

# PRODUCT DATA SHEET

n° of certification organisation: 0679  
Year mark was 1<sup>st</sup> fixed : 2006

## HYRENE (HYRANGER) 30

Technical ref:

AT HYRANGER

### DESCRIPTION

HYRANGER 30 is a glass-fibre reinforced SBS elastomeric modified bituminous waterproofing membrane. Its surface is finished with coloured mineral chippings or ceramic granules. Minimum selvedge width is 6cm.

### USE

Cap sheet for use in multi-layer waterproofing systems. Part of the HYRANGER and HYRANGER TS waterproofing system for flat roofs.

### APPLICATION METHOD

Torched.

### STORAGE

Rolls to be stored upright and away from heat.

### COMPOSITION (indicative)

|   |                               |                |
|---|-------------------------------|----------------|
| Reinforcement (gm/m <sup>2</sup> ) :        | Glass-fibre                   | 50             |
| Binder (gm/m <sup>2</sup> ) :               | SBS elastomer                 | 2,140          |
| Surface finish (gm/m <sup>2</sup> ) :       | Mineral slates<br>or granules | 1,000<br>1,200 |
| Under surface finish (gm/m <sup>2</sup> ) : | Sand                          | 300            |

### CHARACTERISTICS

|  | STANDARD(BS) | UNITS                   | VALUES      | Tolerance |         |   |
|--|--------------|-------------------------|-------------|-----------|---------|---|
|  |              |                         |             | Min       | Max     |   |
| Dimensions   | EN 1848-1    | Length                  | 10          | -1%       |         |   |
|  |              | Width                   | 1           | -1%       |         |   |
|  |              | Straightness            | Pass        |           |         |   |
|  |              | Nominal roll weight     | 39.3        |           |         |   |
|  | EN 1849-1    | Thickness (selvedge)    | 2.30        | 2.15      | 2.50    |   |
|  |              | Visible defects         | New product | -         | None    |   |
|  | EN 1850-1    | After ageing to EN 1297 | -           | NA        |         |   |
| Adhesion of granules                               | EN 12039     | %                       | 15          | 0         | 30      |   |
| Resistance to tearing (nail shank)                 | EN 12310-1   | Longitudinal            | NA          | -         | -       |   |
|  |              | Cross direction         | NA          | -         | -       |   |
| Tensile properties : maximum tensile force         | EN 12311-1   | Longitudinal            | 250         | 200       | 500     |   |
|  |              | Cross direction         | 150         | 120       | 280     |   |
| Tensile properties : elongation                    | EN 12311-1   | Longitudinal            | 3           | 2         | 4       |   |
|  |              | Cross direction         | 3           | 2         | 4       |   |
| Peel resistance of joint                           | EN 12316-1   | Maximum force           | Selvedge    | NA        | -       | - |
|  |              |                         | End joint   | NA        | -       | - |
|  |              | Average force           | Selvedge    | NA        | -       | - |
|  |              |                         | End joint   | NA        | -       | - |
| Shear resistance of joint                          | EN 12317-1   | Maximum force           | Selvedge    | NA        | -       | - |
|  |              |                         | End joint   | NA        | -       | - |
| Flexibility at low temperature                     | EN 1109      | Surface                 | -16         | ≤         |         |   |
|  |              | Under surface           | -16         | ≤         |         |   |
| Flow resistance at elevated temperature            | EN 1110      | New product             | 100         | ≥         |         |   |
|  |              | After ageing to EN 1296 | 110         | 100       | 120     |   |
| Resistance to impact                               | EN 12691     | mm                      | NA          | ≤         |         |   |
| Resistance to static loading                       | EN 12730 (A) | kg                      | NA          | ≥         |         |   |
| Dimensional stability                              | EN 1107-1    | %                       | 0.1         | ≤         |         |   |
| Form stability under cyclic temperature change     | EN 1108      | %                       | NA          |           |         |   |
| Water vapour transmission properties               | EN 1931      | New product             | -           | μ=20000   |         |   |
|  |              | After ageing to EN 1296 | -           | NA        |         |   |
| Watertightness                                     | EN 1928      | New product             | -           | Pass      | <10 kPa |   |
|  |              | After ageing to EN 1296 | -           | NA        |         |   |
| Watertightness after stretching at low temperature | EN 13897     | %                       | NA          |           |         |   |
| Reaction to fire                                   | EN 13501-1   | -                       | F           |           |         |   |
| Resistance to root penetration                     | EN 13948     | -                       | NA          |           |         |   |
| Dangerous substances consult :                     | -            | -                       | None        |           |         |   |

http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm  
NA=not applicable due to use of product.

The manufacturer reserves the right to modify, at any time, the characteristics of its products.