

ALABAMA DEPARTMENT OF TRANSPORTATION

DATE: November 8, 2011

Special Provision No. 12-0107

EFFECTIVE DATE: January 1, 2012

SUBJECT: Waterstop Materials.

Alabama Standard Specifications, 2012 Edition, shall be amended by modifying Section 832 as follows:

SECTION 832 CONCRETE JOINT FILLERS, JOINT AND CRACK SEALANTS, AND WATERSTOP MATERIALS

832.05 Waterstop Materials.

(a) DESCRIPTION.

Waterstops shall be of the size and shape shown on the plans. The material may be either neoprene, polyvinylchloride or strip applied expandable waterstop meeting the requirements given in this Section.

(b) NEOPRENE.

Physical Requirements.

1. Tensile Strength, Method A using die C - 2000 psi {13.78 MPa} Min., ASTM D 412.
2. Ultimate Elongation, Method A using die C - 360 % Min., ASTM D 412.
3. Type A Shore Durometer Hardness - 65 ± 5 , ASTM D 2240.
4. Change in Type A Durometer Hardness, 70 hrs. heat aged @ 158 °F {70 °C} + 15 points Max., ASTM D 2240.
5. Compression Set, Method B, Max permissible change after 22 hrs. heat aged @ 158 °F {70 °C} 30%, ASTM D 395.

(c) POLYVINYLCHLORIDE.

Physical Requirements.

1. Tensile Strength, Method A using die C - 1750 psi {12.17 MPa} Min., ASTM D 412.
2. Ultimate Elongation, Method A using die C - 300 % Min., ASTM D 412.
3. Type A Shore Durometer Hardness 80 ± 5 ASTM D 2240.
4. Change in Type A Durometer Hardness, 70 hrs. heat aged @ 158 °F {70 °C} + 15 points Max., ASTM D 2240.

(d) STRIP APPLIED EXPANDABLE WATERSTOP.

Physical Requirements.

1. Specific Gravity - 130-160 , ASTM D 71.
2. Penetration - cone at 77 °F, 150 gm, 5 sec, 40 mm ± 5 , ASTM D 217.
3. Volatile Matter - 1 % Max., ASTM D 6.