

No.RW/NH-33044/3/99-S&amp;R

Dated, the 22nd April, 1999

To

The Secretaries/Chief Engineers of States/Union Territories, Public Works Departments (dealing with National Highways and other Centrally Sponsored Schemes); Chairman, National Highways Authority of India; Director General Border Roads

Subject : Amendment to the Specifications for Road and Bridge Works

The Specifications for geotextiles in subsurface drainage, appearing under clause 702.2.3 of the Ministry's Specifications for Road and Bridge Works, page 258 of the Third Revision, may be amended as follows:

Existing subpara (b) may be deleted and substituted by the following:

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(b) The apparent opening size\* @shall satisfy the following:

Test Method	Units	Requirements per cent in-situ soil passing 0.075 mm		
		<15	15 to 50	>50
ASTM D 4751	mm	0.43	0.25	0.22**

\* These default filtration property values are based on the predominant particle size of in-situ soil. In addition to the default permeability value, the Engineer may require geotextile permeability and/or performance testing based on engineering design for drainage systems in problematic soil environments.

@ Site Specific geotextile design should be performed especially if one or more of the following problematic soil environments are encountered; unstable or highly erodible soils, such as, non-cohesive silts; gap graded soils; alternating sand/silt laminated soils; dispersive clays; and/or rock flour.

\*\* For cohesive soils with a plasticity index greater than 7, geotextile maximum average roll values for apparent opening size is 0.30 mm.