PHOTOVOLTAIC

GSE IN-ROOF SYSTEM™

In-Roof Integrated PV system for traditional Photovoltaic Panels

Simple, Quick, Aesthetic, Lightweight, Waterproof and Inexpensive

CERTIFICATIONS AND INSURANCE COVER

CEIAB 2012

MCS

BBA CERTIFICATE BBA 0156

CSTB le futur en construction

certisolis TEST - CERTIFICATION PHOTOVOLTAÏQUE

MADE IN FRANCE

CHUBB

CC FAT AVIS TECHNIQUE

ETN ENQUETE DE TECHNIQUES NOUVELLES ALPES CONTROLES BT130003 / MARS 2014 - MARS 2017

V 2.0

www.gseintegration.com

Contents

GSE Intégration

The Groupe Solution Energie

ABOUT US...

The Group has managed more than 10,000 photovoltaic installations in France and has considerable expertise in the residential sector. We have now developed an integration system that meets all the requirements of installation technicians, distributors and end users.
The GSE Integration system is now approved by several dozen installation technicians and distributors. Through their confidence, more than 1200 systems are currently being installed every month, in France.

GROUPE SOLUTION ENERGIE KEY STATISTICS

2014 consolidated turnover	Number of employees	Year company formed
45 M€	300	2008

CERTIFICATIONS

Chambres de Métiers et de l'Artisanat – Charte Qualité – L'engagement du professionnel, la satisfaction du client – confiance cap ACCUEIL/CONSEIL 2015 www.chartequalite-artisanat.com

RECONNU GRENELLE ENVIRONNEMENT QualiPac 2015

RECONNU GRENELLE ENVIRONNEMENT QualiPv 2015

RECONNU GRENELLE ENVIRONNEMENT QualiSol 2015

enerGaïa 2012 TROPHÉES INNOVATION

The Innovations trophies are awarded each year at the **EnerGaïa show.** They reward the best new developments in the field of renewable energy and building applications. The Groupe Solution Énergie won a prize at the 2012 show for its **“Pack Eco Plus LED”** project.

Certifications & Qualifications

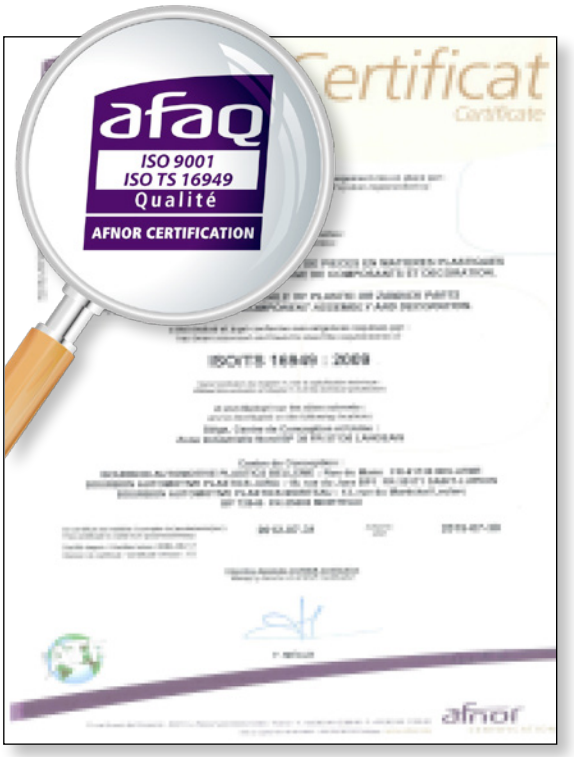
ISO CERTIFICATIONS

The Groupe Solution Energie has selected only French companies for the sourcing of the manufacturing process, in order to have all the necessary certifications and qualifications :

GSE PLATES

The GSE plate production plants are located in France and are certified :
ISO TS 16949 et ISO 9001.

2012 consolidated turnover	Number of employees	Year formed
413 M€	+2500	1963



GSE EDGE JOINERS AND MOUNTINGS

The GSE kit edge joiner and mountings production plants are located in France and certified :
ISO 9001.

2011 consolidated turnover	Number of employees	Year formed
34 M€	250	1994

MATERIALS

POLYPROPYLENE PLATES

Polypropylene (PP) : is a highly polyvalent polymer that is used as both thermo-plastic and fibre. It is very easily coloured and doesn't absorb water. It is much used for moulded automotive equipment (bumpers, dashboards, interior finishing), for garden furniture and also for manufacturing tanks.
Polypropylene is also used to manufacture food containers that can be machine washed, as it doesn't melt below 160°C. PP now has a very broad range of applications, as it is chemically stable, excellent for preserving hygiene, is not subject to corrosion and can even be machined.

ALUMINIUM ALLOY EDGE JOINERS

Aluminium alloy (AL) : The main advantages of aluminium alloy are its light weight, its excellent resistance to corrosion, its flexibility (easy to work if necessary, for example it can easily be drilled, folded or cut, etc.), and it can be recycled.
Furthermore, black pre-lacquered aluminium alloy offers enhanced corrosion resistance in corrosive atmospheres and the coating is extremely durable when subjected to UV radiation.

STAINLESS MOUNTINGS

Stainless steel (IN) : The raw material used for the GSE Integration mounting system is stainless steel grade 304L C1000. Stainless steel 304L has great mechanical strength, is very light and offers excellent corrosion resistance (no surface treatment required).
In addition, stainless steel is electrically and chemically neutral in relation to most other roofing materials (no corrosion cell).
Compared with aluminium alloy, stainless steel also offers the advantage of not breaking when stressed beyond its elastic limit (it will distort before breaking), while aluminium alloy suddenly fails without prior warning.
Grade C1000 is even stronger than standard grade stainless steel.

AVIS TECHNIQUE N°21/16-57 FAVOURABLE OPINION

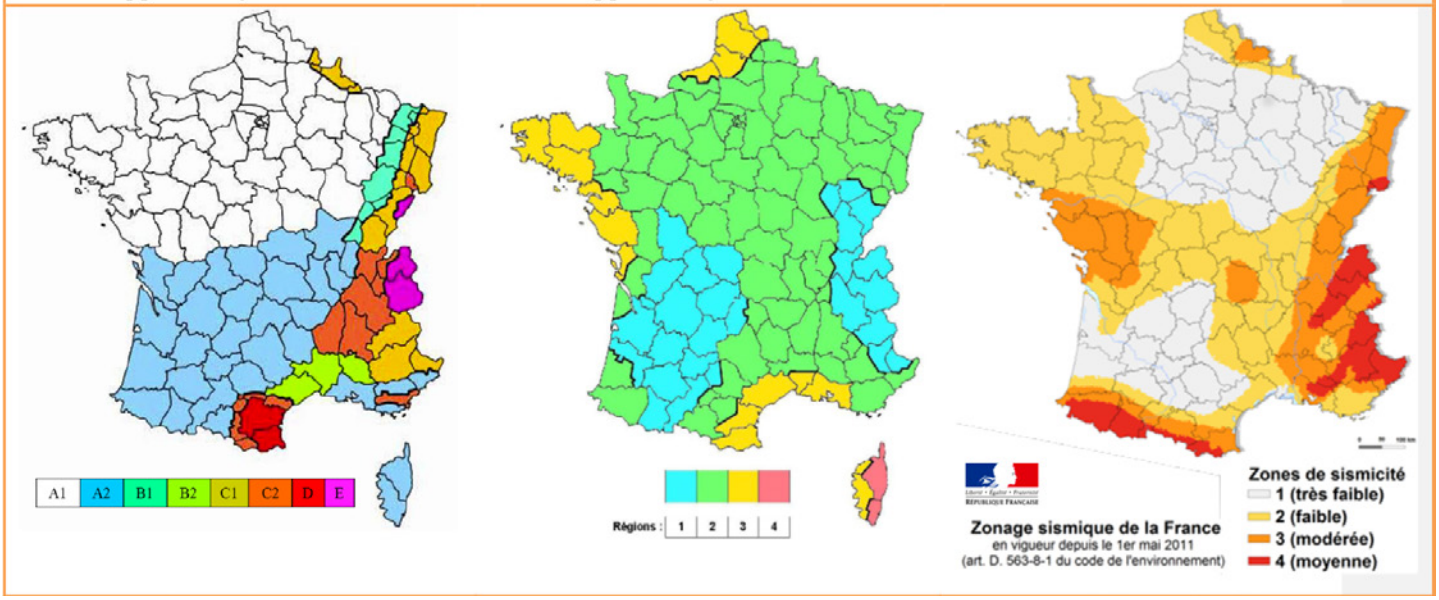
TECHNICAL ANALYSIS FROM THE CSTB

1/ SCOPE OF USE

- Applicable in portrait format for roof pitches from 13.5° to 45° (24% to 100%)
- Suitable on center field of roofs with curved and interlocking tiles (Clay or concrete)

2/ CLIMATE STABILITY

SNOW (EN 1991-1-3)	WIND (EN 1991-1-4)	SEISMIC (EN 1998-1)
Specific Load ≤ 1800 Pa Applicability => Zone E	Specific Load ≤1300 Pa Applicability => Zone 4	All kind of building Seismic Zone 4



VALID FOR ALL THE EUROPEAN FRENCH TERRITORY

3/ WATERTIGHTNESS

"Owing to the global design, the installation conditions described in the technical file and the experience feedbacks, ***the watertightness of the system can be considered satisfactory****"*

4/ CONCLUSIONS OF THE "GROUPE SPECIALISE N° 21"

OVERALL ASSESSMENT :
The use of the process in the scope defined in the technical document has been favourably considered.

VALIDITY :
Until 31st July 2019

MCS 012 - BBA Report

CERTIFICAT NO: MCS BBA 0156 - CONFIRMED

BBA TECHNICAL ANALYSIS

GSE INTEGRATION system's components :
GSE INTEGRATION plate
Wedges
Lateral flashings
EPDM Joint
Clamps

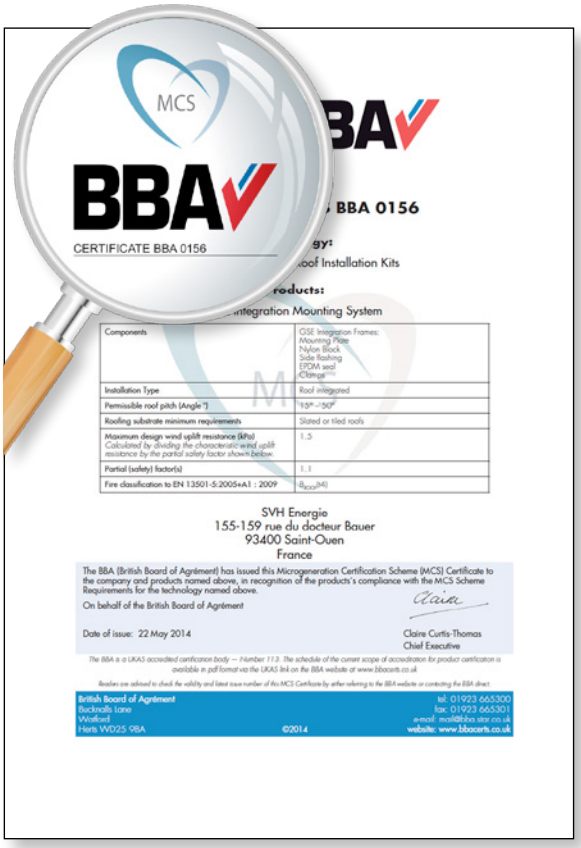
Type of installation :
Roof integration

Roof slope :
15° to 50°

Elements of covering :
Tiles or slates

Resistance to maximal wind uplift (kPa) : 1,5
calculated by dividing the resistance characteristics to wind uplift by the partial indicated security's coefficient :
1,1

Fire classification :
Broof T4



ETN Report Alpes Contrôles

ETN REPORT N° BT130003 – FAVOURABLE OPINION

1/ SCOPE OF USE

- Useable all over France in the 5 different “wind zones”
- Suitable for all kind of structure
- Applicable for roof pitches from 12° to 50° (21% to 119%)
- Available in Portrait and Landscape

3/ ROOF TYPES

- Suitable as a partial roofing for different kind of ventilated roof associated with small roofing elements, like tiles (flat, curved or interlocking) and slates
- Traditional wooden framework composed of purlins, rafters and battens, according to the building codes

3/ CLIMATE STABILITY

PORTRAIT AND LANDSCAPE		
Upward loads (Wind)	Extreme wind actions resistance (Pa) (1)	1860 Pa w/ 4 clamps 2400 Pa w/ 6 clamps
Downward loads (Snow)	Extreme snow loads resistance (Pa) (1)	5400 Pa

(1) Nota : Those values have been calculated without taking into account the resistance of the wooden structure that must be dimensioned according to the Eurocode.

ALPES CONTROLES
ETN
N°BT130003 MARS 2014 MARS 2017

Under these conditions, an ETN is awarded for the GSE integration process.

Warringtonfire Report DD CEN/TS 1187

FIRE EXPOSURE TESTS BROOF T1, T3, T4 APPROVED

The WarringtonFire laboratories based in Belgium and in England have validated the GSE INTEGRATION system's fireproofing.
The system passed all the current tests according to the different necessary configurations for the French, Belgian, German, Dutch and English construction.

DETAILS OF THE DIFFERENT TESTS

1/ BROOF T1 : German, Dutch, and Belgian Standard

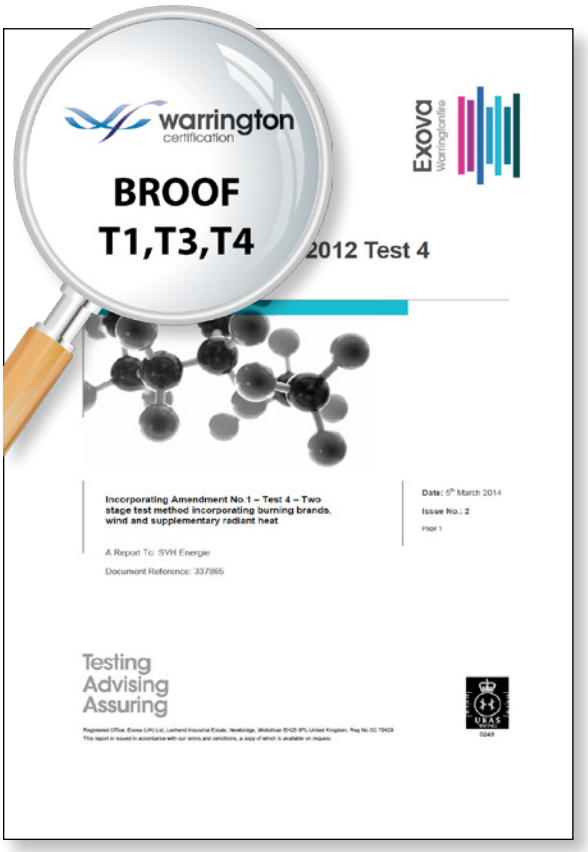
- 4 x models with different configurations
- Test time until the end of combustion of the firebrands, wood fibers , etc.
- Use of burning firebrands, ablaze and radiant heat wood fiber.

2/ BROOF T3 : French Standard

- 2 x models with different configurations
- 2 x 30 minutes of test
- Use of burning firebrands, radiant wind and heat
- Validation for 10° to 70° roof in accordance with the paragraph 11 "activity sector" of the testing protocol.

3/ BROOF T4 : English Standard

- 4 x models with different configurations
- 4 x 1 hour of test
- The fire did not get through the structure during the allotted time.



Videos of the fire exposure tests are available on our website www.gseintegration.com

CONCLUSION
The GSE Integration system is therefore flame-retardant according to the DD CEN/TS 1187: 2012, Test 1, Test 3 et Test 4 standard.

CSTB Waterproofing analysis report

ANALYSIS OF WATERPROOFING AND WIND RESISTANCE OF THE SVH ÉNERGIE PHOTOVOLTAIC PANELS SYSTEM

WATERPROOFING TESTS IN RAIN

CONCLUSIONS

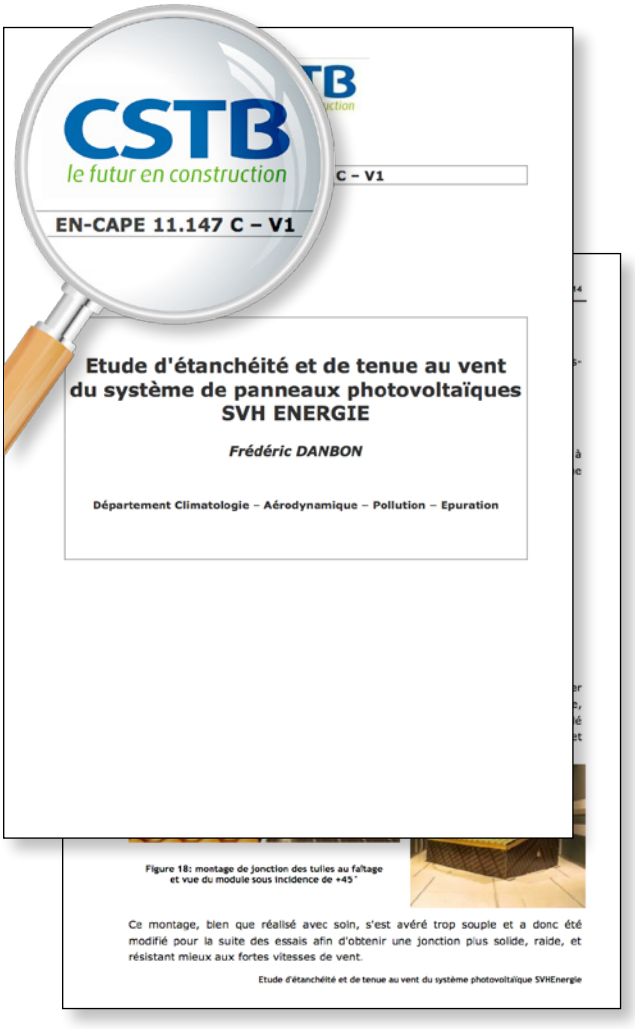
The "GSE Integration" kit, with ZNshine Solar photovoltaic panels, was effectively waterproof under severe rain/ wind conditions (rainfall 130 mm/h with a wind speed of 14 m/s) and a shallow roof slope.

TESTS OF REMOVAL BY WIND

CONCLUSIONS

The SVH ENERGIE "GSE Integration" system, with photovoltaic panels, on a traditional GR13 tile roofing, was tested for waterproofing and for its resistance to strong winds.

The waterproofing tests, under a combination of wind and rain, confirmed that the integration system is effective. Waterproofing performance is summarised in the table below :



OVERVIEW OF WATERPROOFING TEST RESULTS

Full scale tests, conducted in a climatic blower system, on 21st and 22nd July 2011, confirmed the effectiveness of the "GSE Integration" system under severe climatic conditions.

Type of Roofing	Slope length	Wind-rain intensity	Slope	Angle of incidence in relation to wind	Observations during test	Test result
GR13 Tile in baked clay	8.2 m	14 m/s 130 mm/h	12° (21%)	0°, + 30°, + 60°, - 30°, - 60°,	No leak if properly installed	Positive

CSTB Ageing analysis report

ACCELERATED AGEING OF PHOTOVOLTAIC MODULE MOUNTING PANELS

1/ ACCELERATED AGEING IN RELATION TO UV RADIATION

Method of exposure to UV radiation

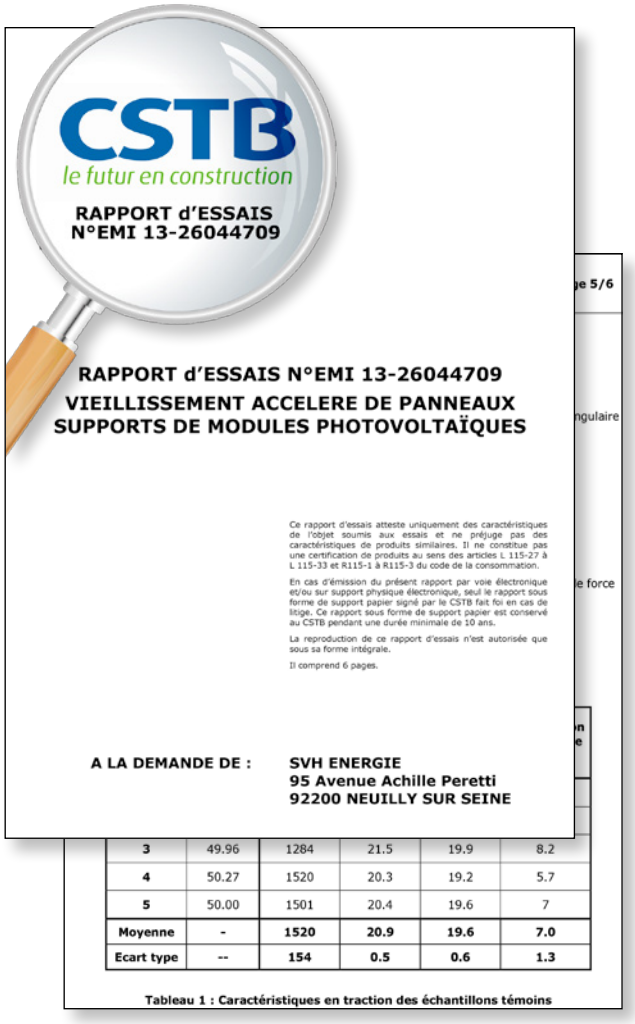
The accelerated ageing tests were conducted in compliance with standards NF EN ISO 4892-1 and 2 : "Exposure to a Xenon arc lamp light source", method A, cycle 1, under the following conditions :

- energy spectrum lighting: 0.51 W/m² at 340 nm, giving an overall energy spectrum lighting of 550 W/m² (wavelength: 290-800 nm),
- air temperature in chamber: 38°C ± 3°C,
- relative humidity (RH): 50% ± 10%,
- temperature on BST type black panel: 65°C ± 3°C,
- watering cycle :

- watering: 18 mn ± 0.5 mn,
- drying: 102 mn ± 0.5 mn,

- permanent lighting.

Exposure duration: 2000 hours.



2/ ACCELERATED AGEING IN STOVE

Method of climatic exposure

The climatic ageing tests were conducted under the following conditions :

- 10 cycles, as follows :

- 8 h at 50°C and 95% relative humidity
- Transition 1 h
- 16 h at –20°C
- Transition 1 h

3/ TENSILE STRENGTH CHARACTERISTICS

Test principle and conditions

Measurement of rupture force and extension of a rectangular test piece, drawn along its main axis at constant velocity.

Test conditions are defined by standard NF EN ISO 527-2 :

- Test piece geometry: type 1B (dumbbell).
- Test conditions: 23°C and RH 50%.
- Velocity for modulus computing: 2 mm/min

Test velocity is 30 mm/min.

SUMMARY OF TENSILE STRENGTH AFTER AGEING TEST RESULTS

Results were computed in accordance with standard NF EN ISO 527-1. The tests confirmed that elasticity E_t (MPa), maximum acceptable loading δ_M (MPa), rupture load δ_B (MPa) and distortion capacity before rupture ε_B (%) remained unchanged after the various treatment cycles defined above.

CSTB Report - Ageing analysis

AGEING ANALYSIS IN REAL CONDITIONS

In order to be as representative as possible about the ageing of the polymer, GSE frames have been taken from 2 year-old existing installations both in the North and South of France, to evaluate their integrity and the mechanical properties of the aged material.

1/ CHARPY IMPACT TEST

The tests has been performed according to the **EN ISO 179-1** (Aug 2010) standard

- Pendulum : 2J
- Impact speed : 2.919 m/s

	Control Frame	« North » Frame	« South » Frame
Mean Values (kJ/m²)	**4.1**	**4.9**	**5.0**
Standard deviation	0.4	0.4	0.3
Dispersion (%)	9.3	7.2	5.1

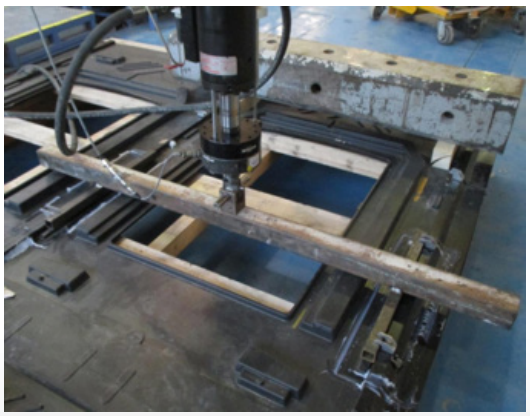
Those results show a non-significant evolution of the resilience of the aged material.

2/ FATIGUE AND WATERTIGHTNESS COUPLED TEST

Consist in a fatigue test with a watertightness control of the sample according to the **EN ISO 7500-1** and the **EN ISO 6892-1** standards.

70,000 cycling loads applied on the fixing system :

Phase	Charges (daN)	Charge totale appliquée au vérin F (= Cp,Cd x 4 rails)			
		Cd (daN)	Cp (daN)	Nombre de cycle	Fréquence (Hz)
1	Cp=-72,7 daN/étrier Cd=+72,7 daN/étrier	$\frac{3}{4}C_d$	$\frac{3}{4}C_p$	1	-
2		-218	218	50 000	1
3		Cd	Cp	1	-
4		-291	291	20 000	1



Watertightness control => “nothing to report, no leak has been detected on the water flow area.”

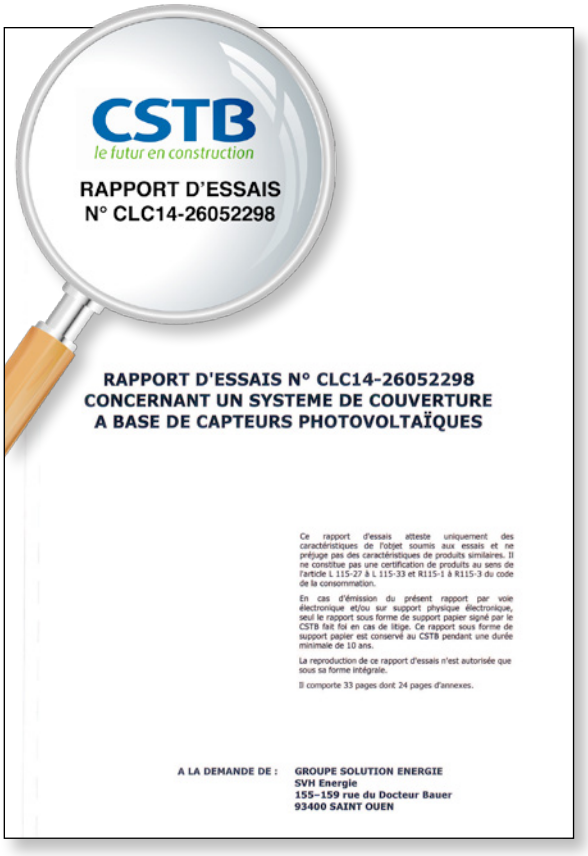
CONCLUSION

Even after 2 years of use, the product degradation meets our expectation according to those results and the watertightness of the water flow areas is insured even after an extreme mechanical stress.

CSTB Report wind resistance

WIND LOAD RESISTANCE COMPLIANT TO NF EN 12179 (OCTOBRE 2000) STANDARDS

The tests were performed according to standard NF EN 12179 (October 2000): wind load resistance - Test method.



PRESSURE/DEPRESSION VALUES VALIDATED

Theoretical wind pressure	Theoretical wind depression
1 300 Pa	- 1 300 Pa

MEASUREMENT OF DISTORTION TO PRESSURE/ DEPRESSION THEORY

Objects	Way	Pressure/depression maximum	Arrows calculated	Measurement results (in mm)
A	Pressure	1 300	1 - 2 - 3	0,2
A	Pressure	1 300	3 – 4 - 5	6
A	Depression	- 1 300	1 - 2 - 3	- 0,1
A	Depression	- 1 300	3 - 4 - 6	- 8,3

NO SIGNIFICANT DEFORMATION WAS OBSERVED.

RESISTANCE TO WIND LOAD IN INCREASED

The model is subject to pressure and depression, increased wind load equal to 150% of the theoretical wind load.

Objects	Pressure (Pa)	Depression (Pa)	Criteria	Results
A	1 969	- 2 025	No permanent damage should occur over framing members, the filling elements, openings, fasteners or anchors. The elements, decorative beading and covers must remain securely attached and the linings of the joints shall not be moved.	Satisfying

TEST OF RESISTANCE TO DESTRUCTION

To validate the theoretical load values due to the wind, the model was subjected to an extreme depression load to be greater than 350% of the design load.

Objects	Depression destruction / maximum	Observations
A	- 5 535 Pa	NO RECORDED DETERIORATION

Conclusion: The model has undergone depression loads of 5,535 Pa (425% of the theoretical value) without proven deterioration. This test validates easily the permissible load value of 1 300 Pa.

CERTISOLIS Test report

MECHANICAL AND CLIMATIC VALIDATION OF THE GSE INTEGRATION SYSTEM

MECHANICAL LOADING TESTS

Sample(s)	20120903-M008 + GSE Integration structure 20120903-M00
Date tests conducted	10/12/2012
Test equipment	Electrical safety tester
Conclusion	**COMPLIANT**

PRE-CONDITIONING FOR UV RADIATION TESTS

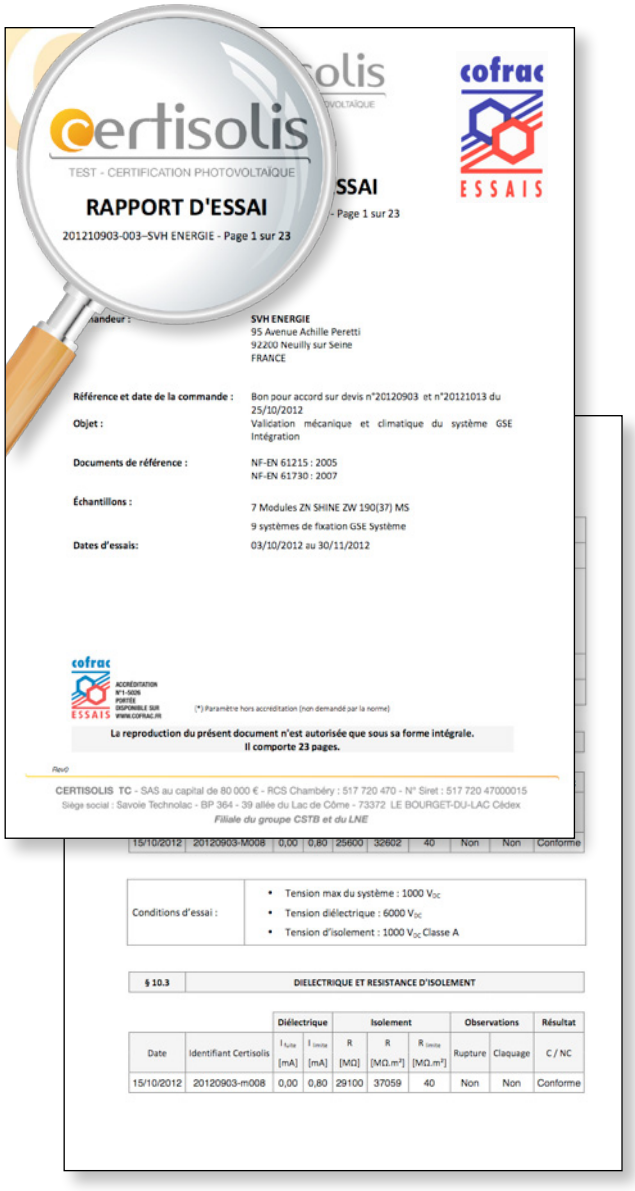
Sample(s)	20120903-M006 / 20120903-M007
Date tests conducted	from 10/18/2012 to 11/06/2012
Test equipment	E-201012023
Conclusion	**COMPLIANT**

THERMAL CYCLING TESTS (200 CYCLES)

Sample(s)	20120903-M005 (STRUCTURE) + M008 (MODULE)
Date tests conducted	from 10/18/2012 to 11/28/2012
Test equipment	Climatic chamber
Result	**NO DEFECT OBSERVED**

HUMID HEAT TESTING (1000 HOURS)

Sample(s)	20120903-M002 (STRUCTURE) + M009 (MODULE)
Date tests conducted	from 10/19/2012 AU 11/30/2012
Test equipment	Climatic chamber
Result	**NO DEFECT OBSERVED**


certisolis
TEST - CERTIFICATION PHOTOVOLTAÏQUE
RAPPORT D'ESSAI
201210903-003–SVH ENERGIE - Page 1 sur 23
cofrac ESSAIS
SVH ENERGIE
95 Avenue Achille Peretti
92200 Neuilly sur Seine
FRANCE
Référence et date de la commande : Bon pour accord sur devis n°20120903 et n°20121013 du 25/10/2012
Objet : Valication mécanique et climatique du système GSE Intégration
Documents de référence : NF-EN 61215 : 2005 NF-EN 61730 : 2007
Échantillons : 7 Modules ZN SHINE ZW 190(37) MS 9 systèmes de fixation GSE Système
Dates d'essais: 03/10/2012 au 30/11/2012
La reproduction du présent document n'est autorisée que sous sa forme intégrale. Il comporte 23 pages.
CERTISOLIS TC - SAS au capital de 80 000 € - RCS Chambéry : 517 720 470 - N° Siret : 517 720 47000015
Filiale du groupe CSTB et du LNE
Conditions d'essai : Tension max du système : 1000 V_DC; Tension diélectrique : 6000 V_DC; Tension d'isolement : 1000 V_DC Classe A
§ 10.3 DIELECTRIQUE ET RESISTANCE D'ISOLEMENT
Date | Identifiant Certisolis | Diélectrique | Isolement | Observations | Résultat
15/10/2012 | 20120903-m008 | 0,00 | 0,80 | 29100 | 37059 | 40 | Non | Non | Conforme

CONCLUSIONS

The **ZN SHINE ZW 190(37) MS module,** used with the **"GSE Integration" system,** assembled by **3 clamps** (heavy duty type) **responded favourably to the 2400 Pa mechanical load test.**

The module **remained in its structure throughout the duration of the test and met the requirements of paragraph 10.16 of standard NF EN 61215.**

The "GSE Integration" mounting systems subjected to the UV radiation pre-conditioning test **exhibited no visual defect after 15 kWh.m2 of exposure to UV radiation.**

The modules installed with "GSE Integration" mounting systems that have been subjected to climatic testing (Cycling and Humid heat) **remained in their structure throughout the duration of the tests. No defect observed.**

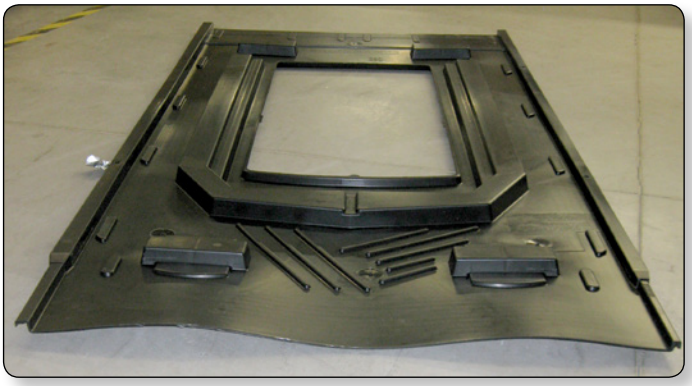
CERTISOLIS Test report

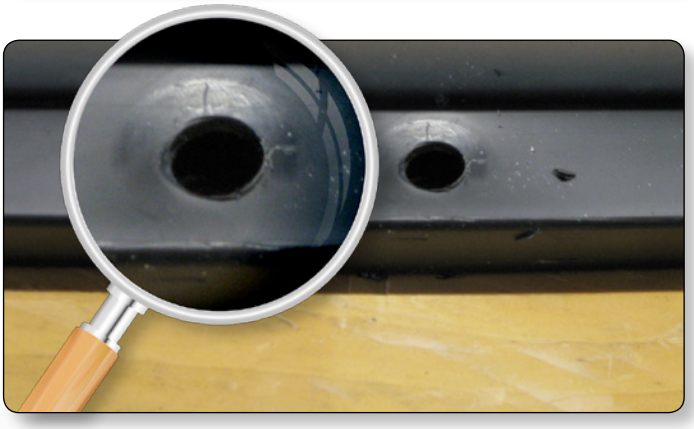
TEST RELATED TO THE EXPANSION OF THE GSE INTEGRATION SYSTEM

certisolis
TEST - CERTIFICATION PHOTOVOLTAÏQUE

THERMAL CYCLING TEST (200 CYCLES)

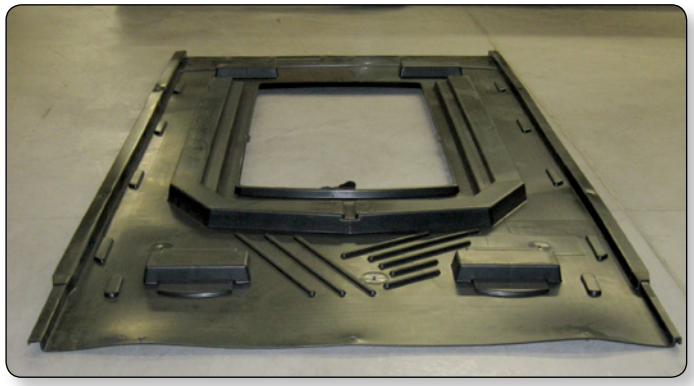
Sample(s)	20120903-M005 (STRUCTURE) + M008 (MODULE)
Date test conducted	from 10/18/2012 to 11/28/2012
Test conditions	20120903-M008 installed with a GSE Integration structure. 20120903-M005 mounted on a wooden structure for assembly onto an alloy chassis. Climatic chamber 200 cycles from -40°C to +85°C
Test equipment	Climatic chamber
Result	**NO DEFECT OBSERVED**





HUMID HEAT TEST (1000 HOURS)

Sample(s)	20120903-M002 (STRUCTURE) + M009 (MODULE)
Date test conducted	from 10/19/2012 to 11/30/2012
Test conditions	20120903-M009 installed with a GSE Integration structure. 20120903-M002 mounted on a wooden structure for assembly onto an alloy chassis. Climatic chamber 1000 h at +85°C, RH 85%
Test equipment	Climatic chamber
Result	**NO DEFECT OBSERVED**



CONCLUSIONS

Modules installed with GSE mounting systems were subjected to climatic testing [thermal cycling (200 cycles from -40°C to +85°C) and humid heat]. **The modules remained in place in their structure throughout the entire test period and were not damaged in any way.**

CEIAB 2012 standards

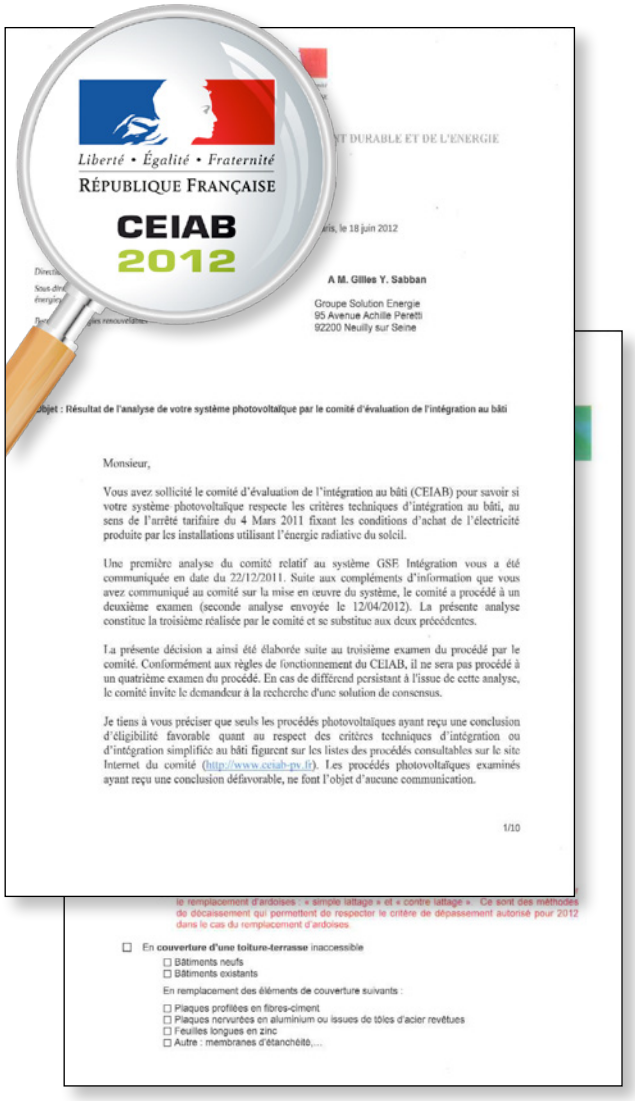
ANALYSIS OF BUILDING INTEGRATION ASSESSMENT COMMITTEE

CONCLUSIONS

The committee reached the following conclusions :
- The system meets building integration technical requirements (IAB 2012) for installation in partial coverage of one roof face comprising :

• **From the year 2012 :** Slates, flat tiles in baked clay or concrete, flat exposed tiles, interlocking or slide-in, in baked clay or concrete. Profile tiles, interlocking or slide-in, in baked clay or concrete, baked clay channel tiles, formed plates in cement fibre.

- The system meets the simplified building integration technical requirements (ISB 2012) for installation in partial coverage of one roof face.



THE GSE INTEGRATION SYSTEM MEETS THE REQUIREMENTS OF **CEIAB 2012** STANDARDS FOR ALL ROOFS, FOR CONVENTIONAL PHOTOVOLTAIC PANELS.

Seismic behaviour and slipping resistance

ANALYSIS OF THE SLIPPING RESISTANCE OF THE SYSTEM

Each test specimen is composed of a model with 2 PV modules (1 line in portrait format) on which is applied a representative snow load. 4 tests have been performed for different pitches values: 12°, 30°, 45° & 50°.

Typical snow load value : P_{SD}	**1800 Pa**
Typical snow load applied : P_N	**2970 N/module**
Extreme snow load value: P_U	**4460 N/module**
Snow load needed before wrecking : P_{RUIN}	**9100 N/module**

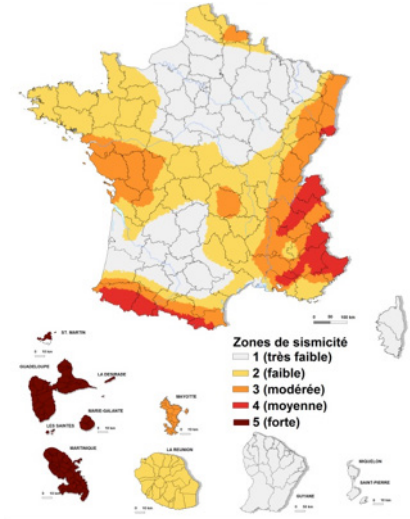
Results :
- 12 to 45°: No wrecking observed at 9100 N (910 kg/module)
- 50°: the PV module frame has been wrecked after 45 min of a 9100 N load

SEISMIC BEHAVIOR OF THE SYSTEM

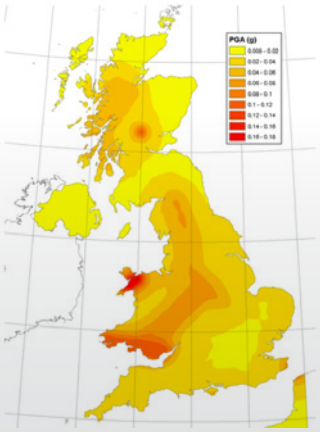
Analysis of the system behaviour under seismic activity, while it is considered as a “non-structural element” according to the following standards :

- Eurocode 8 : NF EN 1998-1 and National Annex
- Eurocode 5 : NF EN 1995-1 and National Annex

For the metropolitan France, the system complies with all the seismic zones for all kind of buildings (including buildings Class IV as defined in the Eurocode 8).



	I	II		III	IV
Zone 1	aucune exigence				
Zone 2				Eurocode 8 [3] a_{gr}=0,7 m/s²	
Zone 3		PS-MI[1]	Eurocode 8 [3] a_{gr}=1,1 m/s²	Eurocode 8 [3] a_{gr}=1,1 m/s²	
Zone 4		PS-MI[1]	Eurocode 8 [3] a_{gr}=1,6 m/s²	Eurocode 8 [3] a_{gr}=1,6 m/s²	
Zone 5		CP-MI[2]	Eurocode 8 [3] a_{gr}=3 m/s²	Eurocode 8 [3] a_{gr}=3 m/s²	

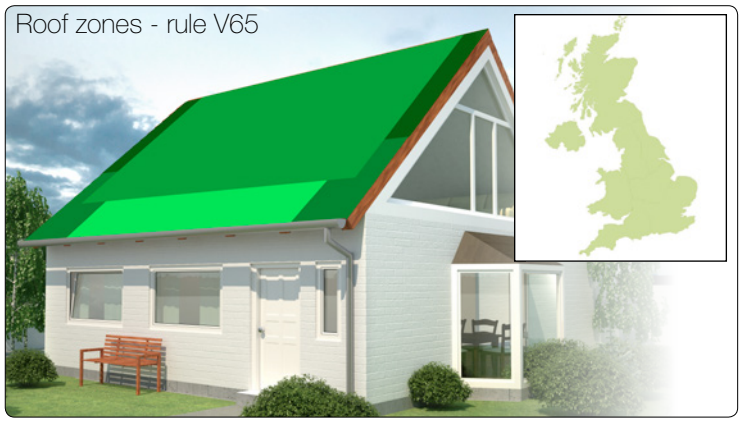


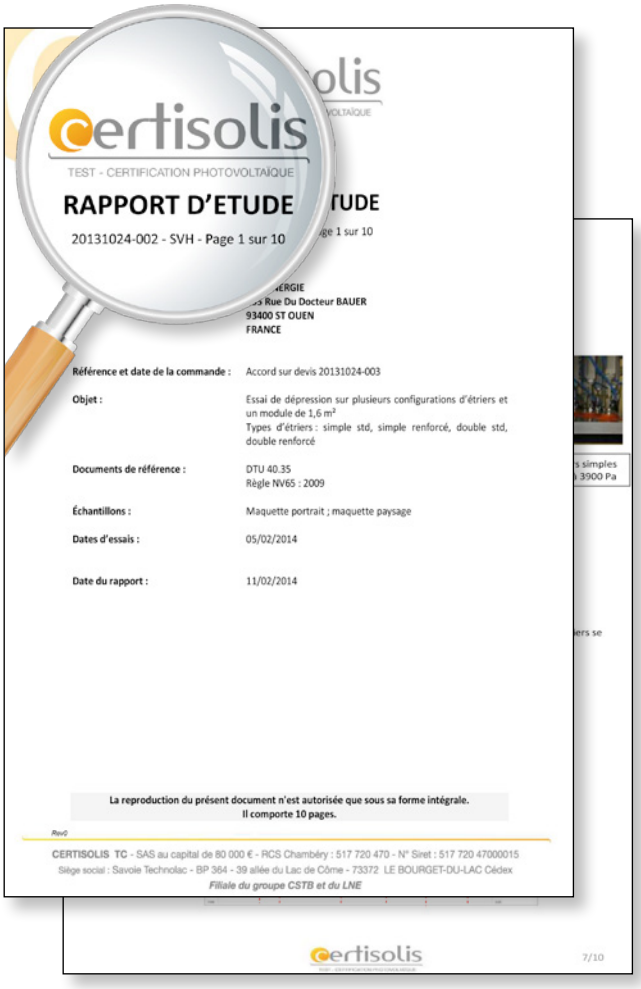
In comparison, the worst case in United-Kingdom is not worse than the zone III in France that we can consider the system **complying with all the seismic zones in United Kingdom.**

CLAMPS RESISTANCE – WIND ZONES

WIND ZONES – EN 1991-1-4

The current standards allow us to define specific mechanical resistances of the system, according to the wind actions and the location of the PV field on the roof.





CLAMPS RESISTANCE

The results of tests conducted by CERTISOLIS (French test lab) have showed off the mechanical resistance of the system for each kind of clamps setting (4 or 6 clamps).

WIND ZONES/CLAMPS RELATION

Thus, we can establish global recommendations for the number of clamps to apply in all zones ruled by the Eurocode :

Depression calculation N / m2 (Pa) calculated in the case of slopes plans (V65 with following rules amending No. 2)

Table 1.1 - Slopes Plans - Rolled ribbed steel wood and derived products - New Construction - Buildings closed

Wind Zone	Wind Speed (in m/s)	Wind Speed in Km/h	Number of clamps per panel
Wind Zone I	< 21 m/s	< 75.6 km/h	4
Wind Zone II	21 to 23 m/s	75.6 to 82.8 km/h	4
Wind Zone III	23 to 25 m/s	82.8 to 90 km/h	4
Wind Zone VI	25 to 27 m/s	90 to 97.2 km/h	4
Wind Zone V	>27 m/s	> 97.2 km/h	4

x4 Clamps (resistance 1860 Pa - security coef. 1.5)

x6 Clamps (resistance 3460 Pa - security coef. 1.5)

RSA Liability Insurance

LIABILITY INSURANCE TRADING AND PRODUCT

Royal & Sun Alliance Insurance (RSA) certifies that **SVH Energy Company** benefits from the contract **No. 400051,** against the financial consequences of the liability it may incur due to the damage caused to third parties, as long as after the performance of work and / or delivery of products, because of the safeguards activities under this contract.

This warranty is valid for the policy period **from June 1st 2015 to December 31th 2015.**

RSA

ASSURANCE
RC PRODUIT
ET EXPLOITATION

.STATION D'ASSURANCE

ous soussignés, Royal & Sun Alliance Insurance Plc 153 rue Saint Honoré 75001 PARIS, certifions que
a Société:

SVH Energie
5-9 rue Morand – 93400 Saint-Ouen

bénéficie du contrat n° 400 051, garantissant les conséquences pécuniaires de la Responsabilité Civile pouvant lui incomber en raison des dommages causés aux tiers, tant pendant que après l'exécution des travaux et/ou la livraison des produits, du fait des activités garanties au titre de ce contrat.

Cette attestation est valable pour la période d'assurance du 1er juin 2015 au 31 décembre 2015 sous réserve du paiement des primes et des possibilités de suspension de la police, dans les cas prévus par le Code des Assurances ou par le contrat.

CETTE ATTESTATION EST DELIVREE POUR SERVIR ET VALOIR CE QUE DE DROIT, ET NE PEUT EN AUCUN CAS ENGAGER LA COMPAGNIE AU DELA DES CLAUSES ET CONDITIONS DU CONTRAT AUQUEL ELLE SE REFERE.

La présente attestation ne peut engager l'Assureur au-delà des termes et limites du contrat d'assurance auquel elle se réfère. Sa validité cesse pour les risques situés à l'étranger dès lors que l'assurance de ces derniers ne peut être souscrite conformément à la Législation locale qu'auprès d'Assureurs agréés dans la nation considérée.

Fait à Paris le 19 juin 2015

Royal & Sun Alliance Insurance Plc.
153 Rue Saint Honoré
75001 PARIS
Téléphone : +33 1 58 71 40 35
Fax : +33 1 58 71 41 35

Contact

GSE INTEGRATION

GSE Intégration

Votre distributor :

TECHNICAL DEPARTMENT / ASSISTANCE SERVICE

TECHNICAL ASSISTANCE IS AVAILABLE FROM MONDAY TO FRIDAY, FROM 8 AM TO 6 PM.

GSE Intégration

16 QUAI GUSTAVE FLAUBERT 76380 CANTELEU
Tél. 02 32 10 77 60
Mail: **technique@gseintegration.com**

Sales conditions

Article 1 - Purpose
The purpose of these General conditions of sale is to govern the contractual relationship between the Supplier and its customers in the context of sales of the product "GSE INTEGRATION" offered for sale by the Supplier.
Every order accepted in accordance with Article 3 constitutes our special conditions which modify or supplement these general conditions.

Article 2 - Scope
Sale of the product "GSE INTEGRATION" by the company SVH ENERGIE is made exclusively subject to these general terms and conditions (T&Cs), which are addressed to each Customer on a routine basis. The particulars shown in catalogues, brochures, prospectuses and price lists, as well as statements made by the Supplier's sales staff and technicians, are of indicative value only.
Any firm order accepted by our company implies the Customer's unreserved acceptance of these general conditions of sale.
These General conditions of sale come into force on the date of confirmation of order, as defined at Article 3.

Article 3 - Formation / modification of the contract
Any sale, even negotiated by the agents or representatives of SVH ENERGIE, is treated as accepted by SVH ENERGIE only after it has been confirmed in writing or has been carried out. This accepted order will constitute the special conditions.
Any modification of the order requested by the customer will be taken into account only if it reaches us in writing before we have incurred any expenditure in relation to the initial order. Any modification of the order must be accepted by SVH ENERGIE in writing.

Article 4 - Price
The prices of the goods sold are those in force on the day the order is taken.
Prices are understood to exclude VAT and other taxes that apply, the Customer being in addition responsible for the costs of packing and shipping the products.
The prices contained in our price offers, catalogues/price lists are not contractual.
They are liable to change in accordance with the variations which manufacturers impose on us.

Article 5 - Period - Payment terms
5.1 Settlement of orders is effected:
1- either by cheque;
2- or by bank transfer.
5.2 When the order is registered, the Customer must make a down-payment of 30% of the amount of the invoice, including all taxes, the balance having to be paid on the date the goods are delivered.
Unless stated to the contrary, any payment by the Customer is applied against the oldest invoice.

Article 6 - Late payment
Any sum not paid by due date shall give rise to payment by the Customer of penalty charges fixed at one and a half times the legal interest rate, without prejudice to any claim for compensation of loss or harm connected to the said delay.
The legal interest rate used is that in force on the date the goods were delivered.
These penalty charges are calculated on the amount, all taxes included, of the sum remaining due.
They are due and payable as a matter of law with effect from the due date of invoice and will be automatically carried to the debit side of the Customer's account. They will remain in application until payment in full of the whole of the sums due to the Supplier.
Any invoice recovered through the courts will be subject to a fixed charge of 15% of the amount of the invoice due as a penalty clause.
In the case of payment by paper instrument, the failure to return the said paper shall be considered a refusal of acceptance and treated as default of payment. Similarly, where payment is by instalment, the non-payment of a single instalment shall entail the whole of the debt being immediately due and payable, without prior formal notice.
The Customer must reimburse all costs incurred by recovery of the sums due through the courts.

Article 7- Reservation of title
Ownership of the goods delivered to the Customer transfers only after payment of the price agreed in full, in principal and incidentals, even in the case where payment terms are granted. In case of remittance of a bill of exchange or of any instrument to cover this price creating an obligation to pay, the transfer of ownership will occur only after actual collection.
Thus, if the customer is the subject of judicial liquidation or corporate recovery plan, SVH ENERGIE reserves the right to claim the goods sold but not paid for within the framework of the collective liquidation proceedings.
With effect from delivery, the customer becomes the depository and keeper of the said goods.
In the case of non-payment and except where SVH ENERGIE chooses to enforce the sale in full, SVH ENERGIE retains the right to consider the sale rescinded for fault, after formal notice has remained without effect for 15 days, and to claim the goods delivered, the return costs being at the purchaser's charge and the payments made being accrued to SVH ENERGIE in terms of a penalty clause.

Article 8 - Shipping - Delivery - Compliance
8.1 Release or shipment of the products ordered.
The products ordered are, at the Customer's request, either released for his disposal in the Supplier's warehouses or shipped to the address stated on the order. Packing and, as the case may be, shipment of the products, are carried out at the Customer's cost.
8.2 Delivery lead-times
The delivery lead-time stated on registering the order is given only for indicative purposes and is in no way guaranteed.
Accordingly, any delay in releasing the products shall not give rise to the following in the customer's favour:
• the award of damages and compensation;
• application of penalty charges;
• cancellation of the order.
8.3 Compliance
It falls to the customer to verify the goods delivered as soon as they are delivered.
In case of goods missing, damaged or apparently non-compliant, the customer must express the necessary reserves on the delivery slip on receipt of the said goods. In addition, these reserves must be confirmed in writing within five working days of delivery, by registered post with advice of receipt. Failing which, the customer is deemed to have accepted the goods without reservations.
The customer must supply evidence as to the reality of the defects found; SVH ENERGIE reserving the right to conduct any findings and checks on site, directly or indirectly. The return of non-compliant goods is subject to prior acceptance by SVH ENERGIE. Failing which, the customer is deemed to have accepted the goods without reservations.
In case of non-payment of the whole of an invoice by due date, after notice to pay has remained without effect for 48 hours, SVH ENERGIE reserves the option of suspending all deliveries in progress and/or to come.
In the case where a customer places an order on SVH ENERGIE without having made payment of previous order(s), SVH ENERGIE will be able to refuse to meet the order and deliver the goods in question, without the customer being able to claim any compensation for any reason whatsoever.

Article 9 - Transfer of risks
9.1 Unless the parties particularly agree otherwise, the transfer to the customer of the risks of theft, loss, deterioration or destruction takes place on delivery or, in the case of remittance to a carrier, when the goods are delivered to the first carrier.
9.2 At the Customer's request and expense, the Supplier may take out insurance against losses and damage caused by transport.

Article 10 – Force majeure
The liability of SVH ENERGIE can only be incurred if the non-performance or delay in performance of any of its obligations described in these general conditions of sale arises from a case of force majeure.
We understand force majeure to mean any alien cause, foreseeable or not, of an irresistible nature or whose effects would substantially alter the economic balance of the sale for SVH ENERGIE.
Events such as strike, lock-out, fire, flood, riot, war, scarcity of fuel, energy, transports, materials, products necessary for SVH ENERGIE's productions etc., are deemed to be a case of force majeure, even if they are only partial and regardless of the cause thereof.

Article 11 - Warranties and liability
11.1 Warranties
11.1.2 Public liability insurance SVH ENERGIE carries public liability insurance.
11.1.2 Hidden defects warranty
To the extent that the Customer is considered a professional in the same speciality, action by the latter to enforce a hidden defects warranty against the Supplier pursuant to Articles 1641 et seq of the Civil Code, is limited to defects which appear within a period of six (6) months from the date on which the product risks transferred to the Customer, provided the Customer informed the Supplier thereof by letter in recorded delivery with acknowledgement of receipt within seven (7) days of the defect being discovered. It falls to the Customer to bring proof of the date on which the defect was discovered.
In case of these conditions not being met, the Customer may not rely on the hidden defects warranty against the Supplier.
In case of hidden defects affecting the products, the Supplier is bound only to replace or repair the products.
After the Supplier's prior written agreement allocating a return number, the products must be returned to the Supplier in its premises and at its cost, with the corresponding invoice and a description of the defects found. Products thus returned will be tested by the Supplier to satisfy itself that the alleged defects are inherent in the products and that the defects are not connected to a cause outside the warranty.
In the event the Supplier does not find any hidden defects or finds that the defects are connected to a cause excluded from the warranty, the Supplier will return the products to the Customer postage due and reserves the right to invoice it for the costs of the tests and other costs and expenses borne. If the Supplier confirms that there are hidden defects, it undertakes, at its discretion, to replace or repair the products within, respectively, three (3) and six (6) months. These time periods are supplied as an indication only and must be confirmed by the Supplier in writing.
In case it is impossible for the Supplier to replace or repair the defective products within a reasonable time-frame, beyond the time periods stated, the Supplier will inform the Customer who will be entitled to ask for the Contract to be cancelled.
11.2 Liability
Except in the event of gross or wilful negligence on the part of the Supplier, the Supplier excludes all liability towards the Customer connected with the sale of the products.
The Supplier excludes all warranty and liability in case of defect, damage, loss or deterioration of the products arising from (i) poor installation or use of the products, (ii) any conversion, removal, incorporation to other products or other modification made to the products by any person other than the Supplier itself, (iii) the failure to comply with the Supplier's instructions, (iv) abnormal storage conditions and/or conservation conditions of the products with effect from their delivery, and (v) shipment of the products.
The Supplier excludes all liability in respect of collateral damage to property.

Article 12 - Allocation of jurisdiction and competence
Any dispute relating to the application of these general conditions of sale, to their interpretation, performance and to the contracts of sale entered into by our company, or to the payment of the price, will be of the exclusive competence of the courts in whose jurisdiction is situated the registered office of SVH ENERGIE, whatever the place of order, delivery, payment, the method of payment and even in case of action to enforce a guarantee or multiple defendants.
In case of court action or any other action to recover receivables by our company, the costs of writs and summons, of the courts, fees of lawyers and bailiffs as well as all related costs will be at the customer's charge.

Article 13 - Waiver and Governing law
13.1 The fact of our company not relying at any given time on any of the clauses herein shall not be tantamount to waiver to rely on these same clauses subsequently.
13.2 Any question relating to these general conditions of sale as well as to the sales they govern that has not been covered by these contractual provisions shall be governed by French law, to the exclusion of all and any other law.

GSE INTEGRATION is a development program patented by
the GROUPE SOLUTION ENERGIE
www.segroup.fr

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