

PHOTOVOLTAIC WATERPROOFING SYSTEM

EXCEL[®] SOLAR

WITH FLEXIBLE AND SELF-ADHESIVE MODULES



AXTER

WATERPROOFING SOLUTIONS

BITUMINOUS SYNTHETIC LIQUID ENVIRONMENTALLY FRIENDLY

EXCEL[®] SOLAR

A FLEXIBLE SOLUTION FOR ALL TYPES OF STRUCTURAL MEMBERS AND ALL TYPES OF INSULATING MATERIALS (CLASS C).

EXCEL[®] SOLAR is a complete photovoltaic waterproofing procedure for roof terraces with high-yield flexible CIGS modules (up to 18.3%).

The EXCEL[®] SOLAR photovoltaic waterproofing procedure is suitable for all types of new and repaired structural members and depending on the types of implementation (self-adhesion, welding using a blowtorch, or using mechanical fixing apparatus).

The low weight of the modules (2.3 kg/m²) combined with the low weight of the waterproofing materials (≈ 5.3 kg/m² single layer configuration* or ≈ 6.7 kg/m² double layer configuration**) thus allows to equip roofs that are not suitable for rigid modules.

PERFORMANCE AT EVERY LEVEL



LIGHTNESS

Ideal solution for flat roof renovation on steel deck.



HIGH EFFICIENCY

Power: 100 to 520 Watt peak (Wp)
Efficiency: up to 18.3%.



ADAPTABILITY

Freedom in choosing photovoltaic module installation surface by self-adhesive sealing.



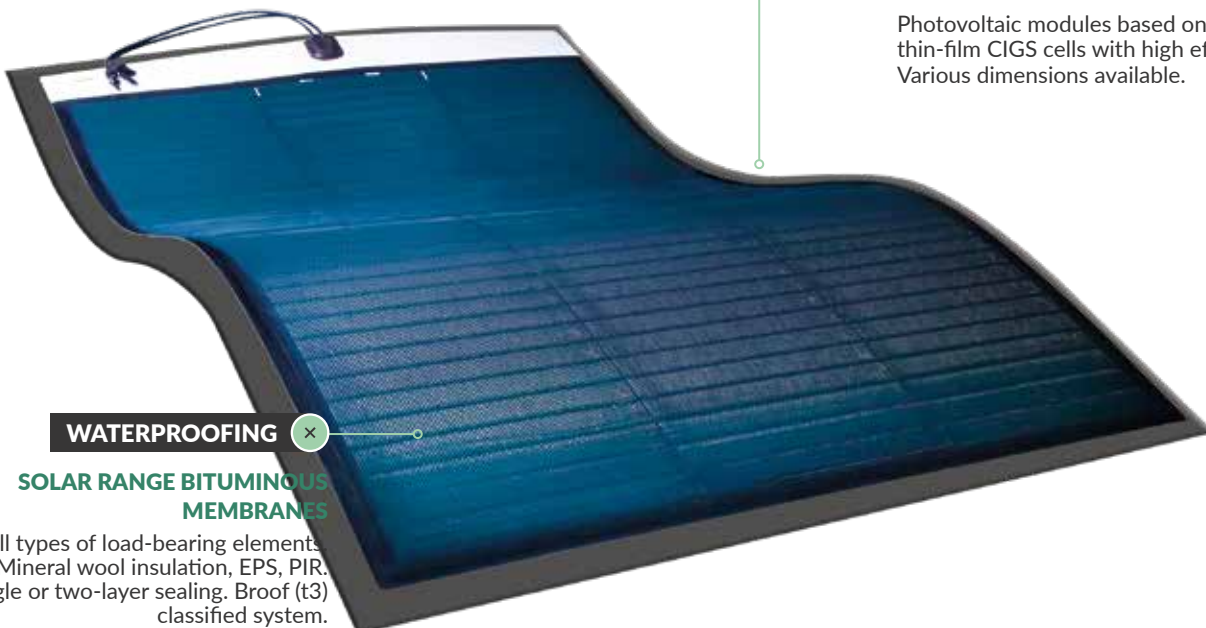
ENERGY

Addresses the requirements of the ENERGY CLIMATE act.



EASY MAINTENANCE AND UPKEEP

Possibility to efficiently replace the modules on demand.



WATERPROOFING

SOLAR RANGE BITUMINOUS MEMBRANES

On all types of load-bearing elements.
Mineral wool insulation, EPS, PIR.
Single or two-layer sealing. Broof (t3) classified system.

FLEXIBLE PANEL

Photovoltaic modules based on flexible thin-film CIGS cells with high efficiency. Various dimensions available.

* One-layer system ALPAL 4000 SOLAR

** Two-layer system TOPFIX PY SOLAR + ALPAL 25 SOLAR

APPLICATION :

SIMPLE INSTALLATION

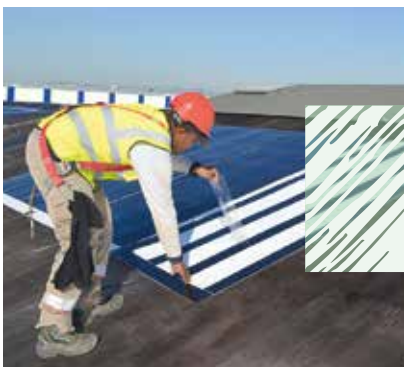
APPLICATION OF THE MODULES BY SELF-ADHESIVE MEANS WITHOUT PERFORATION OF SEAL.



1

PREPARATION

of the waterproofing membrane supporting the photovoltaic modules.



2

REMOVAL OF PEEL-OFF FILM

protecting the self-adhesive strips on the back of the modules.



3

APPLICATION

of modules and smoothing down on the self-adhesive strips.

ADVANTAGES

- **EXCEL® SOLAR is a complete application:** the waterproofing and flexible panels are installed by the same waterproofing technician.
- The **EXCEL® SOLAR modules are applied using a self-adhesive** on the waterproofing support.
- **The modules are installed independently of the waterproofing layout plan** and it is possible to install them on top of the roofing.
- **The layout plan is thus not necessary** for any future fixing points or puncture in the waterproofing.
- The **ALPAL® 4000 SOLAR** or **ALPAL® 25 SOLAR** membranes that constitute the waterproofing complex, in combination with **ALPA®**, offer a **non-tiled finish which is UV resistant**. Therefore there is **no need to apply a primer nor to level the added flakes prior to installing the modules**.

DOCUMENTATION & CERTIFICATION

- > INSTALLATION GUIDE
- > MODULE REPLACEMENT PROCEDURE
- > TRAINING AND START-UP ASSISTANCE



COMPLETE BROOF
(T3) CLASSIFIED
SYSTEM



CSTB TECHNICAL
OPINION
CSTB
12, rue de la République



Eco-organisation approved by the public authorities for the collection and processing of photovoltaic panels at the end of their service life.



AXTER designs, manufactures and markets waterproofing processes (bituminous, PVC, S.E.L.) for flat or sloped roofs as well as for Public Works and Civil Engineering projects. These sealing systems also include all the complementary products and accessories necessary for their implementation.

AXTER generates more than 40% of its turnover through exports to over 50 countries worldwide. Our commercial and technical teams are committed to assist you and, as true partners, accompany you at every stage of your projects.

Avec vous, par dessus tout

HEAD OFFICE

France and International Trade
143, avenue de Verdun
92130 Issy les Moulineaux
Tél. 33 (0)1 55 95 45 50
info@axter.eu

AXTER IBÉRICA

Apdo. de Correos 180 - P.I. Ca N'illa
Avda. Jacint Verdaguer, 26
08530 La Garriga - Barcelona - España
Tél. +34 93 871 7333
info@axter.es

AXTER CZECH REPUBLIC, SLOVAKIA

Eliášova 20 - 160 00 Praha 6
Czech Republic
Tél. +420 222 951 195
info@axter.info

AXTER COLETANCHE INC.

1500 rue du Collège - Suite 205
Saint-Laurent, QC H4L 5G6 - Canada
Tél. +1 (514) 903-1912
info@axtercoletanche.com

FACTORY AND CUSTOMER SERVICE FRANCE

Rue Joseph Coste
F-59552 Courchelettes
Tél. +33 (0)3 27 93 10 20
serviceclients@axter.eu

AXTER LIMITED

West Road Ransomes Europark
Ipswich - Suffolk - IP3 9 SX
United Kingdom
Tél. +44 1 4737 240 56
info@axterltd.co.uk

AXTER CHILI

La concepción, 65,
Oficina 904 Providencia
7500010 Santiago de Chile, Chile
Tél. +(56-22) 236 99 39
info@axter.es

TECHNICAL GUIDANCE

Rue Joseph Coste
F-59552 Courchelettes
Tél. +33 (0)3 27 93 78 93
conseil-technique@axter.eu

AXTER CENTRAL, NORTHERN AND EASTERN EUROPE, CIS, CENTRAL ASIA

33 rue des 3 Frontières
68110 Illzach, France
Tél. +33 (0)3 89 61 51 61
info@axter.de

AXTER AUSTRALIA

Suite 1302 - 13th floor
50 Cavill Avenue
4217 Gold Coast, Australia
Tél. +61 (7) 56 35 44 89
info@axter.com.au

www.axter.eu

