

E'GRID® – Tensar® Triax® Geogrid Equivalencies

When geogrids with triangular apertures were introduced to the market it was difficult for engineers to compare their tensile properties against those of the well-established square-aperture geogrids such as the E'GRID range. Established tensile test methods such as ISO 10319 cannot adequately measure the properties of these new geogrids with ribs lying in 3 directions. Since that time a development programme has resulted in a test that tensions geogrid samples radially in all directions simultaneously (omniaxial tension) at low strains (Reference). This gives tensions in the grid that are analogous to the tensions in a grid installed in a road or other trafficked area under a wheel load.

Using this new test and information available in Tensar Triax data sheets, the table below has been drawn up based on equivalencies found between E'GRID square-aperture geogrids and Tensar Triax triangular-aperture geogrids in this omni-axial radial tensile performance.

E'GRID® product					
	1616	2020	3030	4040	3030L
Tensar® Triax® product			TX190L		TX190L
				TX180	
			TX170		
		TX160			
		TX150			
	TX140	TX140			
	TX130S	TX130S			

This information is offered in good faith as it may be of assistance to engineers in determining which products to use in projects. It remains the responsibility of the engineer to decide whether this information is appropriate to the conditions of a particular project.

Reference:

Wrigley, N. E., Zheng, H., Yuan, S.:

The confinement effect of different geogrids: 4 : the development of an index test;

Proceedings: 5th European Conference on Geosynthetics, Valencia, Spain, 2012

We are continually seeking to improve our products and therefore we reserve the right to make changes without notice. 19-1304B