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MIRAFI® S-Series Nonwoven Geotextiles

Technical Specification Data Pack (S31 | S32 | S41 | S51 | S61 | S72 | S82)

Geosynthetics Africa is a pan-African geosynthetics execution partner delivering spec-driven, quality-controlled geotextile systems for mining, civil engineering, infrastructure, and environmental projects across Africa.

Our role extends beyond material supply — we support specification compliance, logistics execution, and controlled installation.

SPEC-DRIVEN SUPPLY

Supply of manufacturer-certified **MIRAFI® S-Series nonwoven geotextiles**, selected strictly in accordance with project specifications, applicable standards, and engineering design requirements. Product selection is governed by required functions including separation, filtration, drainage, and load distribution — not by substitution or commercial equivalence.

PAN-AFRICAN LOGISTICS

End-to-end delivery across Southern, Central, East, West, and North Africa, including cross-border transport, customs coordination, remote-site delivery, and project-ready logistics planning. Proven capability to support complex mining and infrastructure projects in challenging jurisdictions.

QA/QC-CONTROLLED INSTALLATION

Installation and execution support aligned with IAGI-recognized practices, manufacturer quality assurance methods, and relevant ASTM / EN / ISO standards.

Our QA/QC framework includes controlled handling, placement oversight, documentation, and traceability to ensure installed geotextiles perform as designed.

Manufacturer Technical Data

This technical data pack contains manufacturer-issued technical specifications for MIRAFI® S-Series nonwoven geotextiles.

All technical properties, test methods, certification references, and performance values are reproduced directly from the manufacturer's original technical data sheets, provided from Page 2 onward without modification, and remain the sole technical authority for product performance and compliance.

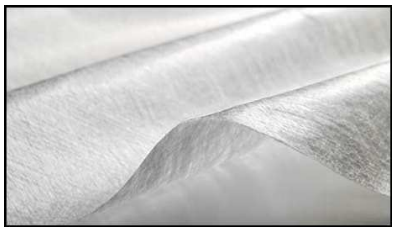
MIRAFI B-Series

BIDIM

TECHNICAL DATA SHEET

Bidim S

Bidim S geotextiles are mechanically bonded nonwovens made of 100 % polypropylene continuous filaments. 13 ASQUAL certified products.



Properties	Test method	Unit	S21 A	S21	S31 A	S31	S32 A	S32
ASQUAL certified geotextile								
Certified values according to function**								
Filtration			✓	✓	✓	✓	✓	✓
Separation			✓	✓	✓	✓	✓	✓
Drainage / Filtration						✓		✓
Tensile strength (MD*)	EN ISO 10319	kN/m	5	6	8	8	9	10
Tensile strength (CMD*)	EN ISO 10319	kN/m	5	6	8	8	9	10
Elongation at max. load (MD*)	EN ISO 10319	%	90	85	90	80	90	80
Elongation at max. load (CMD*)	EN ISO 10319	%	70	70	70	70	70	70
Dynamic perforation	EN ISO 13433	mm	40	34	32	31	28	28
Puncture resistance	NF G 38-019	N	200	400	400	400	500	500
CBR puncture resistance	EN ISO 12236	kN	0.70	1.05	1.20	1.20	1.40	1.45
Permeability normal to the plane (Δh = 50 mm)	EN ISO 11058	mm/s	180	100	110	100	100	100
Characteristic opening size (O90)	EN ISO 12956	µm	260	125	135	105	115	105
Water flow capacity in the plane (20 kPa)	EN ISO 12958	l/ms	-	-	-	5.3E-4	7.0E-4	7.2E-4
Water flow capacity in the plane (100 kPa)	EN ISO 12958	l/ms	-	-	-	2.8E-4	1.7E-4	3.0E-4
Mass per unit area	EN ISO 9864	g/m²	70	90	105	100	125	125
Thickness at 2 kPa load	EN ISO 9863-1	mm	0.65	1.10	0.80	1.20	0.95	1.40
Form of Supply* **								
Long range (per roll)								
Width x Length		m	2x250	-	2x300	3x175	4x250	2x250
		m	4x250	6x250	4x300	6x300		6x250
Medium range (on pallet)								
Width x Length		m	2x130	-	2x130	-	-	-
		m	4x130		4x130			

Notes

* MD = Machine Direction, CMD = Cross Machine Direction
** See certified tolerances in the ASQUAL certificate
*** See Solmax general terms of sales

Attention! The values given are indicative and correspond to average results obtained in our laboratories and testing institutes. The right is reserved to make changes without notice at any time. Please check that you have at your disposal the latest edition of the technical data sheet.

Certification and Accreditation

CERTIFIED ISO 9001 ISO 14001 ISO 45001

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Rev 72023

SOLMAX

MIRAFI B-Series

BIDIM

TECHNICAL DATA SHEET

Bidim S

Bidim S geotextiles are mechanically bonded nonwovens made of 100 % polypropylene continuous filaments. 13 ASQUAL certified products.

Properties	Test method	Unit	S41 A	S41	S42	S51	S61	S72	S82
ASQUAL certified geotextile									
Certified values according to function**									
Filtration			✓	✓	✓	✓	✓	✓	✓
Separation			✓	✓	✓	✓	✓	✓	✓
Drainage / Filtration			✓	✓	✓	✓	✓	✓	✓
Tensile strength (MD*)	EN ISO 10319	kN/m	12	12	15	16	20	25	30
Tensile strength (CMD*)	EN ISO 10319	kN/m	12	12	15	16	20	25	30
Elongation at max. load (MD*)	EN ISO 10319	%	90	80	80	80	80	83	80
Elongation at max. load (CMD*)	EN ISO 10319	%	70	70	70	70	70	70	70
Dynamic perforation	EN ISO 13433	mm	25	25	22	21	17	15	12
Puncture resistance	NF G 38-019	N	700	700	800	900	1100	1.2	1400
CBR puncture resistance	EN ISO 12236	kN	1.75	1.75	2.10	2.35	3.00	3.85	4.50
Permeability normal to the plane (Δh = 50 mm)	EN ISO 11058	mm/s	90	100	90	85	70	55	55
Characteristic opening size (O90)	EN ISO 12956	µm	110	100	100	100	95	90	85
Water flow capacity in the plane (20 kPa)	EN ISO 12958	l/ms	1.0E-3	1.0E-3	1.3E-3	1.5E-3	2.0E-3	2.7E-3	3.7E-3
Water flow capacity in the plane (100 kPa)	EN ISO 12958	l/ms	2.0E-4	4.0E-4	4.5E-4	5.0E-4	5.5E-4	6.8E-4	9.9E-4
Mass per unit area	EN ISO 9864	g/m²	155	150	180	200	250	300	385
Thickness at 2 kPa load	EN ISO 9863-1	mm	1.05	1.60	1.80	2.00	2.40	2.90	3.40
Form of Supply* **									
Long range (per roll)									
Width x Length		m	-	3x230	3x200	3x180	3x140	3x120	3x90
		m		6x230	6x200	6x180	6x140	6x120	6x90
Medium range (on pallet)									
Width x Length		m	4x130	3x130	-	-	-	-	-
		m							

Notes

* MD = Machine Direction, CMD = Cross Machine Direction
** See certified tolerances in the ASQUAL certificate
*** See Solmax general terms of sales

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