

## Tensar SS Geogrids Product Specifications

This Technical Note is not intended to be freely distributed as it does not accord with our policy for the recommended use of performance related specifications. There are likely to be a number of projects remaining in the pipeline that include specifications for Tensar SS geogrids based upon our 'old' Model Specifications. In such cases we may be asked by our customers or our distributors to demonstrate that current Tensar SS geogrids meet the minimum specification. The purpose of the document is to provide the physical characteristics of SS geogrids when necessary.

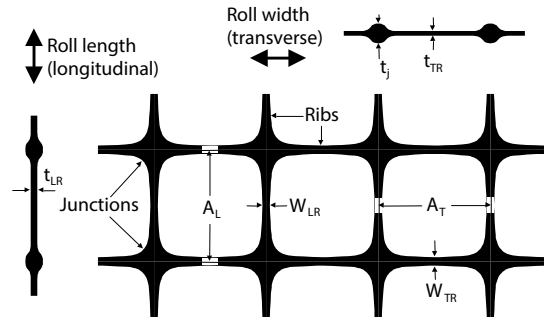
**DISTRIBUTED BY**

**01942 218597**  
**SALES@TCS-GEOTECHNICS.CO.UK**  
**WWW.TCS-GEOTECHNICS.CO.UK**

## 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	SS2	SSLA20	SSLA30
Polymer		Polypropylene					
Minimum carbon black (1)	%	2	2	2	2	2	2
Roll width	m	4.0 & 3.8	4.0 & 3.8	4.0 & 3.8	4.0	3.8	3.8
Roll length	m	50	50	30	50	50	50
Unit weight	kg/m <sup>2</sup>	0.22	0.33	0.53	0.29	0.22	0.33
Roll weight	kg	46 & 44	67 & 64	65 & 62	60	43	65
Dimensions							
A <sub>L</sub>	mm	39	39	33	28	65	65
A <sub>T</sub>	mm	39	39	33	40	65	65
W <sub>LR</sub>	mm	2.2	2.3	2.2	3.0	4.0	4.0
W <sub>TR</sub>	mm	2.4	2.8	2.5	3.0	4.0	4.0
t <sub>j</sub>	mm	4.1	5.0	5.8	3.8	4.4	7.0
t <sub>LR</sub>	mm	1.1	2.2	2.2	1.2	0.8	1.7
t <sub>TR</sub>	mm	0.8	1.3	1.4	0.9	0.8	1.5
Quality control strength longitudinal							
T <sub>ult</sub> (2)	kN/m	20.0	30.0	40.0	17.5	20.0	30.0
Load at 2% strain (2)	kN/m	7.0	10.5	14.0	7.0	7.0	11.0
Load at 5% strain (2)	kN/m	14.0	21.0	28.0	14.0	14.0	22.0
Approx strain at T <sub>ult</sub>	%	11.0	11.0	11.0	12.0	10.0	9.0
Junction strength (3)	%	95	95	95	90	95	95
Quality control strength transverse							
T <sub>ult</sub> (2)	kN/m	20.0	30.0	40.0	31.5	20.0	30.0
Load at 2% strain (2)	kN/m	7.0	10.5	14.0	12.0	8.0	12.0
Load at 5% strain (2)	kN/m	14.0	21.0	28.0	23.0	15.0	25.0
Approx strain at T <sub>ult</sub>	%	10.0	10.0	10.0	10.0	10.0	9.0
Junction strength (3)	%	95	95	95	90	95	95

- (1) Carbon black inhibits attack by UV light. Determined in accordance with BS 2782:Part 4:Method 452B:1993.
- (2) Determined in accordance with BS EN ISO 10319:1996 and as a lower 95% confidence limit in accordance with ISO 2602:1980 (BS 2846:Part 2:1981).
- (3) Determined in accordance with GRI Test Method GG2-87, and expressed as a % of the quality control strength.
- (4) Tensar SS geogrids are inert to all chemicals naturally found in soils and have no solvents at ambient temperature. They are not susceptible to hydrolysis and are resistant to aqueous solutions of salts, acids and alkalis and are non-biodegradable.
- (5) Tensar SS geogrids are manufactured in accordance with a Quality Management System which complies with the requirements of BS EN ISO 9001:2000. All quoted dimensions and values are typical unless stated otherwise.

### DISTRIBUTED BY



01942 218597  
SALES@TCS-GEOTECHNICS.CO.UK  
WWW.TCS-GEOTECHNICS.CO.UK

Determination of the suitability of any information or material for the use contemplated or the manner of use is the sole responsibility of the user. Tensar is a registered trade mark

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  
Cunningham Court  
Shadsworth Business Park  
Blackburn  
BB1 2QX  
United Kingdom

