

STIFERENE N300

Senza pelle - scanalato

DESCRIPTION

STIFERITE N300 senza pelle -scanalato is an insulation board of extruded polystyrene without skin.

MAIN APPLICATIONS

Insulation of roofs
Insulation of floors
Insulation of walls

GUIDELINE FOR DRAFTING OF TECHNICAL SPECIFICATIONS*

Thermal insulation **STIFERENE N300 senza pelle - scanalato** in extruded polystyrene (XPS) of thickness...(*) has:

Declared thermal conductivity: $\lambda_D = \dots$ **W/mK (EN 13164)**
Compressive strength: **minimum value = ... kPa (EN 826)**
Water vapour diffusion resistance factor: $\mu = 80-100$ **(EN 12086)**
Water absorptin by total immersion: **WL < 0.7 % (EN 12087)**
Water absorptin by diffusion: **WD = 5.0 % (EN 12088)**
Euroclass reaction to fire: **E (EN 11925-2)**

Product of Company certified according to UNI EN ISO 9001:2000 specifications, with CE conformity mark on the whole range.

(*) Not stated parameters change according to thickness. For introducing the values corresponding to the used thickness, please use the specifications indicated on this technical sheet.

Characteristics and performances

Isolamento Termico

| Characteristics [Standard] | Description | Symbol [Units] | Value | | | | | | | | | | |
|--|---|---------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
| | | | Some characteristics depend on the thickness (mm) | | | | | | | | | | |
| | | | - | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 | |
| Declared thermal conductivity [UNI EN 13165 annex A e C] | Value determinad at 10 °C Thickness from 30 to 50 mm | λ_D [W/mk] | 0,034 | | | | | | | | | | |
| Declared thermal conductivity [UNI EN 13165 annex A e C] | Value determinad at 10 °C Thickness from 60 to 120mm | λ_D [W/mk] | 0,036 | | | | | | | | | | |
| Declared thermal trasmittance | $U_D = \lambda_D / d$ | U_D [W/m ² K] | - | 1.13 | 0.85 | 0.72 | 0.60 | 0.51 | 0.45 | 0.40 | 0.36 | 0.30 | |
| Declared thermal resistance | $R_D = d / \lambda_D$ | R_D [m ² KW] | - | 0.88 | 1.18 | 1.39 | 1.67 | 1.94 | 2.22 | 2.50 | 2.78 | 3.33 | |
| Compressive strenght [EN 826] | Value determinad at 10% deformation | $\sigma_{10} \sigma_m$ [kPa] | - | 200 | 200 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | |

For other characteristics see back →

| | | | |
|----------------------|---|-------------------|--|
| Other information | To obtain further technical data call green number 800840012 | | |
| Technical data sheet | Stiferite STIFERENE N300 senza pelle - scanalato | Rev. 3 31/03/2008 | Author: F. Raggiotto Verified: L. Tolin |

Technical data sheet

STIFERENE N300
Without skin

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Characteristics and performances

| Characteristics [Standard] | Description | Symbol [Units] | Value | | | | | | | | | |
|--|---|------------------------|---|----|----|----|----|----|----|----|-----|-----|
| | | | Some characteristics depend on the thickness (mm) | | | | | | | | | |
| | | | - | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 120 |
| Dimensional stability under specified temperature and umidity [EN 1604] | 48h (±1) a 23°C (±2) e 90% UR (±5) | DS(TH) [% dimensions] | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | [% thickness] | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Dimensional stability under specified compressive load and temperature condition [EN 1605] | 40kPa Temp. (70±1)° C Time (168±1)h | DLT(2)5 [% dimensions] | - | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Nominal thickness [EN 823] | | d _N [mm] | production from 30 to 120 mm | | | | | | | | | |
| Euroclass reaction to fire [EN 13501-1] [EN 11925 -2] [EN 13823 (SBI)] | Class | Euroclass | E | | | | | | | | | |
| Water vapor diffusion resistance factor [EN 12086] | Value | μ (MU) | 80-100 | | | | | | | | | |
| Water absorption by diffusion [EN 12088] | Value | WD(V) [%] Thick. 50 mm | 5 | | | | | | | | | |
| | | WD(V) [%] Thick.100 mm | 5 | | | | | | | | | |
| Water absorption by total immersion [EN 12087] | Total immersion for 28 days | WL [%] | Less then 0.7% _w | | | | | | | | | |

Tolerances and notes

| Tolerances [UNI EN 13165] | Thickness | T1 [mm] | <50 ±2 mm | | from 50 to 120 +3/-2 mm | | >120 +8 /-2 mm | |
|---------------------------|------------------------------|---|--------------|--------------------------|--------------------------|---------------|----------------|--|
| | Dimensions | | < 1000 ±8 mm | from 1000 to 2000 ±10 mm | from 2000 to 4000 ±10 mm | > 4000 ±10 mm | | |
| Notes | stability to the temperature | The limit temperature in use for the board is between -50° C and +75° C | | | | | | |

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|----------------------|---|-------------------|----------------------|--------------------|
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