



# LTRC Report: BaseGrid Geogrids

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## BaseGrid\* Multi-Layer Geogrids In The Field The Louisiana Transportation Research Center

Louisiana Transportation Research  
Technical Assistance Report  
Report #18

Geophysical Group  
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**Table 1: Stage Two Test Section Results**

STATION	GEOGRID	BASE THICKNESS	TOTAL AREA Sq. Yds.	FAILED AREA Sq. Yds.
139+00 – 140+45	Tensar BX1100	8	548	50
140+45 – 141+24	BaseGrid 22*	12	298	0
141+24 – 142+06	Tensar BX1200	12	261	0
142+06 – 105+05	Tensar BX1100	12	2937	82
150+05 – 181+89	BaseGrid 22*	12	11,912	166
<b>TOTAL</b>			<b>15,956</b>	<b>298</b>

A field inspection of the project two years after completion indicated all pavement sections to be performing adequately. There is no evidence of any subgrade or base failures.

### Indications Taken From the LTRC Comprehensive Research & Analysis

- 1) This LTRC report states that “there was a concern that the individual layers of [BaseGrid\*] multi-layer geogrid were failing independently and not acting as a single unit. To investigate this, several holes were excavated in the areas of pumping subgrade to expose the geogrid. This investigation did not reveal any separation of the geogrids.” (Page 8).
- 2) This LTRC report further concludes that “[BaseGrid 22\*] and Tensar BX1100, geogrids of similar modulus, performed equally in the field when exposed to similar conditions.” (Page 12)
- 3) The performance of BaseGrid 22\* is actually better than BX1100 with a failure rate of 1.4% vs. 2.8% (Table 1)

\*US Fabrics BaseGrid 22 & BaseGrid 33 are private label versions of the Tenax MS220 & MS330

The above information is to the best of our knowledge accurate, but is not intended to be considered as a guarantee. Any implied warranty for a particular use or purpose is excluded. . (1/2009).