

DECLARATION OF PERFORMANCE

No. 4/TT/2016

1. Unique identification code of the product-type:
TERMALICA TNB composite lintel beam
2. Grade, type or batch allowing identification of the product:
Trade name, dimensions and identification data are placed on the product label.
3. Intended use or uses:
This product is intended for covering holes in a wall. Load bearing capacity of lintels is achieved by overlaying cellular concrete blocks with a height of 120mm and reinforced concrete ring beam with a height of 240mm.
Lintel beams and overlay of blocks require vertical and horizontal joints made of thin layer mortar.
4. Manufacturer:
BRUK-BET Sp. z o.o.
Nieciecza 199, 33-240 Żabno
5. System of assessment and verification of constancy of performance:
System 3
6. Harmonized standard:
EN 845-2:2013 – “Specification for ancillary components for masonry” - Part 2: Lintels.
7. Declared performance:

Essential properties		TNB 120/12	TNB 140/12	TNB 170/12	TNB 200/12	TNB 230/12	TNB 260/12	TNB 300/12	
Load bearing capacity with dead weight	kN/m	42.5	27.2	20.2	14.5	11.3	9.2	7.5	
Max deflection under load	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Weight per unit of cross section	kg/m ²	107.5	103.7	99.6	100.8	99.9	100.7	98.1	
		TNB 120/15	TNB 140/15	TNB 170/15	TNB 200/15	TNB 230/15	TNB 260/15	TNB 300/15	
Load bearing capacity with dead weight	kN/m	41.0	26.4	19.5	14.0	10.9	8.9	7.2	
Max deflection under load	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Weight per unit of cross section	kg/m ²	127.7	126.7	125.7	137.1	133.2	133.4	130.4	
		TNB 120/20	TNB 140/20	TNB 170/20	TNB 200/20	TNB 230/20	TNB 260/20	TNB 300/20	
Load bearing capacity with dead weight	kN/m	70.8	45.7	33.7	24.2	18.9	15.8	12.5	
Max deflection under load	mm	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Weight per unit of cross section	kg/m ²	164.6	164.2	163.7	167.3	168.3	167.5	169.3	
Water absorption	after 10 minutes	g/dm ²							56
	after 30 minutes								82
	after 90 minutes								129
Water vapour permeability (determined acc. to EN 1745)	-	5/10							
Durability (determined acc. to EN 1745)	-	Frost-resistant product after 15 cycles of freezing and thawing							
Durability of corrosion protection	-	Corrosion-resistant coating on reinforcement bars, average thickness of coating 266.4 μm							
Declared heat conductivity λ _{D10}	W/mK	0.14							
Reaction to fire	-	Euroclass A1							
Hazardous substances	-	None							

8. Other parameters.

		TNB 120/12	TNB 140/12	TNB 170/12	TNB 200/12	TNB 230/12	TNB 260/12	TNB 300/12
Min end bearing length	mm	200	200	250	250	250	250	250
Width of covered hole	mm	800	1000	1200	1500	1800	2100	2500
Weight	kg	16	18	21	24	28.5	32.5	36.5
Długość	mm	1200	1400	1700	2000	2300	2600	3000
Width	mm	120	120	120	120	120	120	120
Height	mm	124	124	124	124	124	124	124
		TNB 120/15	TNB 140/15	TNB 170/15	TNB 200/15	TNB 230/15	TNB 260/15	TNB 300/15
Min end bearing length	mm	200	200	250	250	250	250	250
Width of covered hole	mm	800	1000	1200	1500	1800	2100	2500
Weight	kg	19	22	26.5	33	38	43	48.5
Length	mm	1200	1400	1700	2000	2300	2600	3000
Width	mm	150	150	150	150	150	150	150
Height	mm	124	124	124	124	124	124	124
		TNB 120/20	TNB 140/20	TNB 170/20	TNB 200/20	TNB 230/20	TNB 260/20	TNB 300/20
Min end bearing length	mm	200	200	250	250	250	250	250
Width of covered hole	mm	800	1000	1200	1500	1800	2100	2500
Weight	kg	24.5	28.5	34.5	41.5	48	54	63
Length	mm	1200	1400	1700	2000	2300	2600	3000
Width	mm	150	150	150	150	150	150	150
Height	mm	124	124	124	124	124	124	124
Dimensional tolerance	Length	mm	+/- 15					
	Width		+/- 5					
	Height		+/- 5					
Type of accessory pieces	-	Cellular concrete blocks + reinforced concrete ring beam						
Thickness of accessory piece	mm	120						
Height of accessory piece	mm	120 + reinforced concrete ring beam 250						
Min compressive strength of accessory pieces	MPa	2.0						
Min concrete strength class of ring beam	-	C16/20						
Min strength of mortar	MPa	5.0						
Max distance between lintel supports during installation	mm	700						

Performance of the aforementioned product is compliant with the declared performance. This declaration of performance was issued according to Regulation (EU) No. 305/2011 under the sole responsibility of the manufacturer specified above.

Signed on behalf of the manufacturer by: Adam Liro - Factory Production Control Proxy

PEŁNOMOCNIK ds. ZAKŁADOWEJ
KONTROLI PRODUKCJI

mgr inż. Adam Liro

Nieciecza, 3rd June 2016

(date and place of issue)

(signature)