

**EC Declaration of Performance
Dramix® 3D**


**CUSTOMER
INFORMATION**

1. Unique identification code of the product: **Dramix® 3D xx/xxYY**
with different length / diameter combinations - product type 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.
eg. *Dramix® 3D 80/60BG*
 3. Intended use of the construction product in accordance with **EN 14889-1: 2006**
The product **Dramix® 3D** are steel fibres, made of cold-drawn wire, for **STRUCTURAL USE** in concrete, mortar and grout.
 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°1
 7. Notified Certification Body: BCCA - registration nr: 0749 / B-1040 Brussel, Rue d' Arlon 53,
performed under system 1:
 - determination of the product-type on the basis of Type Testing,
 - initial inspection of the manufacturing plant and of Factory Production Control,
 - continuous surveillance, assessment and evaluation of Factory Production Control,**issued:** a 'certificate of constancy of performance' per product – see table 1.
- Notified Labs:
- WTCB registration nr: 1136 / B-1000 Brussel, Lombardstraat 42,
 - TSUS registration nr: 1301 / SK-821 04 Bratislava, Studená 3,
- performed:** Initial Type Testing and issued ITT reports – see table 2.
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.



Approved by:
Sr. CQA manager Bekaert
P. De Geyter
Issue date: 2013/06/25




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

in accordance with EN 14889-1:2006

Table 1: Declaration on essential characteristics per Dramix® 3D product type									
Product Type	EC Certificate of constancy of performance Issued by notified body	Bundling	Coating	Length	Diameter	Aspect Ratio	Tensile Strength	Effect on consistence	Effect on strength of concrete
Dramix®	ref. number ⁽¹⁾			(mm)	(mm)		(N/mm ²)	(s)	(kg/m ³)
3D 100/60BG	BC1-251-0024-0054-004	glued	-	60	0,62	97	1270	8	10
3D 80/60BG	BC1-251-0024-0012-xxx	glued	-	60	0,75	80	1225	8	10
3D 80/50BG	BC1-251-0024-0011-xxx	glued	-	50	0,62	81	1270	8	10
3D 65/60BG	BC1-251-0024-0008-xxx	glued	-	60	0,90	67	1160	8	15
3D 65/50BG	BC1-251-0024-0019-xxx	glued	-	50	0,75	67	1225	8	20
3D 65/40BG	BC1-251-0024-0006-xxx	glued	-	41	0,62	66	1270	8	20
3D 65/35BG	BC1-251-0024-0004-xxx	glued	-	35	0,55	64	1345	8	15
3D 55/35BG	BC1-251-0024-0003-xxx	glued	-	35	0,62	56	1270	8	30
3D 55/60BG	BC1-251-0024-0020-xxx	glued	-	60	1,05	57	1115	8	20
3D 55/30BG	BC1-251-0024-0021-xxx	glued	-	30	0,55	55	1345	8	25
3D 45/30BG	BC1-251-0024-0022-xxx	glued	-	30	0,62	48	1270	8	30
3D 40/30BG	BC1-251-0024-0023-xxx	glued	-	30	0,75	40	1225	8	30
3D 45/50BL	BC1-251-0024-0016-xxx	loose	-	50	1,05	48	1115	8	20
3D 45/35BL	BC1-251-0024-0015-xxx	loose	-	35	0,75	47	1225	8	30
3D 45/30BL	BC1-251-0024-0001-xxx	loose	-	30	0,62	48	1270	8	30
3D 55/60BL	BC1-251-0024-0049-xxx	loose	-	60	1,05	57	1115	8	20
3D 80/30SL	BC1-251-0024-0017-xxx	loose	-	30	0,38	79	2000	10	20
3D 80/60GG	BC1-251-0024-0014-xxx	glued	zinc	60	0,75	80	1350	8	10
3D 65/60GG	BC1-251-0024-0009-xxx	glued	zinc	60	0,90	67	1240	8	15
3D 65/40GG	BC1-251-0024-0007-xxx	glued	zinc	41	0,62	66	1440	8	20
3D 65/35GG	BC1-251-0024-0005-xxx	glued	zinc	35	0,55	64	1550	8	15
3D 45/30GG	BC1-251-0024-0002-xxx	glued	zinc	30	0,62	48	1440	8	30
3D 80/60BB	BC1-251-0024-0030-002	loose	-	60	0,75	80	1225	8	10
3D 80/50BB	BC1-251-0024-0029-002	loose	-	50	0,62	81	1270	8	10
3D 65/60BB	BC1-251-0024-0028-002	loose	-	60	0,90	67	1160	8	15
3D 65/50BB	BC1-251-0024-0026-002	loose	-	50	0,75	67	1225	8	20
3D 65/35BB	BC1-251-0024-0025-002	loose	-	35	0,55	64	1345	8	15
3D 55/30BB	BC1-251-0024-0031-002	loose	-	30	0,55	55	1345	8	25
All types :	Release of dangerous substances :		No						
	Durability:		NPD						
	Modulus of elasticity:		200GPa						

(1) xxx - certificate available for different plants

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Addendum to pt 7. Reports issued under surveillance of Notified body – see table 2

Table 2: issued ITT reports		
Characteristic	Report reference	origin of report
ITT- Wire Tensile Strength : 0,55 - 0,62 - 0,75 - 0,90 bright normal	651 XG 269 – CAR 7194-2	WTCB
ITT- Wire Tensile Strength : 1,05 bright normal	651 XG 269 – CAR 7194-3	WTCB
ITT- Wire Tensile Strength : 0,75 galvanized normal	651 XG 269 – CAR 7194-1	WTCB
ITT- Wire Tensile Strength : 0,55 - 0,62 – 0,75 - 0,90 galvanized normal	PRPK/7333	BTC
ITT – Consistency - vébé - (<i>reference types</i>)	DE 611XB 068/7	WTCB
ITT – Effect on strength: (<i>reference types – 1 type per fibre length</i>)		
3D 45/50BL	DE 611XB 068/1	WTCB
3D 55/60BL	DE 611XB 068/3	WTCB
3D 45/35BL	DE 611XB 068/4	WTCB
3D 65/40BG	DE 611XB 068/5	WTCB
3D 40/30BG	DE 611XB 068/6	WTCB
3D 65/25SL	DE 611XB 129/3	WTCB
ITT – Effect on strength + vebe: (<i>additionally tested</i>)		
3D 80/60BG	DE 611XB 068/2	WTCB
3D 65/60BG	DE 611XB 068/8	WTCB
3D 80/50BG	DE 611XB 068/9	WTCB
3D 65/35BG	S 04/10/0063/1402/CB	TSUS