003	Right flashing L-1 Evolution	CHRIS FRANCE PLASTIQUE	P003LV40N01	Polypropylene	Not used for structural support or electrical insulation/isolation.
004	End Clamp - Mill	Ulusan	A001V40	ALUMINUM 6063	Evaluated in this application.
005a	Small Mid-Clamp	Ulusan	A002V41	ALUMINUM 6063	Evaluated in this application; for use with module width <39"
005b	Large Mid-clamp	Ulusan	A009V40	ALUMINUM 6063	Evaluated in this application; for use with module width >39"
006	Mid-Bracket	Ulusan	A004V40	ALUMINUM 6063	Evaluated in the application
007	End-bracket - Mill	Ulusan	A003V40	ALUMINUM 6063	Evaluated in the application
008	M6x40mm Wood Screw, Panhead, T-25 Torx Drive - A2, SS	Schäfer & Peter	V003V02	Stainless Steel	Evaluated in the application
009	M5x35mm Machine Screw, Hex Socket - A2, SS	Schäfer & Peter	V001V02	Stainless Steel	Evaluated in the application
010a	M6x40mm Machine Screw - A2, SS	Schäfer & Peter	V013V02	Stainless Steel	Evaluated in this application; for use with modules 40-50 mm thick
010b	M6X30mm Machine Screw - A2 SS	Schäfer & Peter	V012V02	Stainless Steel	Evaluated in this application; for use with modules 30-40 mm thick
011a	Small Mid Clamp - Black Anodized	Ulusan	A002V41N	Aluminum 6063	Evaluated in this application; for module width < 39" Black Anodized
011b	Large Mid Clamp - Mill	Ulusan	A009V40N	Aluminum 6063	Evaluated in this application; for module width > 39" Black Anodized
012	End Clamp - Black Anodized	Ulusan	A001V40N	Aluminum 6063	Evaluated in the application
013	End-bracket - Black Anodized	Ulusan	A003V40N	Aluminum 6063	Evaluated in the application
014	Lateral Freeze & Wind-driven Rain Guard 30/15	ABcaoutchouc	F001V40	Rubber	Not used for structural support or electrical insulation/isolation; used for wind-driven rain and freeze

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Copy of proposed marking plate (to be submitted for certification):



Signature Page:

I hereby affirm that the information provided on this form is accurate and complete. I will inform TÜV Rheinland PTL immediately if there are any changes from the responses provided in this form.

  
Laurent Coudeker

**I.R.F.T.S.**  
26, rue du 35<sup>ème</sup> Régiment d'Aviation  
69500 BRON  
Tél. 04 78 38 83 10 - Fax 04 78 38 96 87  
Siret : 510 335 128 00011

28 January 2019

Signature of authorized representative

Date

Signature of authorized representative  
Sponsor (if different from manufacturer)

Date

Signature of TÜV Rheinland PTL representative

Date