

EC Declaration of Performance Murfor® Compact

**CUSTOMER
INFORMATION
CI.00033.BKZW**

1. Unique identification code of the product-type: **Murfor® Compact**
with different product types A, I, E and widths 35 to 100 - see table 1.

2. Intended use:
'Ancillary components for masonry: **bed joint reinforcement for 'STRUCTURAL USE'** in masonry – horizontal joints - as covered in the scope of ETA 18/0316: 2018.

3. Manufacturer:
NV BEKAERT SA - Bekaertstraat 2, 8550 Zwevegem, Belgium.

5. System of assessment and verification of constancy of performance of the construction product:
System n°3

- 6 b. European Assessment Document: EAD n°. **170008-00-0604**
European Technical Assessment: ETA n°. **18/0316** issued: june 2018
Technical Assessment Body: **UBAtc** - Lombardstraat /Rue du Lombard 42 - 1000 Brussel/Bruxelles
Notified Labs :
TZUS - Technický a zkušební ústav stavební, Praha – Czech Republic;
TSUS - Technický a skúšobný ústav stavebný, Bratislava - Slovakia;
VUCHV - Výskumný ústav chemických vlákien, Svit - Slovakia.

7. Declared performance:
the essential characteristics per product type are declared in table 1&2.

The performance of the product identified above and listed in table 1+2, is in conformity with the set of declared performances from point 7.

This declaration of performance is issued, in accordance with regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Paul De Geyter, Global Quality Manager CQA, NV Bekaert SA.

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Addendum to pt 7. Declared Performance on essential characteristics – see table 1+2

Table 1: Declaration on essential characteristics per Murfor® Compact type, Galvanized steel , according ETA 18/0316: 2018.				
Product type	Murfor® Compact A		Murfor® Compact I	
	A – 40	A – 80	I – 50	I – 100
Width [W] + tol. (mm)	40 ± 5	80 ± 5	50 ± 5	100 ± 5
Total Steel Section (mm ²) (cord section [Ac] x n° cords)	4,83 (0,69 x 7)	9,66 (0,69 x 14)	4,83 (0,69 x 7)	9,66 (0,69 x 14)
Intended use	bed joint reinforcement for 'Structural use' in masonry, with thin layer mortar or normal purpose mortar and with AAC blocks.		bed joint reinforcement for 'Structural use' in masonry, with thin layer mortar or normal purpose mortar and clay-, concrete- or calcium silicate masonry units.	
Exposure conditions	Internal – passive - exposure MX1			
Material/coating reference - Longitudinal steel cord.	R20 - galvanized			
Longitudinal steel cords:				
- Yield Strength (N/mm ²)	1770		1770	
- Tensile strength (N/mm ²)	2100		2100	
- Ductility class	LOW Elongation at max force ≥ 2,2 % - Ratio: Tensile str./Yield str. ≥ 1,08			
Steel Wire diameter [c] (mm) x n° wires in cord.	0,54 x 3			
Profile Height [t] + tol. (mm)	1,7 ± 0,2			
Pitch [b] + tol. (mm)	33 ± 3,3			
Pitch between cords [f]-[e] (mm)	10 – 5		10 – 7,5	
Roll Length [L] + tol (m)	30 ± 0,45			
Transverse Roving wire, Tensile Force (N) - Tot. Elongation (%)	380 - 1,4			
Bond strength (kN)	4,5	9,33	4,0	8,42
Bond & Anchorage length (mm)	250			
Masonry units and Mortar for stated Bond & Anchorage length	AAC blocks C3/450 + mortar Ytocol		Perforated clay bricks 'Ploegsteert Barry' + mortar Weber Mix MM301E	

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Table 2:

Declaration on essential characteristics per Murfor® Compact type **Stainless steel**, according **ETA 18/0316**: 2018.

Product type	Murfor® Compact E	
	E – 35	E - 70
Width [w] + tol. (mm)	35 ± 5	70 ± 5
Total Steel Section (mm ²) (cord section [Ac] x n° cords)	4,83 (0,69 x 7)	9,66 (0,69 x 14)
Intended use	bed joint reinforcement for 'Structural use' in masonry, with thin layer mortar or normal purpose mortar and clay-, concrete- or calcium silicate masonry units.	
Exposure conditions	external – moderate an severe exposure - MX2 – MX3 – MX4	
Material/coating reference - Longitudinal steel cord.	R1 – stainless steel	
Longitudinal steel cords:		
- Yield Strength (N/mm ²)	1480	
- Tensile strength (N/mm ²)	1725	
- Ductility class	LOW	
	Elongation at max force ≥ 2,2 % - Ratio: Tensile str./Yield str. ≥ 1,08	
Steel Wire diameter [c] (mm) x n° wires in cord.	0,54 x 3	
Profile height [t] (mm)	1,7 ± 0,2	
Pitch [b] + tol. (mm)	33 ± 3,3	
Pitch between cords [f]-[e] (mm)	7,5 – 5	
Roll Length [L] + tol. (m)	30 ± 0,45	
Transverse Roving wire, Tensile Force (N) - Tot. Elongation (%)	380 - 1,4	
Bond strength (kN)	4,0	8,0
Bond & Anchorage length (mm)	250	
Masonry units and Mortar for stated Bond & Anchorage length	Solid clay bricks 'Vandersanden Barok' + mortar Weber Mix MM301E	

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