

**EC Declaration of Performance
Bricktie®**

**CUSTOMER
INFORMATION**

1. Unique identification code of the product: **Bricktie®**
with different material coating references and widths - product types see table 1.
2. Type- and traceability info, allowing identification of the construction product as required pursuant to Article 11(4): is provided on the product packaging and product label.
3. Intended use of the construction product in accordance with EN 845-3: 2012 and EN 845-1:2012
Welded wire meshwork bed joint reinforcement for **structural uses** in wall and partitions as covered in the scope of EN845-3: 2012. **Masonry wall tie** for connecting two leaves of collar joint masonry walls in the scope of EN845-1: 2012.
4. Name, registered trade name and contact address of the manufacturer as required pursuant to Article 11(5): **NV BEKAERT SA** Bekaertstraat 2, B-8550 Zwevegem, Belgium.
5. Not applicable.
6. System of assessment and verification of constancy of performance of the construction product:
System n°3
7. Notified Labs:
 - WTCB, registration nr: 1136 / B-1000 Brussel, Lombardstraat 42,
 - TSUS, registration nr: 1301. Studená 3, 821 04 Bratislava, Slovak Republic,
 - SP, Technical Research Institute of Sweden, registration nr: 0402/SE-501 15 Boras,

Performed under system 3: Initial Type Testing and **issued** ITT reports,

 - ITT report No. 20-12-0921
 - ITT report No. 20-12-0922
 - SP No. P806119 and 402 CPD 497802
 - DE 611XB237-SC1018
8. Not applicable.
9. Declared performance:
the essential characteristics per product type are listed in table 1.
10. The performance of the products identified in points 1 and 2 and listed in table 1, are in conformity with the declared performance in point 9.
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:
Paul De Geyter, senior Quality manager NV Bekaert SA.

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Addendum to pt 9. Declared Performance on essential characteristics – see table 1

Table 1: Declaration on essential characteristics per Bricktie® product type
according EN 845-3: 2012 and EN 845-1: 2012

Product type	SCF35 W175	SCF40 W175	SCF50 W175	GCF35 W175	GCF40 W175	GCF50 W175
Type of welded steel wire meshwork	Ladder					
Type of wall tie	wall tie for collar joint masonry walls					
Intended use	Welded wire meshwork bed joint reinforcement for structural uses in wall and partitions as covered in the scope of EN845-3: 2012. Masonry wall tie for connecting two leaves of collar joint masonry walls in the scope of EN845-1: 2012.					
Dangerous substances	None					
Diameter +tol- longitudinal wire (mm)	3.50 ±0.10	4.00 ±0.10	5.00 ±0.10	3.50 ±0.10	4.00 ±0.10	5.00 ±0.10
Length of wall tie (mm)	175					
Width and Thickness of wall tie (mm)	20 (width) x 3 (thickness)					
Nom. Length + tol (mm)	2700 ± 1,5%					
Pitch + tol (mm)	450 ± 3%					
Width + tol (mm)	175 ± 5					
Durability	R3			R20		
Ductility class - Agt (%) - Rm/Rp0,2	LOW 0,8 - 1,03					
Shear load capacity of welds (N)	>2500					
Char. Yield strength long. Wires (N/mm ²)	700	650	750	650	775	775
Char. Yield strength cross tie (N/mm ²)	250					
Bond strength (kN) with 225mm bond length	7.3	9.7	14.1	7.3	15.7	23.5
Anchorage length (mm)	225					
Cavity width (mm)	0 - 45					
Min. embedment length (mm)	65					
Min. cover to face of the wall (mm)	20					
Min. mortar joint thickness (mm)	8					
Permissible range of movement (mm)	N.A.					
Tensile and shear load capacity (kN)	2.5					
Displacement at 1/3 tensile and shear load capacity (mm)	< 1					
Failure mode	Anchorage failure in tension and shear.					
Resistance to water crossing a cavity	No					
Symmetrical (S) or Asymm. (A) wall tie	S					