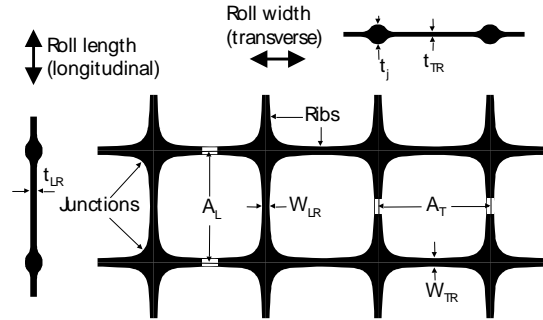


## Tensar SS Geogrids Product Specifications

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 <sup>2</sup>	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
<b>Typical Dimensions</b>						
A <sub>L</sub>	mm	39	39	33	65	65
A <sub>T</sub>	mm	39	39	33	65	65
W <sub>LR</sub>	mm	2.3	2.2	2.4	4.2	3.6
W <sub>TR</sub>	mm	2.8	2.1	3.2	4.5	4.5
t <sub>j</sub>	mm	3.8	4.9	5.8	4.6	6.4
t <sub>LR</sub>	mm	1.6	2.1	2.7	1.4	2.3
t <sub>TR</sub>	mm	1.2	1.6	2.1	1.2	1.7
<b>Quality control strength longitudinal</b>						
Minimum T <sub>ult</sub> (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 <sub>ult</sub>	%	11.0	11.0	11.0	10.0	9.0
Junction efficiency (3)	%	100-10%	100-10%	100-10%	100-10%	100-10%
<b>Quality control strength transverse</b>						
Minimum T <sub>ult</sub> (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 <sub>ult</sub>	%	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 10319:2015
- (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 9001:2015. All quoted dimensions and values are typical unless stated otherwise.

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