

American Formliners

Formliners



Application Summary

Design

- **Texture** – Surface details and finishes are permanently molded into the formliner material during production resulting in a consistent concrete appearance.
- **Depth** – Geometric and high-relief textures can be reproduced using HIPS, ABS, PE or PPE materials. Undercut textures can be reproduced using the flexible PE or PPE material.
- **Specification** – Formliners are typically identified by pattern number and description, except for custom designs having drawings and supporting documentation.

Budget

- **Project Budget** – The project schedule and forming cycle time typically dictates the material and budget requirements.
- **Labor Budget** – Reusable formliners, properly coordinated with concrete forming operations, can significantly improve site productivity, minimizing associated forming costs

Reusability – Single-use HIPS plastic, medium-use ABS plastic, and extended-use PE and PPE elastomeric materials are available for your specific concrete forming application.

Rate-of-Pour – Formliners are typically designed to withstand concrete placement of five feet per hour, but there are other materials/methods available if an application exceeds this limit.

Attachment

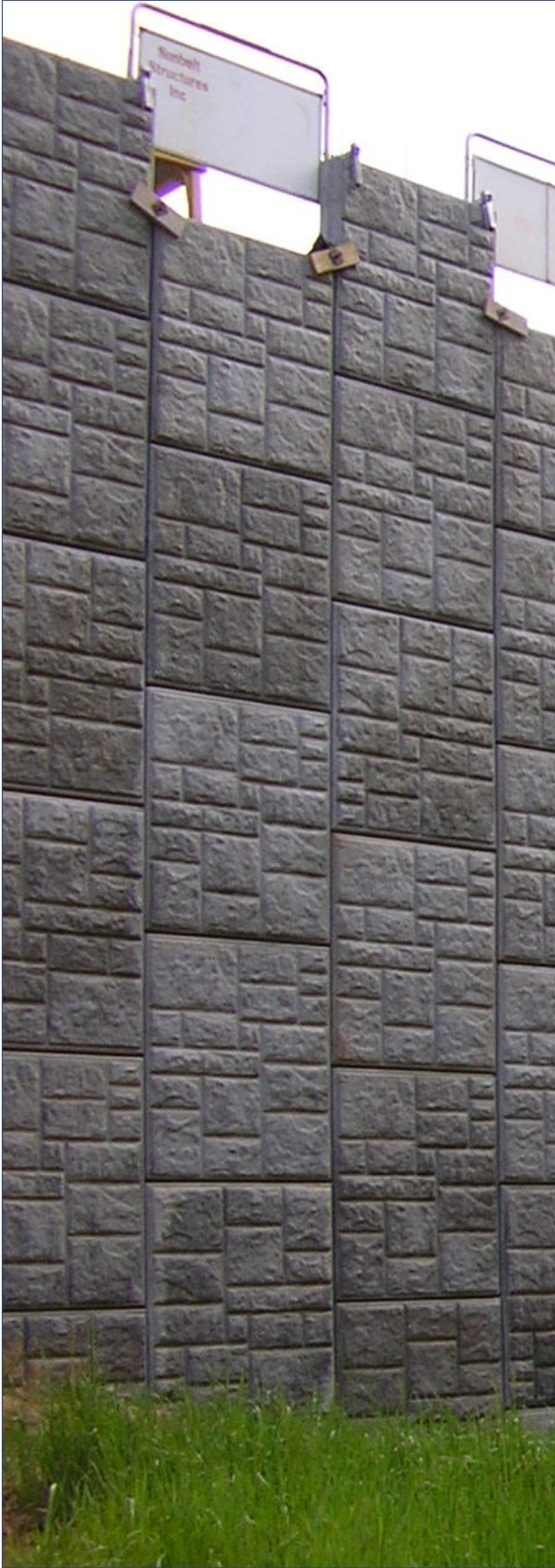
Formliners are used in cast-in-place, precast or tilt-up. All mounting surfaces should be clean and dry. ABS and HIP materials can be installed using screws or staples. PE and PPE materials are typically plywood-mounted with adhesive and subsequently bolted to formwork. Adhesive tapes, foam tapes and silicone caulks are used at joints and seams to minimize grout leakage.

Alignment

The formwork must be properly aligned and in common planes. A “stack up” of tolerances can result in a noticeable “step” in the finished concrete surface, especially with “shallow” formliner patterns. Reveals or rustications are recommended at joints to simplify forming, accentuate the texture and reduce grout leakage.

Form Release

Formliners should be sprayed with a premium form release before each use and within the same day concrete is placed. Form release should be applied with a low-flow, wide-angle, flat-spray nozzle and wipe with a cloth to insure an evenly-coated formliner surface. Formliners should always be covered when not in use.



Technical Data

Thermoform

HIPS - High Impact Polystyrene

ABS - Acrylonitrile Butadiene Styrene

Elastomeric

PE - Polyurethane Elastomer

PPE - Premium Polyurethane Elastomer

Standard Formliners

HIPS Formliners can be used to provide a textured concrete surface, in a limited application, at an affordable price. Single use only.

ABS Formliners exhibit impact resistance and UV shielding to reduce the damaging effects of sunlight. Multiple uses up to 10 times.

Premium Multi-Use Formliners

PE Formliners combine great resilience and high-tensile strength into a long-wearing surface. Multiple uses up to 40-50 times.

PPE Formliners provide exceptional reproduction of the most difficult and complex designs for a consistent appearance. Multiple uses up to 100+ times.

HIPS - High Impact Polystyrene (Single use only)

Properties	Rating	ASTM
IZOD Impact, ft.-lb/in. @70°F	2.0	D256
@0°F	1.3	D256
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	

PE - Polyurethane Elastomer (Multiple uses up to 40-50 times)

Properties	Rating	ASTM
Shore A Hardness	45-50	D2240
Tear Strength, PLI	55	D624
Tensile Strength, psi	500	D638 (D412)
Ultimate Elongation	240%	D638 (D412)

PPE - Premium Polyurethane Elastomer (Multiple uses up to 100+ times)

Properties	Rating	ASTM
Shore A Hardness	60-65	D2240
Tear Strength, PLI	120	D624
Tensile Strength, psi	1150	D638 (D412)
Ultimate Elongation	1200%	D638 (D412)

ABS - Acrylonitrile-Butadiene Styrene (Multiple uses up to 10 times)

Properties	Rating	ASTM
IZOD Impact, ft.-lb/in. @73°	5.6	D256
@0°	1.9	D256
Tensile Strength	5,300 psi	D638
Heat Deflection @264 psi	199	D648
@66 psi	211	D648
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	

Manufacturing Tolerances @ 70F (All patterns, all materials)

Standard size: 4'x10'
Length: +1" to 2", -0" (shipped long for field trimming)
Width: ± 1/4"
Thickness: ± 1/16" at edge (except formliners over 1" thick)
Custom size: At customer request, additional charge.

Leave a lasting impression in concrete with American Formliners!



More patterns...

- Trapezoids
- Stones
- Wood Grains
- Fractured Fins
- Masonry
- Custom Services

More possibilities...

- State-of-the-art manufacturing by an industry-trusted name
- Single-use, multi-use and extended-use material options
- Hard-to-find pattern lengths for greater forming versatility
- End-to-end and side-to-side matching for seamless appearance
- Cost-effective material pricing with nationwide availability
- Custom design capability for unique forming applications



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