

1721 - FABRIC TROUGH

SECTION 1721

FABRIC TROUGH

1721.1 DESCRIPTION

This specification covers a material to be installed as a trough below the finger type and sliding plate type expansion joints (or for other applications as shown in the Contract Documents) to carry drainage off the bridge, and prevent saltwater and debris from running down on other bridge members.

1721.2 REQUIREMENTS

Provide fabric trough material composed of one or two ply tightly woven nylon fabric bonded to, laminated, or covered on both sides with a high density neoprene, ethylene-propylene-diene-monomer (EPDM), or buna-nitrile PVC, that complies with **TABLE 1721-1**.

TABLE 1721-1: REQUIREMENTS FOR FABRIC TROUGH		
Property	Requirement	Test Method
Thickness (mm)	3 to 5	
Mass (g/sq m minimum)	3560	
Durometer Hardness (Shore A)	50A to 75A	ASTM D 2240
Low Temperature Brittleness (22 hrs. @ -29°C, then wrapped around a 75 mm diameter mandrel)	No Cracks	
Tensile Strength, kg/25 mm minimum, both directions	363	ASTM D 412
Elongation, %, maximum	35	ASTM D 412
Tear (Die C), kg/25 mm minimum	55	ASTM D 624
Ozone Resistance (100 hours of exposure of 20% elongated samples @ 38°C and 100 PPHM ozone.)	No Cracks	ASTM D 1149

Provide material that is resistant to abrasion, sunlight, oils, and saltwater.

1721.3 TEST METHODS

Use the ASTM methods cited above.

1721.4 PREQUALIFICATION

None required.

1721.5 BASIS OF ACCEPTANCE

Receipt and approval of a Type B certification as specified in **DIVISION 2600**, and visual inspection for condition.