

# Brickforce

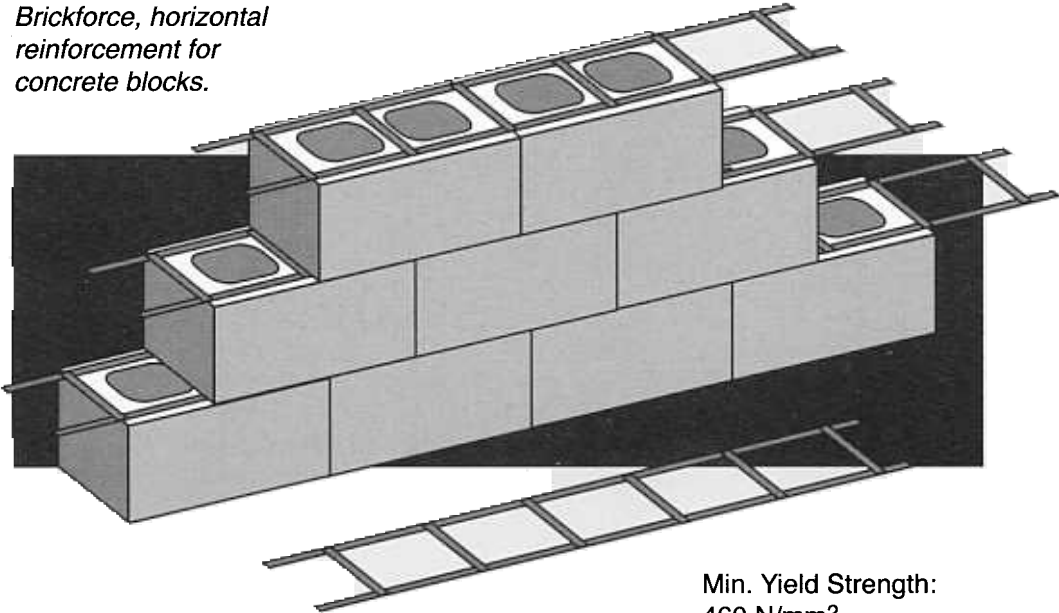


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# Brickwork & Concrete Block Reinforcement

Electrically welded ladder reinforcement for masonry walls.  
Produced from Hard Drawn Galvanised Steel Wire to BS 4482:1985. Galvanised wire finish to BS 443:1982. Supplied in straight lengths of 3.2m and available in widths of: 50,100,150 & 225mm.

*Brickforce, horizontal reinforcement for concrete blocks.*



## Technical Data

Minimum Tensile Strength: 510 N/mm<sup>2</sup>  
Minimum Yield Strength: 460 N/mm<sup>2</sup>  
Main Wire Dia.: 3.58 mm and flattened  
Cross Wire Dia.: 2.5mm at 200 mm centres

Min. Yield Strength:  
460 N/mm<sup>2</sup>

Min. Tensile Strength:  
510 N/mm<sup>2</sup>

BK 50 for 4" Blocks  
BK 100 for 6" Blocks  
BK 150 for 8" Blocks  
BK 225 for 12" Blocks

## Advantages

- 1) Distributes loading on walls
- 2) Controls cracking due to shrinkage, thermal and settlement effects.
- 3) Withstands considerable horizontal pressure, that is, against  
(a) wind (b) soil and/or water loading against walls, thereby allowing reduction in the thickness of wall required.

- 4) Bonds blocks together in mortar bed.
- 5) Brickforce reinforced walls can be designed to span horizontally between columns, piers, (stairwells), or support systems, resulting in substantial reduction in the thickness of wall required with attendant savings in labour and materials.

Virtually all masonry systems, concrete block, stonework and brickwork, in single skin or cavity walls can be reinforced to produce significant economies, especially where horizontal pressures must be accommodated.

### **Easy to use**

- 1) Supplied in strips (3.2m) for ease of handling
- 2) Lies readily in the mortar joints
- 3) Easy to transport

There is no quicker way to reinforce a block wall than with the use of BRC Brickforce. The strips are easy to handle, manipulate or cut, thereby saving considerable labour, time and money.

The widths of Brickforce are designed to allow the minimum necessary mortar cover for the regular width of blocks, the outer wires being held in position by the cross wires.

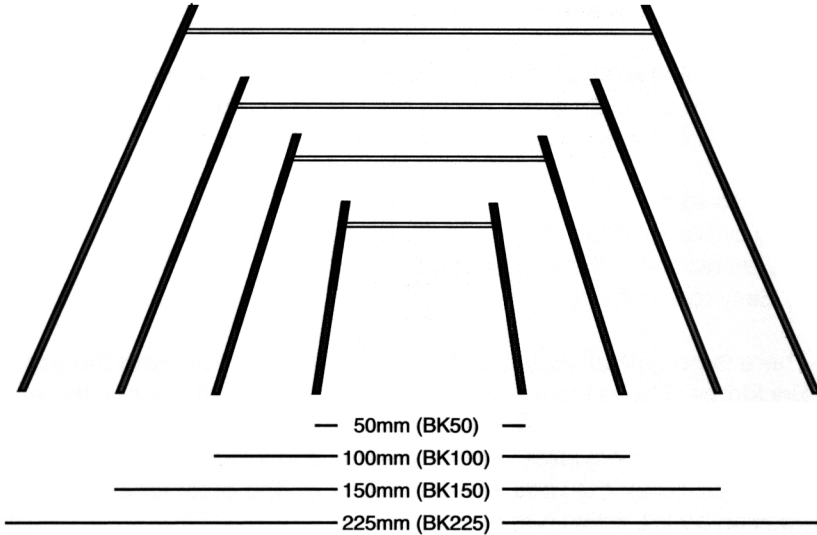
### **Economical**

- 1) Quick and easy - therefore time saving and cost effective
- 2) Allows a reduction in wall thickness required, thereby saving in materials and labour
- 3) Galvanised wire finish for corrosion resistance - increasing its effective life span
- 4) Less than 1% of total building costs will be spent in Brickforce
- 5) With its strength between supports considerable savings can be achieved in reducing foundation size

It is often more economical to reinforce a wall to resist horizontal pressures than providing alternative structural solutions. Although the area of the main wires of BRC Brickforce is identical for all sizes, the centres of these wires have been varied to suit different thicknesses of Brick or Blockwork. Thus the reinforcement is used to the maximum advantage.

# BRC Galvanised Brickforce

BRC Brickforce - in 4 widths



BRC Ref. No.	Normal wall Thickness (mm)	Overall Brickforce Width (mm)	Length of Strip (m)	Weight (kg/strip)
BK50	100 (4")	50	3.20	0.54
BK100	150 (6")	100	3.20	0.57
BK 150	200 (8")	150	3.20	0.60
BK 225	300 (12")	225	3.20	0.66

## Properties of available wire size

	Nominal Main Wire Dia. (mm)	Nominal Area (mm <sup>2</sup> )	Minimum Yield Point (N/mm <sup>2</sup> )	Nominal Cross Wire Dia. (mm)
Standard	3.58	10.07	460	2.50

## Effective steel area per foot of wall height provided:

Standard		A <sub>s</sub> /ft (mm <sup>2</sup> )
	16" O.C.	14.85
	8" O.C.	30.32