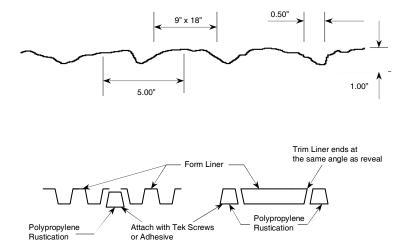


FRACTURED

# 1" DEEP 5" O.C. RIPPER REBAR

TECHNI	CAL DATA	
Fractured 1410 HIPS High Impact Polystyrene Plastic		
Properties	Rating	ASTM
IZOD Impact, ftlbs./in. @70°F @0°F Tensile Strength Heat Deflection Vicat Softening Wt.lb./sq.ft.	2.0 1.3 3,700 psi 188 212	D256 D256 D638 D695 D1525
.070 mil .090 mil .110 mil .130 mil .150 mil	.449 .577 .705 .833 .966	
Fractured 1410 ABS Acrylonitrile-butadiene styrene		
IZOD Impact, ftIbs./in. @73° @0°	5.6 1.9	D256 D256
Tensile Strength, 73°F, psi Yield Modulus Flexural Strength 73°F, psi	5,300 330,000	D638 D638
Yield Modulus Heat Deflection	9,300 325,000	D790 D790
@264 psi @66 psi Hardness (Rockwell R) 73°F	199 211 105	D648 D648 D785
Falling Dart Impact, ftlb. @73'F @40'F Specific Gravity Wt. lb./sq.ft. 070 mil	23 14 1.05 .451	D792
.090 mil .110 mil .130 mil .150 mil	.580 .705 .833 .961	
Fractured 1410 PE Polyurethane Elastomer		
Shore A Hardness Tear Strength, PLI Tensile Strength, psi Ultimate Elongation	45-50 55 500 240%	D2240 D624 D638 (D412) D638 (D412)
Fractured 1410 PPE Premium Polyurethane Elastomer		
Shore Hardness Tear Strength, PLI Tensile Strength, psi Ultimate Elongation	60-65 120 1150 1200%	D2240 D624 D638 (D412) D638 (D412)
Manufacturing Tolerances @70°F Length: +1" to 2", -0" (shipped long to allow field trimming Width: ± 1/4" 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.