Technical Data Sheet

FORCE DALLE

1.	**Description**	Force Dalle is a 4mm thick stabilised polyester reinforced, SBS elastomeric modified bitumen waterproofing membrane. Both surfaces have a film finish and on the upper surface there is a red marker line along the selvedge indicating the 100mm lap width on this anti-root membrane.
2.	**Use**	Top layer in single or multi layer waterproofing system with anti-root additive for use in inverted, warm and cold flat roofs, green roofs and blue roofs.
3.	**Application Method**	Fully bonded, with fully sealed joints, using torch-on technique to form a continuous layer.
4.	**Storage**	Rolls to be stored upright, under cover, without stacking and away from heat.
5.	**Composition**	(Indicative).

Reinforcement (g/m²)	Stabilised polyester	200
Binder (g/m²)	SBS elastomer	4,920
Surface finish (g/m²)	Thermofusible film	10
Under surface finish (g/m²)	Thermofusible film	10

Characteristics		**Standard**	**Units**	**Value**	**Tolerance**	
					Min	**Max**
Dimensions	**Length**	EN 1848-1	m	8	-1%	
	Width		m	1	-1%	
	Nominal roll weight		kg	≈ 42	-	-
	Thickness (on finished product)	EN 1849-1	mm	4	± 5	
Tensile properties: maximum strength	**Longitudinal**	EN 12311-1	N/50mm	600	-	-
	Cross direction			530	-	-
Tensile properties: Maximum elongation	**Longitudinal**	EN 12311-1	%	25	-	-
	Cross direction			30	-	-
Flexibility at low temperature		EN 1109	°C	≤ -15	-	
Flow resistance at elevated temperature		EN 1110	°C	≥ 100	-	
Resistance to impact - Method A		EN 12691	mm	≥ 700	-	
Resistance to static loading - Method A		EN 12730	kg	≥ 20	-	
Resistance to root penetration		EN 13948	-	Conform	-	

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