

## Assessments/characteristic strengths – Wire and Strip Ties

<b>BW4/200</b>		<b>DD140: Part 2 1987 type 4 requirement</b>	<b>Catnic BW4/200</b>
Tensile	At serviceability	150	505
Load (N)	At failure	650	1333
Compressive	At serviceability	120	625
Load (N)	At failure	450	677
<b>BW4/225</b>		<b>DD140 Part 2 1987 type 4 requirement</b>	<b>Catnic BW4/225</b>
Tensile	At serviceability	150	464
Load (N)	At failure	650	1326
Compressive	At serviceability	120	462
Load (N)	At failure	450	499
<b>BW2/200</b>		<b>DD140 Part 2 1987 type 2 requirement</b>	<b>Catnic BW2/200</b>
Tensile	At serviceability	500	603
Load (N)	At failure	1800	1935
Compressive	At serviceability	400	1184
Load (N)	At failure	1300	1605
<b>BW2/225</b>		<b>DD140 Part 2 1987 type 2 requirement</b>	<b>Catnic BW2/225</b>
Tensile	At serviceability	500	675
Load (N)	At failure	1800	1834
Compressive	At serviceability	400	942
Load (N)	At failure	1300	1569
<b>BB-2</b>		<b>DD140 Part 2 1987 type 2 requirement</b>	<b>Catnic BB-2</b>
Tensile	At serviceability	500	1321
Load (N)	At failure	1800	3183
Compressive	At serviceability	400	552
Load (N)	At failure	1300	1300
<b>BB-3</b>		<b>DD140 Part 2 1987 type 2 requirement</b>	<b>Catnic BB-3</b>
Tensile	At serviceability	500	1529
Load (N)	At failure	1800	4051
Compressive	At serviceability	400	1540
Load (N)	At failure	1300	2374

## Stainless Steel Strip Ties

### Material

Manufactured from 0.6mm and 0.8mm austenitic stainless steel to BSEN10088-2-1.4301 (18/8) for proven corrosion resistance.

### BBA Assessment



Certificate No. 91/2690.  
(BB-2 & BT2-4)

### Application

**BB-2 stainless steel strip ties** are designed for fixing masonry to masonry in cavity walls of domestic houses and small commercial buildings up to three storeys in height not exceeding 15 metres. The ties are suitable for cavity widths of 50mm when installed at a density of 2.47 ties per square metre (450mm vertical, 900mm horizontal spacing).

**BB-3 stainless steel strip ties** are designed for fixing masonry to masonry in cavity walls of domestic houses and small commercial buildings up to five storeys but not exceeding 15 metres in height. The ties are suitable for cavity widths of 75mm when installed at a density of 2.47 ties per square metre. The BB-3 has been BRE assessed for the above application.

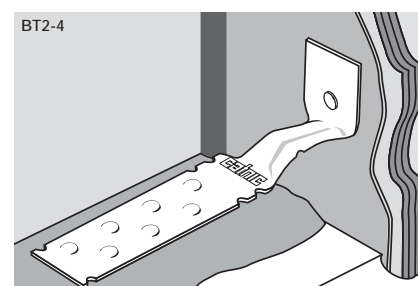
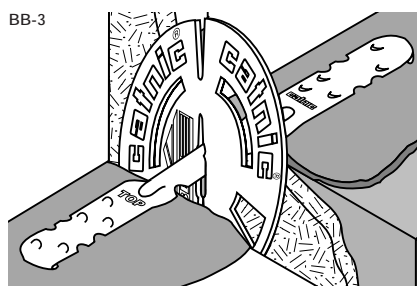
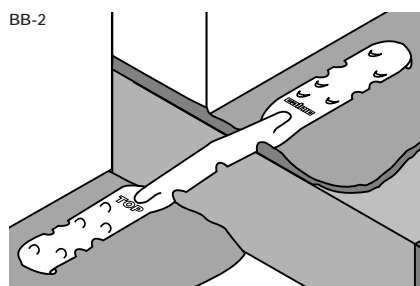
**BT2-4 stainless steel strip ties** are designed for fixing masonry to timber framing in dwellings of up to 4 storeys, up to a maximum height of 12 metres. Suitable for cavity widths of 50mm. The ties are sufficiently flexible so as not to cause cavity growth as a result of the reduction of moisture content in the timber and settlement of the frame structure. For tie densities and height restrictions, refer to the following BBA certificates: 4 storey dwellings, Cert No. 91/2690 detail sheet 6; 2 storey dwellings, Cert No. 91/2690 detail sheet 3.

BT2-4 ties are supplied with stainless steel annular ring 50 x 3.35mm nails.

**Product Ref. BB-2 BB-3 BT2-4**

### Stainless Steel Strip Ties

Cavity (mm)	Design	Tie Size (mm)	Specify	DD140: Part 2 Classification	Design Wind Speed
50	3 storeys up to 15m	0.6 x 19 x 191	BB-2	Type 2	Anywhere in UK up to 56m/s
75	5 storeys up to 15m	0.8 x 19 x 220	BB-3	Type 2	Anywhere in UK up to 56m/s
50	Timber frame 4 storeys up to 12m	0.6 x 19 x 120	BT2-4		Anywhere in UK up to 50m/s



## Insulation Retainers

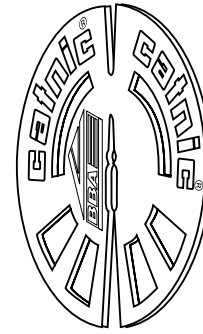
### Universal IRC 85

Universal IRC 85 Insulation Retainers are designed for retaining rigid board or mineral wool/fibre insulation material. Intended for use with **Catnic** wire and strip ties, the IRC 85 may also be used in conjunction with BS 1243 double triangle ties. Used in a cavity with a minimum of 25mm insulation.

retainers should be clipped onto the ties and the flat face of the disc pushed against the surface of the insulation.

#### Material

Injection moulded polypropylene, orange in colour, 85mm in diameter. Each clip bears the **Catnic** logo and the BBA Certificate number.



Universal IRC 85

BBA  
Assessment  
  
Certificate  
No. 91/2690

## References from DD140: Part 2: 1987

### Classification by end use.

#### Type 2 Masonry: General purpose

##### Type of structure & frequency of use

Suitable for masonry cavity walls of domestic houses and small commercial buildings up to three storeys, i.e. not greater than 15m in height, comprising two leaves of brick or blockwork of similar thickness in the range 90mm to 150mm. May be suitable for cavity walls having leaves of disparate thickness or stiffness or for cladding walls in high rise buildings, but should only be used in these situations if shown to be of adequate performance by calculation. Density not less than 2.5 ties per square metre.

##### Geographical location

Suitable for buildings anywhere in the British Isles, i.e. where the basic wind speed may be up to 56m/s.

#### Type 4 Masonry: Light Duty

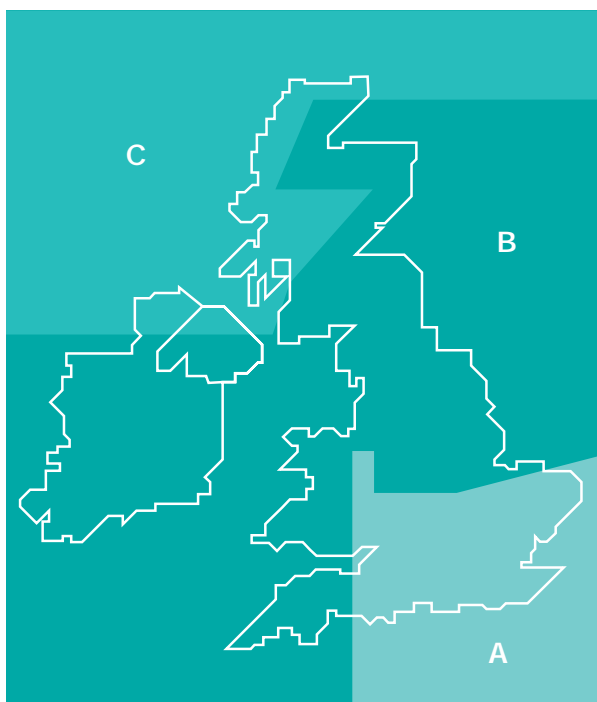
##### Type of structure & frequency of use

Suitable only for masonry cavity walls, comprising two leaves of similar thickness in the range 90mm to 150mm, in box form domestic dwellings of up to two storeys and no greater than 10m in height. Not suitable for cavity walls having leaves of disparate thickness or stiffness, for cladding walls of any type or for multi-storey structures of more than two storeys. Density not less than 2.5 ties per square metre.

##### Geographical location

Suitable for buildings anywhere in England where the basic wind speed does not exceed 44m/s or for buildings on town or city sites in areas where the basic speed does not exceed 52m/s.

### Wind Zones



- A = Basic wind speed  $\leq 44\text{m/s}$
- B = Basic wind speed  $> 44\text{m/s} \leq 52\text{m/s}$
- C = Basic wind speed  $> 52\text{m/s}$