

1. Unique identification code of the product-type: **TV3/DOP/0EXU**
2. **Vent3® EXCEL190** Breathable Roofing Underlay
3. Declaration of Performance to EN 13859-1 / EN 13859-2

PROPERTIES	METHOD	UNITS	NOMINAL VALUE	TOLERANCE	
				MINIMUM	MAXIMUM
INFORMATIVE SECTION:					
LENGTH	EN 1848-2	M %	50	-0.5%	+1.5%
WIDTH	EN 1848-2	M %	1 & 1.5	-0.5%	+1.5%
STRAIGHTNESS	EN 1848-2	-	CONFORMING		
MASS PER UNIT AREA	EN 1849-2	(G/M ²) (%)	190	-10%	+10%
VISIBLE DEFECTS	EN 1850-2	-	WITHOUT VISIBLE DEFECTS		
NORMATIVE SECTION:					
REACTION TO FIRE	EN 13501	(CLASS)	E	-	-
RESISTANCE TO WATER PENETRATION	EN 13859-1	(CLASS)	W1	-	-
WATER VAPOUR TRANSMISSION SD	EN 12572	M	0.036	-0.01	+0.015
RESISTANCE TO PENETRATION OF AIR	EN 12114 EN 13859-1	(M ³ /M ² /H/100PA)	NPD	-	-
MAXIMUM TENSILE FORCE MD/CD	EN 12311-1 EN13859-1	N/50mm	340/280	-20/-20	+20/+20
ELONGATION MD/CD	EN 12311-1 EN 13859-1	(%)	47/79	-10/-10	+10/+10
RESISTANCE TO TEARING MD/CD	EN 12310-1	(N)	318.9/289.76	-20/-20	+20/+20
DIMENSIONAL STABILITY MD/CD	EN 1107-2	(%)	-0.4/+0.32	-0.7	+0.4
FLEXIBILITY AT LOW TEMPERATURE	EN 1109	(°C)	-40	-	-
CHANGE OF PROPERTIES AFTER ARTIFICIAL AGEING:					
RESISTANCE TO WATER PENETRATION	EN 13859-1	(CLASS)	W1	-	-
WATER VAPOUR TRANSMISSION SD	EN 12572	M	0.01	-	-
MAXIMUM TENSILE FORCE MD/CD	EN 12311-1	(%)	255/200	-20/-20	+20/+20
ELONGATION MD/CD	EN 12311-1	(%)	28/61	-10/-10	+10/+10
<i>Notes: MD – Machine Direction, CD – Cross Machine Direction, NPD – No Performance Determined, * - As laid</i>					
4. PRODUCT APPLICATION EN 13859-1;2					
Breathable waterproof roofing underlay manufactured by thermally bonding outer spunbonded polypropylene layers to inner layers of microporous polypropylene film for supported pitched roof construction with or without sarking. It can be applied in direct contact with thermal insulation. Can also be used for vertical wall construction as breathable membrane and wind barrier.					
5. System or systems of assessment and verification of constancy of performance of the construction product as set out in annex V:					
System 3.					
THIS PRODUCT DOES NOT CONTAIN ANY DANGEROUS SUBSTANCES.					
The declaration of performance identified in points 1 and 2 is in conformity with the declared performance in the point 3 above.					
The declaration of performance is issued under the sole responsibility of the manufacturer identified in the header.					
Signed for and on behalf of the manufacturer by:					
E. Patterson					
Elaine Patterson					
Valid from 12.10.2022 Issue 1					