

BUILDING-INTEGRATED  
PHOTOVOLTAIC

# GSE IN-ROOF SYSTEM™

In-Roof Integrated PV system for traditional Photovoltaic Panels

**Simple, Quick, Aesthetic,  
Lightweight,  
Waterproof  
and Cost-Competitive**

More than  
4 000 000 m<sup>2</sup>  
installed over  
10 years



[www.gseintegration.com](http://www.gseintegration.com)

# GSE IN-ROOF SYSTEM™

## BENEFITS

- Economic : the most competitive system for roof renovations and new constructions.
- Easy to install : 3 to 5 kW installed in 6 hours.
- Completely waterproof : ensures complete watertightness of the PV system and the roof.
- The system may be installed in portrait or landscape format.
- Flexible : achieve any desired configuration type (U-Shape, pyramid, etc...).
- Compatible with roof windows.
- Impact resistance.
- Very important mechanical resistance :
  - Downward pressure : **5400 Pa** (IEC 61215)
  - Upward pressure : up to **5500 Pa** (NF EN 12179)

## PORTRAIT:



**15 available references\***  
Module width : 798 to 1060 mm  
Module length : 1535 to 1750 mm

## LANDSCAPE:



**18 available references\***  
Module width : 768 to 1122 mm  
Module length : 1550 to 1740 mm

\* Detailed list available on our website :  
[www.gseintegration.com/media.html](http://www.gseintegration.com/media.html)

" Eurocode design values : Snow : 1800 Pa Wind : 1700 Pa **MCS** maximum design wind uplift resistance : 1.9 kPa "

## TECHNICAL SPECIFICATIONS



**All types**  
Roof covering



**Slope**  
12° to 50°



**Portrait & Landscape**



**Color**  
Alu / Black



**Weight**  
2 to 3 kg/m<sup>2</sup>



**Temperature range**  
-30°C to 100°C



**Material**  
PP - Aluminum -  
Stainless steel  
(100% Recyclable)

## COMPATIBILITY WITH THE NEW MODULE TECHNOLOGIES:



**Half  
Cells**



**Shingled  
Cells**



**New  
Size of Wafer**



**Splitted Junction  
Box**



**Support  
Bars**



**Frame Thickness**  
From 30 to 50 mm



**AC  
Module**

## AVAILABLE FLASHINGS :

- **Kit universal**
- **Kit v.A-1** : For traditional slates
- **Kit v.TS-1** : For curved tiles
- **Kit v.TN-1 (2020)** : For flat interlocking tiles
- **Kit v.TP-1 (2020)** : For traditional flat tiles

## COMPATIBILITY WITH ROOF WINDOWS :



## OUR TESTS & CERTIFICATIONS

**CHUBB**

- **Liability insurance trading and product** Liability insurance - CHUBB / **10 years product guarantee insurance** : EPERS



- **CCFAT-CSTB** : ATEC N°21/16-57 V3 - « In Roof System » V. TS-1: curved tiles, « In Roof System » V. A-1: slates



- **FIRE TESTS EXPOSURE** : Compliance BROOF T1, T3, T4



- **ALPES CONTROLES** : ETN 010T170F Many modules approved (list available on our website)



- **BBA** : MCS 012 certificate no. "MCS BBA 0156" - compatible with more than 30 PV panels - maximum wind load : 1.9 kN/m<sup>2</sup>



- **DIBt** : Allgemeine bauaufsichtlichen Zulassung no. Z-14.4-817

CONTACT

**GSE**Intégration  
LEADER EUROPEEN DE L'INTEGRATION PHOTOVOLTAIQUE

GSE INTEGRATION

155-159 rue du Dr Bauer. 93400 SAINT-OUEN +33 1 70 32 08 00  
contact@gseintegration.com - [www.gseintegration.com](http://www.gseintegration.com)