



EC CONFORMITY DECLARATION

EC DIRECTIVE 89/106/EC FROM 21/12/1988 : CONSTRUCTION PRODUCT DIRECTIVE (CPD)

NAME AND ADDRESS OF MANUFACTURER

RENOLIT BELGIUM NV
INDUSTRIEPARK DE BRUWAAN 9
9700 OUDENAARDE
BELGIUM

FACTORIES CONCERNED BY THE PRODUCTION OF THESE PRODUCTS

01 : RENOLIT BELGIUM NV, INDUSTRIEPARK DE BRUWAAN 9, 9700 OUDENAARDE, BELGIUM
02 : RENOLIT IBERICA SA, CARRATERA DEL MONTNEGRE, S/N 08470 SANT CELONI, SPAIN

NAME AND ADDRESS OF CERTIFICATION BODY

CSTB, 84 AVENUE JEAN JAURES, CHAMPS-SUR-MARNE, 77447 MARNE-LA-VALLEE CEDEX 2,
FRANCE
NUMBER OF NOTIFIED BODY : 0679

PRODUCT DESCRIPTION

TYPE : FLEXIBLE POLYVINYLCHLORIDE
IDENTIFICATION : ALKORPLAN F
USE : PLASTIC SHEETS FOR ROOF WATERPROOFING. SYSTEMS OF MECHANICALLY FASTENED
FLEXIBLE ROOF WATERPROOFING MEMBRANES.

REFERENCE EUROPEAN TECHNICAL APPROVAL

ETAG 006:2000 AND HIS SECTION 3 ATTESTATION OF CONFORMITY

PARTICULAR CONDITIONS APPLICABLE TO THE USE OF THE PRODUCT

ETA 06/0023 VALID FROM 12/04/2006 TO 11/04/2011

CERTIFICATE OF FACTORY PRODUCTION CONTROL

FACTORY 01 : 0679 – CPD - 0156
FACTORY 02 : 0679 – CPD – 0157

NAME : CHRISTIAN VERGEYLEN
TITLE : GENERAL MANAGER
DATE : 27/03/2008
VERSION : 1
io D. Van der Sype

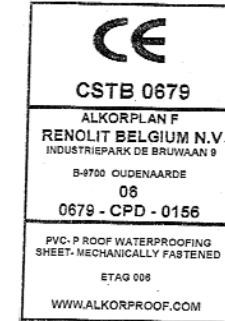
A handwritten signature in blue ink, appearing to be 'Christian Vergeylen'.

TECHNICAL DATA ALKORPLAN F

PES REINFORCED PVC-P MEMBRANE FOR MECHANICALLY FASTENED ROOFING SYSTEM



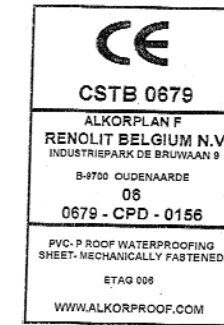
| PROPERTIES | REQUIREMENTS ETAG 006 | UNIT | TYPE | | | STANDARD |
|---|--------------------------|---------|----------|------------|----------|------------|
| | | | 35076 | 35176 | 35276 | |
| 6.1.2.1 EXTERNAL FIRE PERFORMANCE | NP | CLASS | BroofT 2 | BroofT 1,3 | BroofT 1 | EN 13501-5 |
| 6.1.4.1 WIND UPLIFT (ETA 06/0023) | | | | | | |
| TK 2 4.8xL + TK60 | Wadm | N | 697 | 697 | 697 | 5.1.4.1 |
| | Wadm | N | 673 | 673 | 673 | 5.1.4.1 |
| 6.2.2.1 REACTION TO FIRE | NP | CLASS | E | E | E | EN 13501-1 |
| 6.2.3.1 PEEL RESISTANCE OF JOINTS | MLV | N/50 mm | >= 150 | >= 150 | >= 150 | EN 12316-2 |
| 6.2.3.2 SHEAR RESISTANCE OF JOINTS | MLV | N/50 mm | >= 800 | >= 800 | >= 800 | EN 12317-2 |
| 6.2.3.3 TEAR RESISTANCE | MLV | N | >= 180 | >= 180 | >= 180 | EN 12310-2 |
| 6.2.3.4 RESISTANCE TO COLD BENDING/FOLDING | MLV | °C | <= -30 | <= -25 | <= -25 | EN 495-5 |
| 6.2.3.5 RESISTANCE TO WATER PRESSURE | 10 | kPa | PASS | PASS | PASS | EN 1928 |
| 6.2.3.6 WATER VAPOUR PERMEABILITY | MDV * +/- 50 % | | 15000* | 15000* | 15000* | EN 1931 |
| 6.2.3.7 TENSILE PROPERTIES | | | | | | |
| STRENGTH | MLV | N/50 mm | >= 1000 | >= 1000 | >= 1000 | EN 12311-2 |
| ELONGATION | MLV | % | <= 15 | <= 15 | <= 15 | EN 12311-2 |



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CSTB-0679-001

| PROPERTIES | REQUIREMENTS ETAG 006 | UNIT | TYPE | | | STANDARD |
|--|--------------------------|------|-------------------|-------------------|-------------------|-------------|
| | | | 35076 | 35176 | 35276 | |
| 6.2.3.8 RESISTANCE TO STATIC LOADING AND IMPACT LOADING | | | | | | |
| STATIC LOADING | MLV | kg | ≥ 20 | ≥ 20 | ≥ 20 | EN 12730 |
| IMPACT LOADING | MLV | mm | ≤ 10 | ≤ 10 | ≤ 10 | EN 12691 |
| 6.2.4.1 SLIPPERINESS | | | | | | |
| | MDV | | NPD | NPD | NPD | SS 92 35 15 |
| 6.2.7.1 PEEL RESISTANCE AFTER LONG TERM EXPOSURE TO HEAT (EN 1296) | | | | | | |
| | MLV | % | $\Delta \leq -20$ | $\Delta \leq -20$ | $\Delta \leq -20$ | EN 12316-2 |
| 6.2.7.2 SHEAR RESISTANCE AFTER LONG TERM EXPOSURE TO HEAT (1296) | | | | | | |
| | MLV | % | $\Delta \leq -20$ | $\Delta \leq -20$ | $\Delta \leq -20$ | EN 12317-2 |
| 6.2.7.4 RESISTANCE TO COLD BENDING/FOLDING AFTER LONG TERM EXPOSURE TO HEAT, UV | | | | | | |
| HEAT AGEING (EN 1296) | MLV | °C | $\Delta \leq -15$ | $\Delta \leq -15$ | $\Delta \leq -15$ | EN 495-5 |
| UV AGEING (TR010) | MLV | °C | $\Delta \leq -15$ | $\Delta \leq -15$ | $\Delta \leq -15$ | EN 495-5 |
| 6.2.7.5 DIMENSIONAL STABILITY | | | | | | |
| | MLV | % | $\leq 0,6$ | $\leq 0,6$ | $\leq 0,6$ | EN 1107-2 |



CSTB:0679



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(English translation, the original version is in French)

In compliance with the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Members States relating to the construction products (Construction Products Directive – CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the construction product:

ALKORPLAN® F

Systems of mechanically fastened flexible roof waterproofing membranes

Use category:

Waterproofing of roof surfaces against penetration of atmospheric water

placed on the European economic area market by:

RENOLIT BELGIUM NV

Industriepark de Bruwaan 9 – 9700 Oudenaarde - BELGIQUE

and produced in the factory:

RENOLIT IBERICA SA - Carratera del Montnegre, s/n – 08470 SANT CELONI - ESPAGNE

was submitted by the manufacturer to the initial type-testing for the relevant characteristics of the product, is submitted by the manufacturer to a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan and that the approved body – CSTB – has performed the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control (system 2+).

This certificate attests that all provisions concerning the attestation of conformity of factory production control described in the technical specification in reference:

«European Technical Approval ETA-06/0023 valid from 12/04/2006 to 11/04/2011»

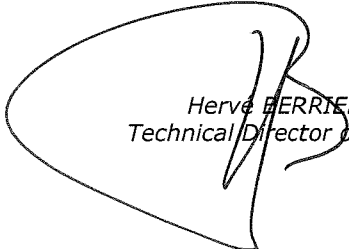
are applied.

This certificate can only be used in conjunction with the declaration of conformity of the product written by the manufacturer or his authorised representative established in the European economic area and with the technical specification in reference.

This certificate is first issued on 31 August 2006 and, except for withdrawal or suspension, remains valid as long as the conditions laid down in the corresponding technical specification in reference or the manufacturing conditions in the factory or the factory production control itself are not modified significantly and latest on 11 April 2011.

The list of the conformity certificates issued by CSTB is kept up-to-date by the CSTB.

Issued in Champs on Marne, on 31 August 2006


Hervé BERRIER,
Technical Director of CSTB