

**S range**  
**Technical Data**



TenCate Bidim® S geotextiles are mechanically continuous filament nonwovens from 100% polypropylene.  
13 ASQUAL certified products



TenCate Bidim® S

Properties [Standard]	Symbol	Unit	S21A	S21	S31A	S31	S32A	S32	
<b>ASQUAL Certified geotextiles</b>									
<b>Certified values according to the function**</b>	Filtration		✓	✓	✓	✓	✓	✓	
	Separation		✓	✓	✓	✓	✓	✓	
	Drainage / Filtration			✓	✓	✓	✓	✓	
Tensile strength [EN ISO 10319]	MD*	T <sub>max</sub>	kN/m	5	6	8	8	9	9
	CD*	T <sub>max</sub>	kN/m	5	6	8	8	9	9
Elongation at max. load [EN ISO 10319]	MD*	ε <sub>max</sub>	%	90	80	90	80	90	80
	CD*	ε <sub>max</sub>	%	70	70	75	70	75	70
Dynamic perforation [EN ISO 13433]		P <sub>d</sub>	mm	40	34	32	32	28	28
Puncture resistance [ENF 38019]		P <sub>s</sub>	kN	0.2	0.4	0.4	0.4	0.5	0.5
CBR puncture resistance [EN ISO 12236]		P <sub>CBR</sub>	kN	0.7	1.05	1.2	1.2	1.4	1.4
Water permeability normal to the plane [EN ISO 11058] (Δh = 50 mm)		V <sub>H50</sub>	m/s	0.18	0.10	0.11	0.10	0.10	0.10
Characteristic opening size [EN ISO 12956]		O <sub>90,w</sub>	μm	240	105	135	105	110	105
Water flow capacity in the plane [EN ISO 12958]	20 kPa	Q / I	10 <sup>-7</sup> m <sup>2</sup> /s	-	4.5	5.3	5.3	7.0	7.2
	100 kPa	Q / I	10 <sup>-7</sup> m <sup>2</sup> /s	-	2.8	1.5	2.8	1.7	3.0
Mass per unit area [EN ISO 9864]		μ <sub>GT</sub>	g/m <sup>2</sup>	70	95	105	105	125	125
Thickness under 2 kPa [EN ISO 9863-1]		t <sub>GT</sub>	mm	0.65	1.10	0.80	1.20	0.95	1.40
<b>Forms of supply***</b>									
Width x Length P: Palletts only R: Rolls only		m	2 x 110 P	6 x 250 R	2 x 300 R	6 x 300 R	4 x 250 R	2 x 250 R	
		m	2 x 200 P		4 x 175 P	3 x 175 P		6 x 250 R	
		m	2 x 250 R		4 x 300 R				
		m	4 x 110 P						
		m	4 x 200 P						
		m	4 x 250 R						

\* MD = Machine Direction, CD = Cross Direction

\*\* See certified tolerances on ASQUAL certificate

\*\*\* See TenCate Geosynthetics France S.A.S. 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.

**S range**  
**Technical Data**



TenCate Bidim® S geotextiles are mechanically continuous filament nonwovens from 100% polypropylene.  
13 ASQUAL certified products.



TenCate Bidim® S

Properties [Standard]	Symbol	Unit	S41A	S41	S42	S51	S61	S72	S82
<b>ASQUAL Certified geotextiles</b>									
<b>Certified values according to the function**</b>									
Filtration			✓	✓	✓	✓	✓	✓	✓
Separation			✓	✓	✓	✓	✓	✓	✓
Drainage / Filtration			✓	✓	✓	✓	✓	✓	✓
Tensile strength	MD*	T <sub>max</sub>	12	12	14	16	20	25	30
[EN ISO 10319]	CD*	T <sub>max</sub>	12	12	14	16	20	25	30
Elongation at maximum load	MD*	ε <sub>max</sub>	90	80	80	80	80	85	80
[EN ISO 10319]	CD*	ε <sub>max</sub>	75	70	70	70	70	75	70
Dynamic perforation [EN ISO 13433]		P <sub>d</sub>	25	25	22	21	17	15	12
Puncture resistance NFG 38019]		P <sub>s</sub>	0.7	0.7	0.8	0.9	1.1	1.2	1.4
CBR puncture resistance [EN ISO 12236]		P <sub>CBR</sub>	1.75	1.75	2.10	2.35	3.00	3.85	4.50
Water permeability normal to the plane [EN ISO 11058] (Δh = 50 mm)		V <sub>H50</sub>	0.09	0.10	0.09	0.085	0.07	0.055	0.05
Characteristic opening size [EN ISO 12956]		O <sub>90,w</sub>	100	100	100	100	95	85	85
Water flow capacity in the plane [EN ISO 12958]	20 kPa	Q / I	10	10	13	15	20	27	37
	100 kPa	Q / I	2.0	4.0	4.5	5.0	5.5	6.8	9.9
Mass per unit area [EN ISO 9864]		μ <sub>GT</sub>	155	155	180	200	250	305	385
Thickness under 2 kPa [EN ISO 9863-1]		t <sub>GT</sub>	1.05	1.60	1.8	2.0	2.4	2.7	3.4
<b>Forms of supply***</b>									
Width x Length		m	4 x 120 P	3 x 120 P	3 x 200 R	3 x 180 R	3 x 140 R	3 x 100 R	3 x 90 R
P: Pallets only		m		3 x 230 R	6 x 200 R	6 x 180 R	6 x 140 R	6 x 100 R	6 x 90 R
R: Rolls only		m		6 x 230 R					

\* MD = Machine Direction, CD = Cross Direction

\*\* See certified tolerances on ASQUAL certificate

\*\*\* See TenCate Geosynthetics France S.A.S. 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.

**TENCATE GEOSYNTHETICS FRANCE S.A.S.**  
9 rue Marcel Paul – B.P. 40080 – F-95873 Bezons Cedex  
Fax + 33 (0)1 34 23 53 48  
service.fr@tencate.com  
www.tencategeosynthetics.com



980328 | 02.2017 | EN  
MVA/SO

Protective Fabrics  
Outdoor Fabrics  
Aerospace Composites  
Advanced Armour

Geosynthetics  
Grass