

# GSE IN-ROOF SYSTEM

BIPV system for photovoltaic panels

## Installation guide



#### V 2.0

#### 1 Calculation of PV array dimensions



 $Hc (mm) = (Height Ref. + graduation) \times nb.rows + 310$  $Wc(mm) = (Width Ref. + 36.5) \times nb. columns + 310$ 

Height Ref. / Width Ref. : depends on selected frame (see table below) Graduation : depends on the length of the module (Height of the module – Height Ref of the GSE frame)



Wc

	GSE frames - PORTRAIT																	
Height Ref	1580	1575	1575	1575	1640	1640	<b>1686</b>	1710	1710	1710	1710	1710	1710	1710	1710	1710	1710	1710
Width Ref	808	1046	1053	1082	992	1001	1016	995	1000	1005	1010	1020	1025	1030	1040	1045	1050	1055

	GSE frames - LANDSCAPE																				
Height Ref	1082	1082	808	<b>992</b>	<b>992</b>	<b>992</b>	<b>992</b>	<b>992</b>	<b>992</b>	<b>992*</b>	<b>992*</b>	1020	1020	1020	1020	1020	1020	1020	1020	1020	<b>1020</b>
Width Ref	1559	1575	1580	1640	1650	1660	1670	1675	1680	1686	1700	1665	1675	1680	1685	1690	1695	1700	1705	1720	1740

#### Support battens of the mounting system



The sections of the support battens are determined according to climatic loads. Use roof battens only if the section is suitable to support climatic loads and if they are positionned according to the GSE battening plan (refer to the online documents)

#### **Recomended batten section** :27x100 (use minimum 25x50) For other dimensions of sections, refer to the paragraphs 2.3.2 and 2.4.2 of the installation manual.

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