



Strength after lorries running : residual mechanical strength > 85%.*
Junction strength to give the reinforcing capacity, and good stress distribution.
Wide open mesh to get a good bond of the asphalt, especially at the overlaps.

TECHNICAL DATA SHEET

CIDEX[®] 100 SB

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Construction (tolerances : ± 10 %)

Mesh (Opening between axle) : **40 mm x 40 mm**

Total weight : **400 g/m²** (Mode of Operation: from Chomarat Textiles Industries, MO 302/03)

<u>Grid</u>	<u>Non-woven</u>
Glass fibre + Binder (Styren Butadien type**) : 383 g/m ²	Synthetic fibre : 17 g/m ²
Thickness (indicative value) : 1.4 mm (Mode of Operation : from Chomarat Textiles Industries, MO 302/03)	

Properties: values + or – 5% according the standard **ISO 10319** (Mode of Operation from Chomarat Textiles Industries 302/13)

Mechanical strength	<u>At break</u>	<u>at 1% elongation</u>	<u>at 2% elongation</u>
Long direction	100 KN/m	>32 KN/m	> 66 KN/m
Cross direction	100 KN/m	>32 KN/m	> 66 KN/m

Elongation	<u>at break</u>	Junction Strength of transversal and longitudinal yarns, according to GRI-GG2 (USA Aashto 4E-SR): 110 KN/junction.
Long direction	< 3% + 0.5%	
Cross direction	< 3% + 0.5%	

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Important: Impregnation capacity of tack coat usually applied: **600 g/m²** of residual bitumen. This quantity has to be adapted regarding the characteristics of the support layer. The bond must be checked by the end user.

Remarks

- Intended uses: Reinforcement – Stress relief – Interlayer barrier.
- A couple of weeks of exposure after installation (EN 15381 annexe B).
- Bitumen retention (EN 15381 annex C) : 120 g/m², therefore 500 g/m² to bond the asphalt layers.
- Melting point: resin: 200 °C – Polyester fibres: 220 °C – glass fibres: 1500 °C with mechanical weakness starting at 400 °C.
- In case of use onto a new cement support, use a bituminous tack coat before applying the grid.
- * Tis test consists to simulate the running of a lorry wheel. The LCP rutting apparatus is used., with a wheel weight of 6 tons. A to and fro movement is applied according the standard rutting test. The grid is fixed with a tape onto a smooth asphalt. The result is the residual strenght given after 500 loads.
- ** Our SBR resin has been developed to give the high elasticity modulus of the grid (>35 000 MPa measured), and has been optimized in order to protect the glass fibers against the mechanical stress during installation and its use at long term (cf RGRA 890 from January 2011).

The grid is produced under the quality management system certified ISO 9001.

[®] Cidex is a brand name of 6D Solutions.

In addition, as the mechanical constraints applied to the grid, the conditions of application, the quality of the associated materials are beyond our control, this information are valid up to the delivery of the grid and cannot be construed in any way as a warrant after the delivery.