# **TRAPEZOID**

# 1-1/2" DEEP 4" O.C.

1101

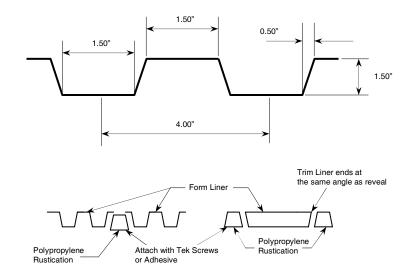
#### **TECHNICAL DATA** Trapezoid 1101 HIPS High Impact Polystyrene Plastic **Properties** Rating **ASTM** IZOD Impact, ft.-lbs./in. @70°F 2.0 D256 D256 @0°F 1.3 Tensile Strength 3.700 psi D638 **Heat Deflection** 188 D695 Vicat Softening 212 D1525 Wt.lb./sq.ft. .070 mil .449 .090 mil .577 .110 mil .705 .130 mil .833 150 mil 966 Trapezoid 1101 ABS Acrylonitrile-butadiene styrene IZOD Impact, ft.-lbs./in. @73 5.6 D256 @n° 1.9 D256 Tensile Strength, 73°F, psi Yield 5,300 D638 330,000 D638 Modulus Flexural Strength 73°F, psi D790 9 300 Yield 325,000 D790 Modulus Heat Deflection @264 psi 199 D648 D648 @66 psi 211 Hardness (Rockwell R) 73°F 105 D785 Falling Dart Impact, ft.-lb. @73°F 23 @40°F 14 Specific Gravity 1.05 D792 Wt. lb./sq.ft. .070 mil .451 .090 mil .580 .110 mil .705 .130 mil .833 .150 mil .961 Trapezoid 1101 PE Polyurethane Elastomer Shore A Hardness 45-50 D2240 Tear Strength, PLI 55 D624 Tensile Strength, psi 500 D638 (D412) D638 (D412) Ultimate Elongation 240% Trapezoid 1101 PPE Premium Polyurethane Elastomer Shore Hardness 60-65 D2240 Tear Strength, PLI 120 D624 Tensile Strength, psi 1150 D638 (D412) Ultimate Elongation 1200% D638 (D412)

Manufacturing Tolerances @70°F

Width: ± 1/4"

Length: +1" to 2", -0" (shipped long to allow field trimming

Thickness @ edges ± 1/16" (except formliners over 1" thickness)



### **Attachment to Formwork**

Thermoform Formliners can be used in precast, tilt-up or cast -in-place applications. Single-use HIP is most frequently used for tilt-up applications and can be installed using Tek drywall screws or pneumatic staplers, spacing should be approximately 6" to 12" on center around the perimeter and 18" to 24" through the center. Double Sided Tape, "Formica Top" adhesive, Heavy Duct Tape or Silicone Caulk are all the common ways to attach formliners. Make sure all surfaces are clean, dry and free of dust and debris. Formliner PE & PPE liners are attached from the back with 3/8" bolts when optional T-nuts are installed.

## **Form Placement**

It is important that forms for architectural concrete be aligned and in common planes. A "Stack up" of manufacturing tolerances can result in forms being in different planes, even when properly aligned. This creates a noticeable "step" in the finished surface, particularly with shallow Formliner patterns.

#### Rustication

Reveals or rustications are recommended at butted joints so it will allow the features of the liner to appear continuous. All butted joints should be taped and/or caulked to reduce grout leakage.

## Form Release

Formliners should be sprayed with high end form release agent before each use and within the same day that concrete is placed. Apply with low flow, wide angle, flat spray nozzle and wipe with a cloth to insure a complete even coat to the entire formliner surface.