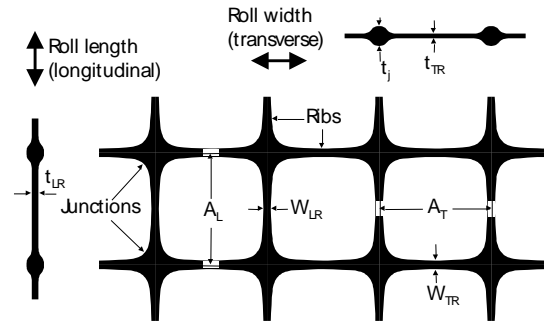


Tensar SS Geogrids Product Specifications

Tensar SS geogrids are used for the reinforcement of soils and aggregates in construction of structures such as road pavements, working platforms and reinforced foundations.

Tensar SS geogrids are stiff monolithic geogrids with integral junctions. They are orientated in two directions such that the resulting ribs have a high degree of molecular orientation which continues through the area of the integral node. The ribs have a rectangular cross section with square edges.



Property	Units	Tensar SS geogrid				
		SS20	SS30	SS40	SSLA20	SSLA30
Polymer		Polypropylene				
Minimum carbon black (1)	%	2	2	2	2	2
Minimum roll width	m	4.0 & 3.8	4.0 & 3.8	4.0 & 3.8	3.8	3.8
Minimum roll length	m	75	50	30	50	50
Typical unit weight	kg/m ²	0.23	0.33	0.54	0.21	0.32
Typical roll weight	kg	69.5 & 66	67.5 & 64.5	65 & 62	40.5	61.5
Typical Dimensions						
A_L	mm	39	39	33	65	65
A_T	mm	39	39	33	65	65
W_{LR}	mm	2.3	2.2	2.4	4.2	3.6
W_{TR}	mm	2.8	2.1	3.2	4.5	4.5
t_j	mm	3.8	4.9	5.8	4.6	6.4
t_{LR}	mm	1.6	2.1	2.7	1.4	2.3
t_{TR}	mm	1.2	1.6	2.1	1.2	1.7
Quality control strength longitudinal						
Minimum T_{ult} (2)	kN/m	20.0	30.0	40.0	20.0	30.0
Typical strength at 2% strain (2)	kN/m	7.0	10.5	14.0	7.0	11.0
Typical strength at 5% strain (2)	kN/m	14.0	21.0	28.0	14.0	22.0
Approx strain at T_{ult}	%	11.0	11.0	11.0	10.0	9.0
Junction efficiency (3)	%	100-10%	100-10%	100-10%	100-10%	100-10%
Quality control strength transverse						
Minimum T_{ult} (2)	kN/m	20.0	30.0	40.0	20.0	30.0
Typical strength at 2% strain (2)	kN/m	7.0	10.5	14.0	8.0	12.0
Typical strength at 5% strain (2)	kN/m	14.0	21.0	28.0	15.0	25.0
Approx strain at T_{ult}	%	10.0	10.0	10.0	10.0	9.0
Junction efficiency (3)	%	100-10%	100-10%	100-10%	100-10%	100-10%

(1) The geogrid shall have a minimum of 2% finely divided carbon black, well dispersed in the polymer matrix to inhibit attack by ultra violet light, determined in accordance with ASTM D1603-06

(2) Determined in accordance with BS EN ISO 10319:2008

(3) Determined and reported in accordance with EOTA TR041

(4) The minimum working life of **Tensar SS geogrids** is assumed to be 100 years in natural soils with a pH value between 4 and 9 and in soil temperatures less than 15°C and is expected to be 50 years in natural soils with a pH value between 4 and 9 and in soil temperatures less than 25°C, when covered within 30 days.

(5) **Tensar SS geogrids** are manufactured in accordance with a Quality Management System which complies with the requirements of BS EN ISO 9001:2008. All quoted dimensions and values are typical unless stated otherwise.

The information in this document supersedes any and all prior Technical Notes for the product(s) designated above, is of an illustrative nature and supplied by Tensar International Limited free of charge for general information purposes only. Tensar reserves the right to amend product descriptions, properties and specifications at any time and without prior notice. This document does not form part of any contract or intended contract. Tensar International Limited excludes to the fullest extent lawfully permitted any and all liability whatsoever for any loss or damage howsoever arising out of the use of and reliance upon this information. It is your sole responsibility and you must assume all risk and liability for the final determination as to the suitability of any Tensar International Limited product and/or design for the use and in the manner contemplated by you in connection with a particular project.

Tensar and TriAx are registered trademarks

Copyright © Tensar International Limited 2015

Tensar International Limited

Tel: +44 (0) 1254 262431
Fax: +44 (0) 1254 266867
E-mail: sales@tensar.co.uk
www.tensar-international.com

UK Head Office

Units 2 - 4 Cunningham Court
Shadsworth Business Park
Blackburn
BB1 2QX
United Kingdom

