

NorGeoSpec 2012 Product Certificate

Quality Product Certification Separation and Filtration

This product has been found to be fit for use in accordance with NorGeoSpec 2012 System for the above given function.

Certificate no.:	NGS-50101
Date:	31.01.2018
Valid until:	30.01.2020
Manufacturer:	Low&Bonar Hungary Kft
Product:	NGS2
Product Type:	GTX-N
Raw material:	PP
Function:	Separation and Filtration

Issued by



Christian Recker, SINTEF project manager

Approved by



Arnstein Watn, Head of the Technical committee



The products are regularly audited and tested to verify that the characteristics fulfil the NorGeoSpec 2012 Rev.: 01/14.12.2016 requirements. Approved by the NorGeoSpec Technical committee: 31.01.2018

NorGeoSpec Certification body: SINTEF Building and Infrastructure · Forskningsveien 3B · 0373 Oslo

SINTEF is appointed Notified Body by the Norwegian Building Authority, related to Regulation (EU) No. 305/2011 – Construction Products. Notified Body No. 1071.

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Characteristic	Standard		Unit	Declared value	Max. tolerance	Certification value
Mass per unit area	EN ISO 9864		g/m ²	140	± 14	126 - 154
Mechanical tests						
Tensile strength	MD	EN ISO 10319	kN/m	11.20	- 1.12	10.08
	CMD	EN ISO 10319	kN/m	11.20	- 1.12	
Tensile strain at tensile strength	MD	EN ISO 10319	%	45.0	- 9.0	38.0
	CMD	EN ISO 10319	%	50.0	- 10.0	
Static puncture test	EN ISO 12236		KN	1.800	- 0.180	1.620
Dynamic perforation resistance	EN ISO 13433		mm	30	6	36
Energy index	NorGeoSpec 2012		kN/m	2.1	0.0	2.1
Hydraulic tests						
Permeability normal to the plane without load	EN ISO 11058		m/s	0.100	- 0.030	0.070
Characteristic opening size	EN ISO 12956		µm	90	± 27	63 - 117
Durability (Declared value)						
Service life			years	<input type="checkbox"/> 25	<input type="checkbox"/> 50	<input type="checkbox"/> 100

Quality Product Certification: Separation and Filtration

Application profile: **2**