



Construction Products
Regulation
(305/2011/EU)

DECLARATION OF PERFORMANCE (DoP)

Ver. 01/2022/Airtec Single Aluminium

1. Unique identification code of the product-type:
Airtec Single Aluminium
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. EU 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 22/0547, issued 07/09/2022
9. Notified body/ies:
Kiwa BDA Testing B.V. (Kiwa Issuing TAB)
Postbox 389
4200 AJ GORINCHEM
Country : Netherlands
Identification number 1640

DECLARATION OF PERFORMANCE (DoP)

Ver. 01/2022/Airtec Single Aluminium

10. Declared performance/s:

No	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: F
Basic Works Requirement 6: Energy economy and heat retention		
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	$R_D = 0,125 \text{ m}^2 \cdot \text{K} \cdot \text{W}^{-1}$.
10	Durability of thermal resistance against ageing/degradation	According to ageing procedure for emissivity procedure (point 11)
11	Emissivity (after ageing)	$\epsilon = 0,05$
12	Water vapour diffusion resistance	$\mu_d = 0,48 \text{ (m)} (\triangleq >600 \text{ MN.s.g-1})$.
13	Water absorption at short term, partial immersion	Not relevant
14	Watertightness	Not relevant
15	Geometry	nominal length (mm): $5000 + 0,2\%$ nominal width (mm): $1000 + 0\%$ Thickness (mm): beginning of the roll: $4 + 22,5\%$ middle of the roll: $4 + 12,5\%$ end of the roll: $4 + 10\%$ Nominal Thickness: 3.5 mm
16	Apparent density/Mass per unit area	$0,140 \text{ g.m-2}$
17	Squareness	Not relevant
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)	The dimensional stability has been determined as: $\Delta\epsilon_l = -0,5\%$, $\Delta\epsilon_w = -0,5\%$, $\Delta\epsilon_t = -10,6\%$
20	Tensile strength parallel to faces	Not relevant
21	Tensile strength perpendicular to faces	Not relevant
22	Resistance to tearing	Initial (N) longitudinal: 75 transverse: 75 After thermal ageing (70°C/90% RH) (N) longitudinal: 85 transverse: 70
23	Peel strength or mechanical strength of adhesive tape	Not relevant
24	Compressive creep for products exposed to compression load	Not relevant
25	Behavior under point load for products exposed to compression load	Not relevant

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 Director)

At Creswell, Derbyshire on 26-09-2022

L Becker

Signature



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Ver. 01/2022/Airtec Double Aluminium

10. Declared performance/s:

No	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: F
Basic Works Requirement 6: Energy economy and heat retention		
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	$R_D = 0,14 \text{ m}^2 \cdot \text{K} \cdot \text{W}^{-1}$.
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	$\mu_d = 0,48 \text{ (m)} (\triangleq >600 \text{ MN.s.g-1})$.
13	Water absorption at short term, partial immersion	Not relevant
14	Watertightness	Not relevant
15	Geometry	nominal length (mm): $5000 + 0,2\%$ nominal width (mm): $1000 + 0,2\%$
		Thickness (mm): beginning of the roll: $4 + 0,4\%$ middle of the roll: $4 + 2,5\%$ end of the roll: $4 + 2,5\%$ Nominal Thickness: 3.5 mm
16	Apparent density/Mass per unit area	$0,140 \text{ g.m-2}$
17	Squareness	Not relevant
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)	The dimensional stability has been determined as: $\Delta\epsilon_l = -0,5\%$, $\Delta\epsilon_w = -0,5\%$, $\Delta\epsilon_t = -10,6\%$
20	Tensile strength parallel to faces	Not relevant
21	Tensile strength perpendicular to faces	Not relevant
22	Resistance to tearing	Initial (N) longitudinal: 75 transverse: 75 After thermal ageing (70°C/90% RH) (N) longitudinal: 85 transverse: 70
23	Peel strength or mechanical strength of adhesive tape	Not relevant
24	Compressive creep for products exposed to compression load	Not relevant
25	Behavior under point load for products exposed to compression load	Not relevant

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 Director)

At Creswell, Derbyshire on 26-09-2022

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Postbox 389
4200 AJ GORINCHEM
Country : Netherlands
Identification number 1640

DECLARATION OF PERFORMANCE (DoP)

Ver. 01/2022/Airtec Double Bubble Aluminium

10. Declared performance/s:

No	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: F
Basic Works Requirement 6: Energy economy and heat retention		
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	$R_D = 0,200 \text{ m}^2 \cdot \text{K} \cdot \text{W}^{-1}$.
10	Durability of thermal resistance against ageing/degradation	According to ageing procedure for emissivity procedure (point 11)
11	Emissivity (after ageing)	$\epsilon = 0,05$
12	Water vapour diffusion resistance	$\mu_d = 0,48 \text{ (m)} (\triangleq >600 \text{ MN.s.g-1})$.
13	Water absorption at short term, partial immersion	Not relevant
14	Watertightness	Not relevant
15	Geometry	nominal length (mm): $5000 + 0,2\%$ nominal width (mm): $1000 + 0,1\%$ Thickness (mm): beginning of the roll: $6 + 0,7\%$ middle of the roll: $6 + 0,4\%$ end of the roll: $6 + 0,4\%$ Nominal Thickness: 7 mm
16	Apparent density/Mass per unit area	$0,307 \text{ g.m-2}$
17	Squareness	Not relevant
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)	The dimensional stability has been determined as: $\Delta\epsilon_l = -0,5\%$, $\Delta\epsilon_w = -0,5\%$, $\Delta\epsilon_t = -10,6\%$
20	Tensile strength parallel to faces	Not relevant
21	Tensile strength perpendicular to faces	Not relevant
22	Resistance to tearing	Initial (N) longitudinal: 75 transverse: 75 After thermal ageing (70°C/90% RH) (N) longitudinal: 85 transverse: 70
23	Peel strength or mechanical strength of adhesive tape	Not relevant
24	Compressive creep for products exposed to compression load	Not relevant
25	Behavior under point load for products exposed to compression load	Not relevant

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 Director)

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