www.wonderbuilds.co.uk
0208 208 2121
admin@wonderbuilds.co.uk

wonderbuilds
High Performance Roofing Products & Systems

BROOF (t4) UNDERLAY

DECLARATION OF PERFORMANCE: n° A0005641/F084-0

1. Unique identification code of the product-type: A0005641/F084

2. Identification of the Construction Product: WONDERBUILDS BROOFT4 U-LAY

3. Intended use or uses of the construction product:

Harmonized Technical Specification		Intended uses
EN 13707:2004+A2:2009	•	Reinforced Bitumen Sheets for Roof Waterproofing: - Single Layer; - Multi Layer / Top Layer; - Multi Layer / Complementary Layer; - Heavy protection (Single Layer, Multi Layer); - Anti root.
EN 13969:2004/A1:2006	•	Bitumen Damp Proof Sheets Including Bitumen Basement Tanking Sheets.
EN 13859-1:2014		Flexible Sheets for Waterproofing: Underlays for Discontinuous Roofing.
EN 13970:2007		Flexible Sheets for Waterproofing: Bitumen Water Vapour Control Layers.
EN 14695:2010		Reinforced Bitumen Sheets for Waterproofing of Concrete Bridge Decks and Other Trafficked Areas of Concrete.

4. System or Systems of assessment and verification of constancy of performance of the construction product:

EN 13707:2004+A2:2009	AVCP 2+
EN 13969:2004/A1:2006	AVCP 2+
EN 13859-1:2014	AVCP 3
EN 13970:2007	AVCP 3
EN 14695:2010	AVCP 2+

5. According to the aforementioned AVCP systems, the notified bodies or the notified laboratory carried out the initial inspection of factory, the FPC, continuous surveillance, assessment and approval of FPC or the initial provided type tests, after which they issued the following certificate of conformity of the factory production control or the following test report:

Harmonized Technical Specification	Notified Body/Lab	Notified Code	FPC number/ Report Number
EN 13707:2004+A2:2009	SGS INTRON	0958	CE0958-UKCA0120
EN 13969:2004/A1:2006	SGS INTRON	0958	CE0958-UKCA0120
EN 13859-1:2014			
EN 13970:2007			
EN 14695:2010			

6. European Technical Assessment (E.T.A.): N.A.

7. Declared Performance:

EN 13707:2004+A2:2009

Essential characteristics	Norm	Performance	Units		Tolerance
Watertightness	EN 1928	60	kPa	MLV	>=
Cold flexibility	EN 1109	-15	°C	MLV	<=
Cold flexibility after ageing	EN 1296+EN 1109	-10	°C	MDV	+15°C
Flow resistance	EN 1110	120	°C	MLV	>=
Flow resistance after ageing	EN 1296+EN 1110	110	°C	MDV	-10°C
Shear strenght of joints L	EN 12317-1	500	N/5 cm	MDV	-20% +50%
Shear strenght of joints T	EN 12317-1	300	N/5 cm	MDV	-20% +50%
Tensile strength L	EN 12311-1	600	N/5 cm	MDV	-20% +50%
Tensile strength T	EN 12311-1	400	N/5 cm	MDV	-20% +50%
Elongation at break L	EN 12311-1	35	%	MDV	-15
Elongation at break T	EN 12311-1	35	%	MDV	-15
Nail tear strength L	EN 12310-1	150	N	MDV	-20% +50%
Nail tear strength T	EN 12310-1	150	N	MDV	-20% +50%
Static puncture resistance	EN 12730 met. A	15	kg	MLV	>=
Dynamic puncture resistance	EN 12691	1000	mm	MLV	>=
Longitudinal peeling strength	EN 12316-1	NPD	N/5 cm	MDV	± 20N
Transversal peeling strength	EN 12316-1	NPD	N/5 cm	MDV	± 20N
Roots resistance	EN 13948	NPD			
Fire resistance	EN 13501-5	B ROOF (t4)			
Fire reaction	EN 13501-1	NPD			
Visible defects	EN 1850-1	NO			

EN 13969:2004/A1:2006

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Roots resistance	EN 13948	NPD			
Fire resistance	EN 13501-5	B ROOF (t4)			
Fire reaction	EN 13501-1	NPD			

Watertightness after ageing	EN 1296+EN 1928	60	kPa	MLV	>=

L is longitudinal direction, T is transversal direction, MDV indicates a manufacturers declared value for which a tolerance applies, MLV indicates a manufacturers limiting value (minimum or maximum depending on the characteristic), NPD indicates no performance determined, in which case it is possible the characteristic is not applicable.

Since external fire performance depends on the other components of the roof build-up, no performance can be given.

DANGEROUS SUBSTANCES: This product does not contain asbestos or tar constituents. Since there is no European test method available no performance declaration for leaching behaviour can be made. The performance of the product is in conformity with the declared performance _ CLP 1272/08/UE – REACH 1907/06/UE.