

DECLARATION OF PERFORMANCE (DoP)
Ver. 04/2020/SQ19

1. Unique identification code of the product-type:
SuperQuilt 19

2. Intended use/es:
The product is used for insulation of pitched roofs, external walls and below ground floors in buildings

3. Manufacturer:
**Yorkshire Building Services (Whitwell) Ltd. The Crag Industrial Park Morven Street. Creswell,
Derbyshire, S80 4AJ, (trading as YBS Insulation)**

4. Authorised representative:
DUOFOR BV, Dongen, The Netherlands

5. Reference number of the European Assessment Document:
040007-00-1201 2015

6. EU decision number (OJEU):
305/2011/EC

7. System/s of AVCP:
System 3

8. Harmonised technical specification:
ETA 20/0545, issued 22/04/2022

9. Notified body/ies:
**Kiwa BDA Testing B.V. (Kiwa Issuing TAB)
Postbox 389
4200 AJ GORINCHEM
Country : Netherlands
Identification number 1640**

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10. Declared performances:

	Essential characteristic	Results of Product performance assessment
(1)	(2)	(3)
Basic Works Requirement 2: Safety in case of fire		
1	Reaction to fire	Class according to N 13501-1: E
Fundamentele werkeisen 6: Energiebesparing en warmtebehoud		
2	Biological resistance	Not relevant
3	Corrosion developing capacity	Not relevant
4	Specific airflow resistivity	Not relevant
5	Dynamic stiffness	Not relevant
6	Impact sound reduction	Not relevant
7	Compressibility	Not relevant
8	Sound absorption	Not relevant
9	Thermal core resistance	$R_D = 1,53 \text{ m}^2 \cdot \text{K} \cdot \text{W}^{-1}$.
10	Durability of thermal resistance against ageing/degradation	According ageing procedure for emissivity procedure (point 11)
11	Emissivity (after ageing)	$\epsilon = 0,05$
12	Water vapour diffusion resistance	$\mu = 291 \times 10^5$ standard deviation 71×10^5
13	Water absorption at short term, partial immersion	$W_p = 0,63 \text{ kg} \cdot \text{m}^{-2}$ (upper side immersed) $W_p = 0,35 \text{ kg} \cdot \text{m}^{-2}$ (lower side immersed)
14	Watertightness	Not relevant
15	Geometry	nominal length (mm): 10000, 6667 + 0,1% nominal width (mm): 1500 + 1,3% Thickness (mm): beginning of the roll: 35,61 middle of the roll: 41,38 end of the roll: 42,33
16	Apparent density/Mass per unit area	0,797 $\text{kg} \cdot \text{m}^{-2}$
17	Squareness	Thickness(mm): 0 Deviation from squareness: Length (Sb) (mm.m-1): side 1: 0 side 2: 0 Width (Sb) (mm.m-1): side 1: 0 side 2: 0
18	Compressive stress or strength for products exposed to compression loads	Not relevant
19	Dimensional stability under specified temperature and humidity conditions (48 hours at 70 °C and 50% RH)	Dimensional change Length: -0,9 (% , L/L) Width: -0,7 (% , L/L) Thickness (mm): 36,15 – 48,77 – 38,51



Construction Products
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20	Tensile strength parallel to faces	247 kPa
21	Tensile strength perpendicular to surfaces	Not relevant
22	Resistance to tearing	Initial (N) longitudinal: 315 transverse: 390 After thermal ageing (70°C/90% RH) (N) longitudinal: 315 transverse: 310
23	Peel strength or mechanical strength of adhesive tape	NPD
24	Compressive creep for products exposed to compression load	Not relevant
25	Behaviour under point load for products exposed to compression load	Not relevant

Annex Table 1 – Basic properties of SuperQuilt 19

Property	Value	Unit
Emissivity	0.05	(-)
Thermal resistance core	1.53	(m ² .K.W ⁻¹)
Pitched roof 13 mm cavity	0.367	(m ² .K.W ⁻¹)
Pitched roof 20 mm cavity	0.539	(m ² .K.W ⁻¹)
External wall 13 mm cavity	0.46	(m ² .K.W ⁻¹)
External wall 20 mm cavity	0.665	(m ² .K.W ⁻¹)
Below ground floor 170 mm cavity	1.94	(m ² .K.W ⁻¹)
Below ground floor 350 mm cavity	2.252	(m ² .K.W ⁻¹)

Annex Table 2 – Additional R-values of SuperQuilt 19

External part of building	Build-up	Additional R-value
Pitched Roof	13 mm cavity+SQ19+13 mm cavity	2.26
	20 mm cavity+SQ19+20 mm cavity	2.60
Wall	13 mm cavity+SQ19+13 mm cavity	2.45
	20 mm cavity+SQ19+20 mm cavity	2.86
Below ground floor	170 mm cavity+SQ19+350 mm cavity	5.72

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11. The performance of the product identified above is in conformity with the set of declared performance/s. 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:

Lawrence Becker (Technical Manager)

At Creswell, Derbyshire on 22-10-2020

L Becker