

# Summary Classification Report No. 22640J

#### PRODUCT

Longi : LR5-54y-xxxM {y = HPB ; HIB ; HIH ; HPH ; HTH ; HTB}

## SPONSOR

**GSE** Integration

## **PRODUCT DETAILS**

GSE Integration solar panel system. The system is mounted on a wooden batten and framework structure. The solar panel clicks into the portrait GSE frame. The frame is mechanically attached through fixation points that lay within "attachment zones" or "highest zones". Around this structure ridge flashing pieces/brackets are attached using pop rivets and flexalu band. This entire construction is then surrounded by roof tiles. Furthermore, underneath the wooden batten, there is a PP-foil, used as vapour barrier.

For a fully detailed overview of the product details see annex

## **FIELD OF APPLICATION**

• Range of pitches: > 10°

CLASSIFICATION

Broof (T4)

#### **STANDARDS**

Test standard: CEN/TS 1187:2012-T4 Classification standard: EN 13501-1:2016

DEVIATIONS OF THE TEST STANDARD:

On the following points the test procedure deviated from the prescriptions of the standard: The requirement to conditioning specimens to clause 4 of EN 13238:2010, as detailed in CEN/TS 1187:2012 section 7.5, was not met. This report is not issued under BELAC accreditation.

SIGNED	APPROVED

#### For and on behalf of WFRGENT nv

This summary of a classification report has been drafted according to EGOLF agreement EGA 08rev2:2013 "Application note: clause 5.10 [5.10/1] – Types of test reports used in fire testing". Whilst the test data and classification provided within this short form report was obtained in a test conducted fully in accordance with the standards CEN/TS 1187:2012, EN13501-5, the presentation of the results in this short form report may not satisfy the requirements of those standards and EN ISO/IEC 17025:2005/AC:2006. The presentation of the results in this manner is made by agreement with the sponsor and use of the information herein for product assessment, approval or certification purposes will be restricted.

The full classification report No. 22640H is available at GSE

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	Annex A:	Product	details
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COMPONENTS	
1) VAPOUR CONTROL LAYER	
Material	Three Polypropylene layers
Thickness (mm)	0,65
Flame retardants	No
Surface weight (g/m <sup>2</sup> )	165
Fixing method	Mechanically with screws
2) WOODEN BATTENS	
1	Vollow/light brown
Colour Thiskness (mm)	Yellow/light brown
Thickness (mm) Fixation	75 Maabaniaally
	Mechanically
3) GSE FRAME PORTRAIT Material	Polypropylene compound
Manufacturer / Supplier	GSE Integration
Thickness (mm)	35 Mashaniasilu
Fixing method	Mechanically
Type and amount of fixing (nature screws/pressure equalising plate,)	Using screws outside outflow zones
Reaction to fire according to EN 13501-1	E according to classification report 21331D
4) RIDGE FLASHING	
Material	Ridge flashing pieces made out of aluminium 3005 H44
Manufacturer	SIKA Profili
Supplier	GSE Intégration
Surface weight (g/m <sup>2</sup> )	3100 g/m <sup>2</sup>
Flame retardants	None
Fixation	<ul> <li>Pop rivets to join the ridge flashings and edge brackets</li> <li>Attachment hooks (2 per piece) to attach all flashings to the frame</li> </ul>
5) FLEXALU	
Material	Pleated aluminium band coated on both sides with butyl tape
Total Thickness (mm)	
Aluminium (mm)	0.15
Valéron (mm)	
Butyl tape (mm)	
Fixing method	Mechanically with screws
Classification reaction to fire according	
to EN13501	E according to classification report 21331C
6) SOLAR PANEL	
Material	Photovoltaic cell composed out of silicon + glass + backsheet
Trade name	Longi : LR5-54y-xxxM {y = HPB ; HIB ; HIH ; HPH ; HTH ; HTB}
Manufacturer/Supplier	LONGI Green Energy Technology Co., Ltd.
Thickness (mm)	30
Length (mm)	1722
Width (mm)	1134
· · · · · · · · · · · · · · · · · · ·	355
Density (kg/m <sup>3</sup> )	
Fixing method	Loose laid and clicked into GSE frame
7) ROOF TILES	Clay tiles
Material	Clay tiles
Material Length (mm)	408
Material	·