

BUILDING-INTEGRATED
PHOTOVOLTAIC

GSE IN-ROOF SYSTEM™

BIPV system for traditional photovoltaic panels

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

More than
4 500 000 m²
installed over
10 years



CHUBB®



www.gseintegration.com

GSE IN-ROOF SYSTEM™

BENEFITS

- Economic: the most competitive system for roof renovations and new constructions.
- Easy to install: 10 to 16 panels 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)

" Eurocode design values: Snow: 1800 Pa, Wind: 1700 Pa "

TECHNICAL SPECIFICATIONS



All types
Roof covering



Slope
12° to 60°



Portrait & Landscape



Color
Alu / Black



Weight
2 to 3 kg/m²

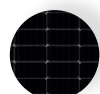


Temperature range
-30°C to 100°C



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 universal**
- **Kit v.A-2:** for traditional slates
- **Kit v.TS-2:** 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 V4 - « In Roof System »



■ **FIRE TESTS EXPOSURE:** Compliance BROOF T1, T2 (in progress), 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: 2.71 kN/m²



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

CONTACT

GSE Integration
EUROPEAN LEADER IN PHOTOVOLTAIC INTEGRATION SYSTEMS

GSE INTEGRATION

155-159 rue du Dr Bauer. 93400 SAINT-OUEN +33 1 70 32 08 00
contact@gseintegration.com - www.gseintegration.com