

# **BI-STEEL**

### PURPOSE OF USE

Bi-steel is a ladder-type welded mesh that is used for reinforcing the masonry as a bed joint reinforcement. The product conforms to the EU directive for construction products (89/106/EEC) and meets to the requirements of European harmonized standard EN-845-3:2005+A1:2008.

Dimensions	<b>Type Bi 40</b> (uncoated steel)	<b>Type Bi 40 Zn</b> (zinc coated steel)	<b>Type Bi 37 Rv</b> (stainless steel)
Length	4000 mm	4000 mm	4000 mm
Width	31 mm	31 mm	30 mm
Profile height	4 mm	4 mm	3.65 mm
Wire diameter	4 mm	4 mm	3.65 mm
Pitch of cross-wires	100 mm	100 mm	100 mm

## BRICKWORK REINFORCEMENT



- 1. The first couple of brick rows should be reinforced along the whole perimetre of the building.
- 2. The window openings should be reinforced above and under the opening.
- In case of larger openings, some brick rows above the openings should be additionally reinforced.
- ditionally reinforced.
  In other higher places (transitions to different planes), 2–3 brick rows should be reinforced.

## **BLOCKMASONRY REINFORCEMENT**



The block row above and below the lintel should be always reinforced.



The masonry should be laid with minimum reinforcement: one reinforced joint per one metre wall height.

When reinforcing the corners, the inner wire should be cut off and bent according to the corner.

The reinforcement has to be fully submerged into the mortar.



In laying a wall thicker than 150 mm and in laying against air gaps, one reinforcement should be used in each mortar bed. To avoid occurrence of heat bridge in external walls, the masonry should be laid with an air gap and bi-steel should be used in both mortar beds.



Overlapping when jointing min 300 mm





#### CE marking is mandatory

