ROAD MESH® LB
ASPHALT PAVEMENT REINFORCEMENT MESH

Road Mesh® LB is CE and UKCA Marked in compliance with EN 15381:2008.

Road Mesh® LB is a unique bi-directional heavy-duty bound layer reinforcement, used in pavement structures. Road Mesh® LB has a three dimensional structure enabling the bound layer material to envelop each continuous wire strand, ensuring interlock and therefore optimum and immediate load transfer from the aggregate to the reinforcement.

Road Mesh® LB is typically used in road maintenance and new road construction, where conditions are less favourable, and therefore traditional remedial or design solutions are no longer viable. Road Mesh® LB is more commonly installed at the base of bound layers, typically where the layer's tensile stresses are higher. The Road Mesh® LB absorbs and ultimately reduces the peak tensile stresses caused by the presence of reflected cracks and/or traffic loads.

Steel wire mesh
The double twisted 8x10 steel wire mesh used in Road Mesh® LB has mechanical characteristics as per EN 10223-3:2013.

A transverse steel rod is woven into the mesh at approx. 16 cm intervals. Road Mesh® LB is manufactured in 25 to 50 meter long rolls, which are 2, 3 or 4 m wide.
The nominal tensile strength MD/CD of the mesh should be of 40/50 kN/m (Tab. 2); tests performed in compliance with EN 15381, annex D.

Wire
The wire used in the production of Road Mesh® LB is steel wire with heavy zinc coating. The mesh/wire combinations are indicated in Table 2.
Tests on the wire must be performed prior to manufacturing the mesh.

1. **Tensile strength:** the wire used to manufacture Road Mesh shall have a tensile strength between 350-550 N/mm^2 as per EN10223-3:2013. Wire tolerances (Table 3) are in accordance with EN10218 (Class T1).
2. **Elongation:** Elongation shall not be less than 8%, according to EN10223-3:2013.
3. **Zinc coating:** minimum quantities of Zinc shown at Table 3 meet the requirements of EN10244-2 (Table 2, Class A).
4. **Adhesion of Zinc:** the adhesion of the Zinc coating must be in accordance with EN 10244.

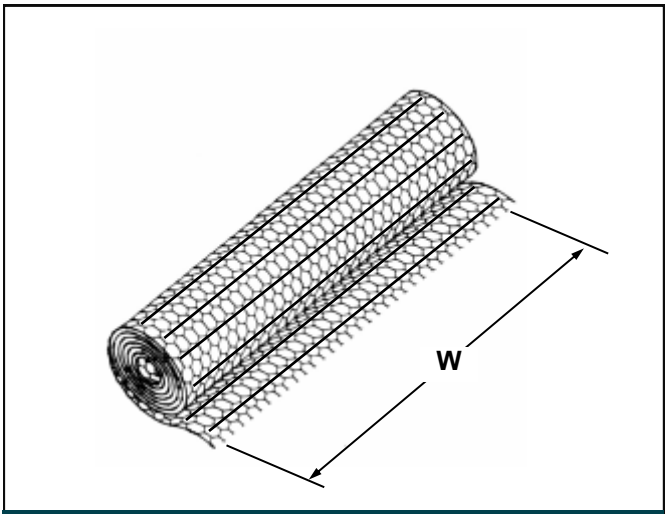

Figure 1

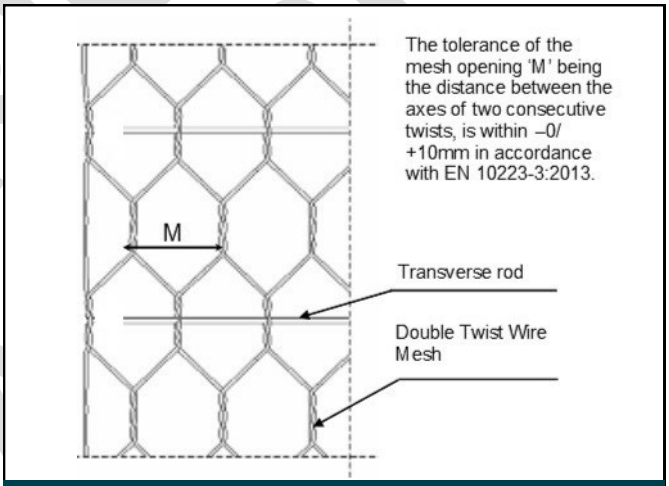

Figure 2

Figure 3: Road Mesh reinforces the asphalt layers

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1. Table of roll sizes for Road Mesh®	
L=Length (m)	W=width (m)
25—50	2 - 3 - 4

All sizes and dimensions are nominal.
Tolerances of –0 +1% of the length and ±M of the width shall be permitted.

Table 2: Road Mesh product specifications			
Road Mesh Type	Wire diam. (mm)	Transverse Rod (mm)	UTS * (kN/m) Long./Transv.
8x10	2.40	4.90	40 / 50

* **UTS** = Ultimate Tensile Strength (EN 15381)

Quantity Request

When requesting a quote, please specify:
- quantity each size,
- size of units (Width x Length)

Example: No.100 Rolls Road Mesh® LB 4 m x 25 m

Table 3: Standard wire diameter				
		Mesh wire	Selvedge wire	Transverse Rod
Wire diameter	ø mm	2.4	3.0	4.90
Wire tolerance	(±) ø mm	0.06	0.07	0.08
Min. quantity of coating	gr/m^2	230	255	280

Figure 4: Asphalt compaction


Figure 5: Installed Road Mesh

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