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BS EN 13707 0679-CPD-0128

ETAG n° 006 0679-CPD-0166 n° ETA-06/0026
0679-CPD-0163 n° ETA-06/0030

*Prepared*
20/02/2007
*Cancels and replaces*
16/02/2003
***Code :***
**1716XXX**
*Manufacture source*
*Courchelettes (Fr-59)*
***Technical ref:***
*FT AXTER*

# PRODUCT DATA SHEET

n° of certification organisation: 0679
Year mark was 1st fixed : 2006

## EXCELFLEX FE

### DESCRIPTION

*EXCELFLEX FE is a stabilised polyester reinforced polymer modified bituminous, Alpa®-mix FE (fire treated), waterproofing membrane. Its surface is finished in mineral slate chippings or granules and the minimum selvedge width is 12cm.*

### USE

*Single layer cap sheet mechanically fixed along the selvedge for inaccessible roofs, with laps sealed by hot air or torch.*

### APPLICATION METHOD

*Hot air or torch application.*

### STORAGE

*Rolls to be stored upright and away from heat.*

### COMPOSITION

*(indicative)*

| | | |
|---|---|---|
| *Reinforcement (gm/m²) :* | Stabilised polyester | 250 |
| *Binder (gm/m²) :* | Alpa®-mix FE | 3,400 |
| *Surface finish (gm/m²) :* | Mineral slates | 1,000 |
| | or granules | 1,200 |
| *Under surface finish (gm/m²) :* | Thermofusible film | 10 |

### CHARACTERISTICS

| | | | STANDARD(BS) | UNITS | VALUES | Tolerance Min | Tolerance Max |
|---|---|---|---|---|---|---|---|
| Dimensions | | Length | EN 1848-1 | m | 8 | 0% | |
| | | Width | | m | 1 | -1% | |
| | | Straightness | | - | Pass | | |
| | | Nominal roll weight | | kg | 43.4 | | |
| | | Thickness (on finished product) | EN 1849-1 | mm | 4.2 | 4.00 | 4.40 |
| Visible defects | | New product | EN 1850-1 | - | None | | |
| | | After ageing to EN 1297 | | - | NA | | |
| Adhesion of granules | | | EN 12039 | % | 15 | 0 | 30 |
| Resistance to tearing (nail shank) | | Longitudinal | EN 12310-1 | N | 600 | 160 | 1040 |
| | | Cross direction | | | 600 | 180 | 1020 |
| Tensile properties : maximum tensile force | | Longitudinal | EN 12311-1 | N/50 mm | 990 | 500 | 1480 |
| | | Cross direction | | | 890 | 500 | 1280 |
| Tensile properties : elongation | | Longitudinal | EN 12311-1 | % | 30 | 15 | 45 |
| | | Cross direction | | | 30 | 15 | 45 |
| Peel resistance of joint | Maximum force | Selvedge | EN 12316-1 | N/50mm | 150 | 100 | 200 |
| | | End joint | | | | | |
| | Average force | Selvedge | | | 120 | 70 | 170 |
| | | End joint | | | | | |
| Shear resistance of joint | Maximum force | Selvedge | EN 12317-1 | N/50mm | 990 | 500 | 1040 |
| | | End joint | | | 890 | 500 | 1020 |
| Flexibility at low temperature | Surface | | EN 1109 | °C | in progress | ≤ | |
| | Under surface | | | | in progress | ≤ | |
| Flow resistance at elevated temperature | | New product | EN 1110 | °C | 140 | ≥ | |
| | | After ageing to EN 1296 | | | 130 | 120 | 140 |
| Resistance to impact | | | EN 12691 | mm | 20 | ≤ | |
| Resistance to static loading | | | EN 12730 (A) | kg | 20 | ≥ | |
| Dimensional stability | | | EN 1107-1 | % | 0.3 | ≤ | |
| Form stability under cyclic temperature change | | | EN 1108 | % | NA | | |
| Water vapour transmission properties | | New product | EN 1931 | - | μ=20000 | | |
| | | After ageing to EN 1296 | | - | NA | | |
| Watertightness | | New product | EN 1928 | - | Pass | <10 kPa | |
| | | After ageing to EN 1296 | | - | NA | | |
| Watertightness after stretching at low temperature | | | EN 13897 | % | NA | | |
| Reaction to fire | | | EN 13501-1 | - | E | | |
| Resistance to root penetration | | | EN 13948 | - | NA | | |
| Dangerous substances consult : http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm | | | - | - | None | | |

NA=not applicable due to use of product.