

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 m²
installed over
10 years



CHUBB®

warringtonfire
Proud to be part of the fireteam



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

" 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/m²



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 Universel**
- **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 year 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 CONTROLE** : 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/m²



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

CONTACT

GSEIntégration
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