

Internal window bars

The following should be taking into account when specifying internal window bars:

Materials

- bars of mild steel or iron not less than 20mm in diameter or section (square section is stronger). More security can be obtained by using higher grade steel or by increasing the thickness of the metal.
- flat mild steel cross ties (minimum size 50mm x 10mm).

Construction

- bars to be placed at 100mm centres and grouted into brickwork at top and bottom to a depth of not less than 100mm.
- bars to pass through cross ties which are cut, splayed and grouted into the brickwork. Points of intersection between the cross ties and bars should be securely welded. Distance between the tie bars should not exceed 300mm.

Security note

- bars may be welded top and bottom to a 50mm x 50mm angle-iron frame with crossties fitted as described and welded to the sides. The complete unit should then be secured to the brickwork by rawlbolts.