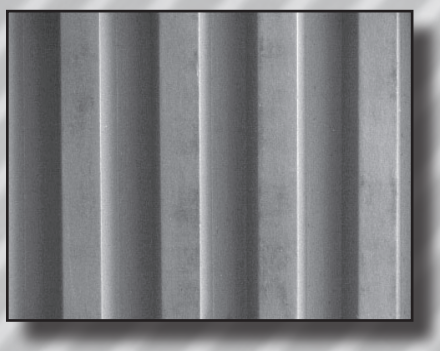
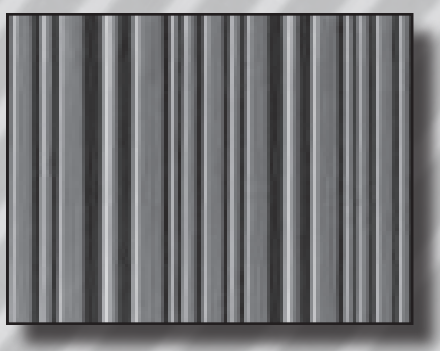
American Formliners

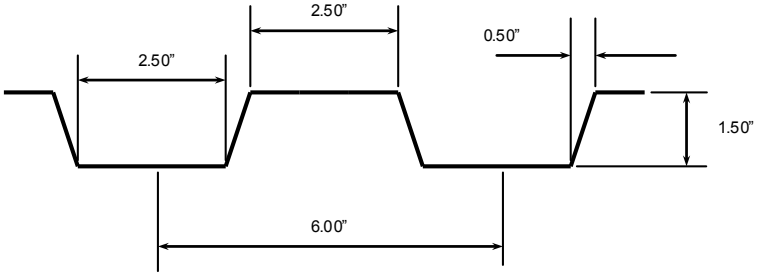


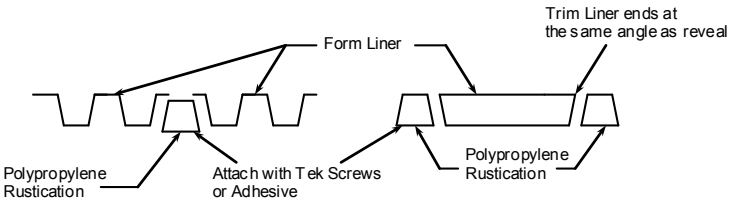


Trapezoid Patterns

Trapezoid Patterns

Trapezoid 1100 - 1-1/2” Deep 6” O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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.

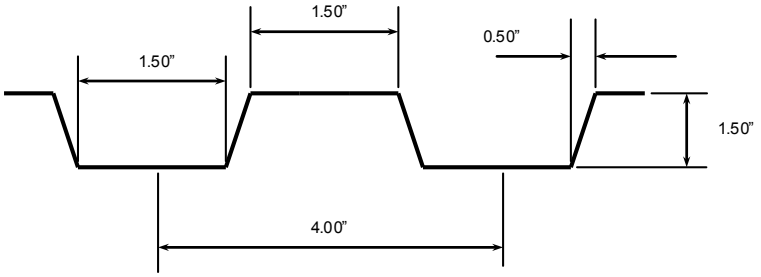
Rate-of-Pour – Formliners are typically designed to withstand concrete placement of five feet per hour, but there are other materials/methods available if an application exceeds this limit.

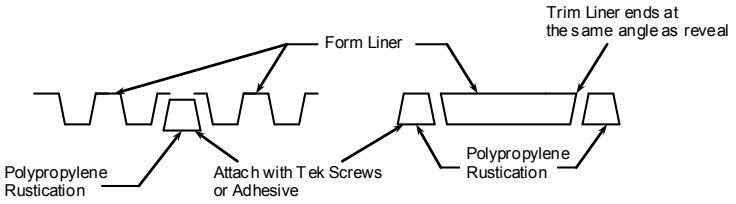
Attachment
Formliners are used in cast-in-place, precast or tilt-up. All mounting surfaces should be clean and dry. ABS and HIPS materials can be installed using screws or staples. PE and PPE materials are typically plywood-mounted with adhesive and subsequently bolted to formwork. Adhesive tapes, foam 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.

Trapezoid 1101 - 1-1/2” Deep 4” O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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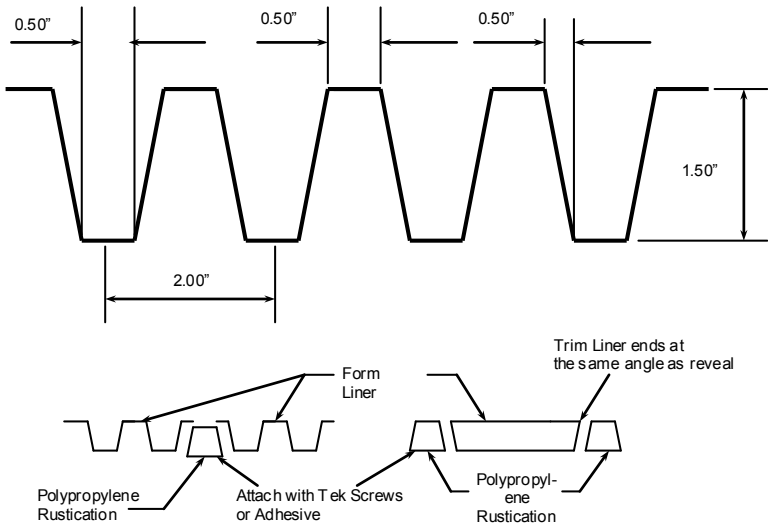
Form Release
Formliners should be sprayed with a premium form release before each use and within the same day concrete is placed. Form release should be applied with a low-flow, wide-angle, flat-spray nozzle and wipe with a cloth to insure an evenly-coated formliner surface. Formliners should always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

Trapezoid 1102 - 1-1/2" Deep 2" O.C.



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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1" thick)
Custom size: At customer request, additional charge.

Application Summary

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 HIPS 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.

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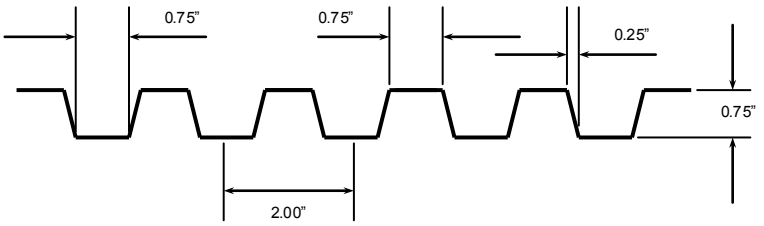
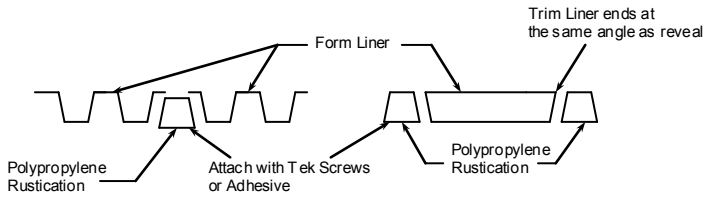
The formwork must be properly aligned and in common planes. A "stack up" of tolerances can result in a noticeable "step" in the finished concrete surface, especially with "shallow" formliner patterns. Reveals or rustications are recommended at joints to simplify forming, accentuate the texture and reduce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

Trapezoid 1104 - 3/4" Deep 2" O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1" thick)
Custom size: At customer request, additional charge.

Application Summary

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.

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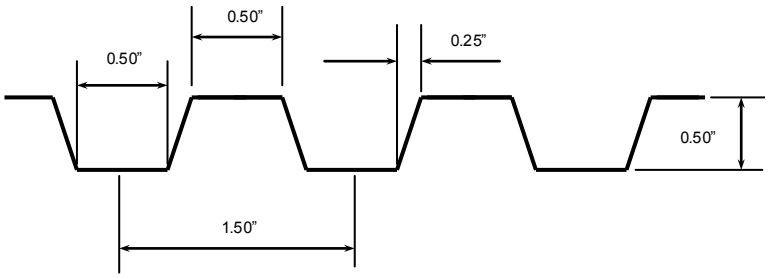
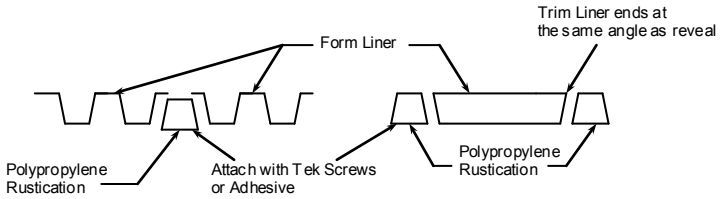
Trapezoid 1105 - 1/2” Deep 1-1/2” O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

Tolerances @ 70F
(All patterns, all materials)

Standard size: 4’x10’
Length: +1” to 2”, -0” (shipped long for field trimming)
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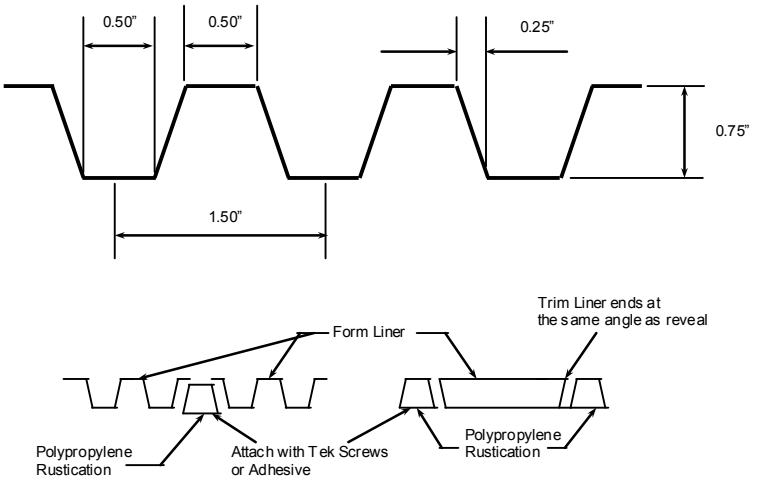
Trapezoid 1106 - 3/4” Deep 1-1/2” O.C.



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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
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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.

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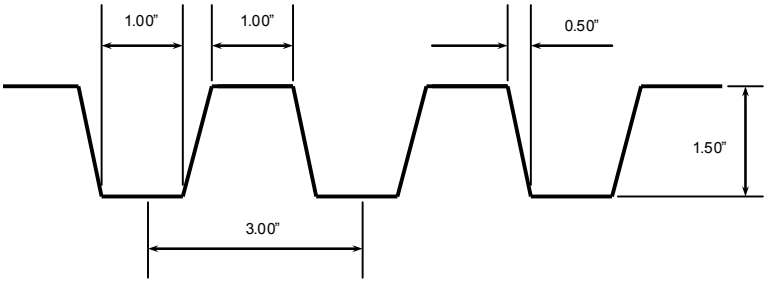
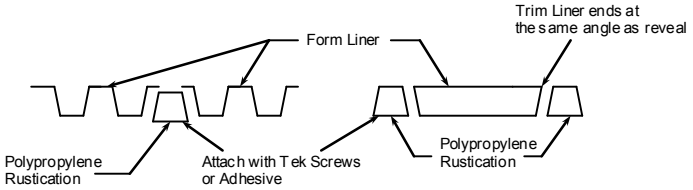
Trapezoid 1107 - 1-1/2” Deep 3” O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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.

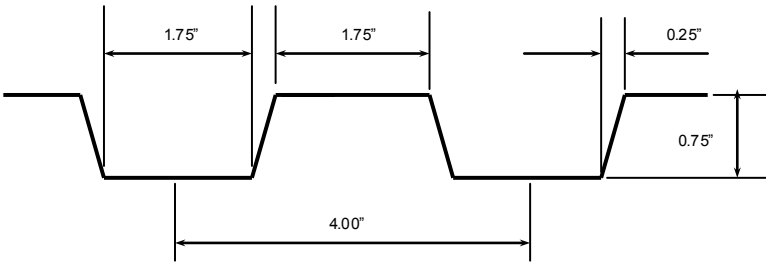
Rate-of-Pour – Formliners are typically designed to withstand concrete placement of five feet per hour, but there are other materials/methods available if an application exceeds this limit.

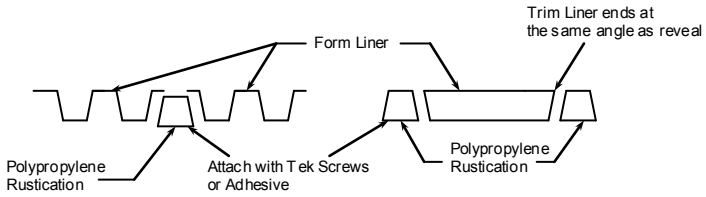
Attachment
Formliners are used in cast-in-place, precast or tilt-up. All mounting surfaces should be clean and dry. ABS and HIPS materials can be installed using screws or staples. PE and PPE materials are typically plywood-mounted with adhesive and subsequently bolted to formwork. Adhesive tapes, foam 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.

Trapezoid 1108 - 3/4" Deep 4" O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1" thick)
Custom size: At customer request, additional charge.

Application Summary

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.

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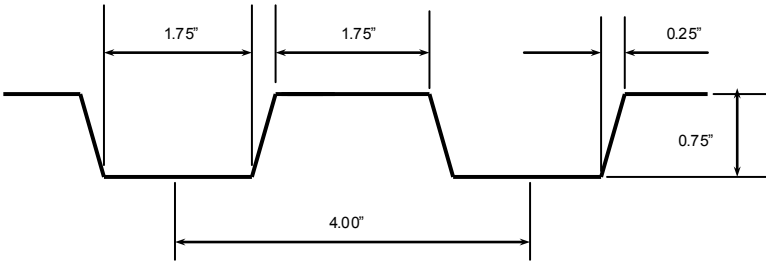
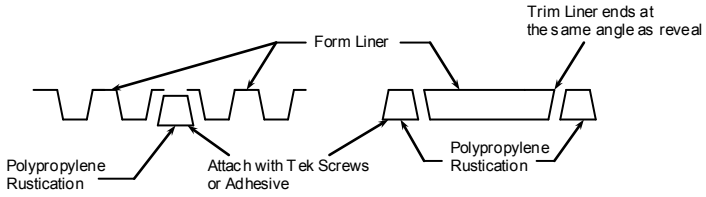
Form Release
Formliners should be sprayed with a premium form release before each use and within the same day concrete is placed. Form release should be applied with a low-flow, wide-angle, flat-spray nozzle and wipe with a cloth to insure an evenly-coated formliner surface. Formliners should always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

Trapezoid 1109 - 1/2” Deep 6” O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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.

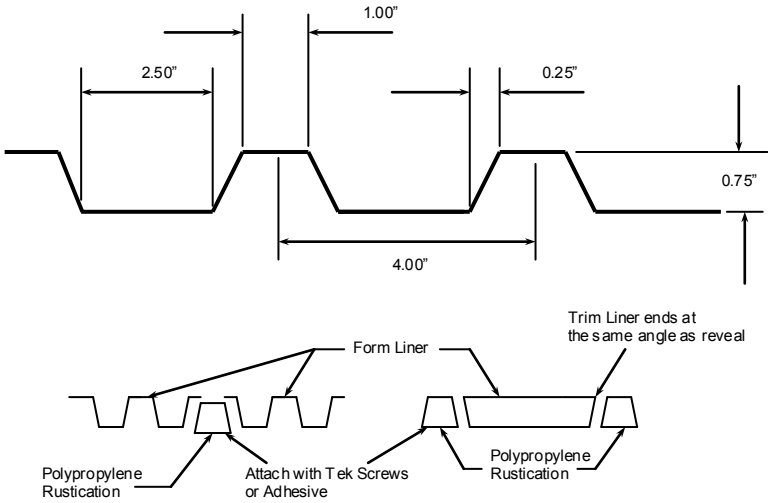
Rate-of-Pour – Formliners are typically designed to withstand concrete placement of five feet per hour, but there are other materials/methods available if an application exceeds this limit.

Attachment
Formliners are used in cast-in-place, precast or tilt-up. All mounting surfaces should be clean and dry. ABS and HIPS 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.

Trapezoid 1110 - 3/4" Deep 4" O.C.



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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1" thick)
Custom size: At customer request, additional charge.

Application Summary

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.

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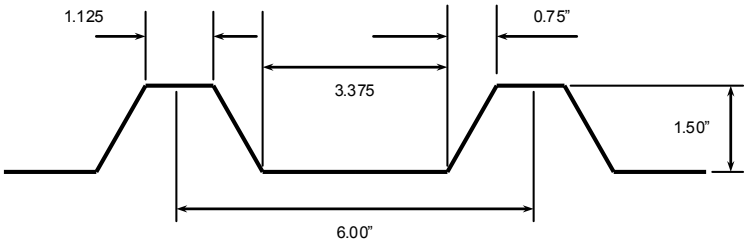
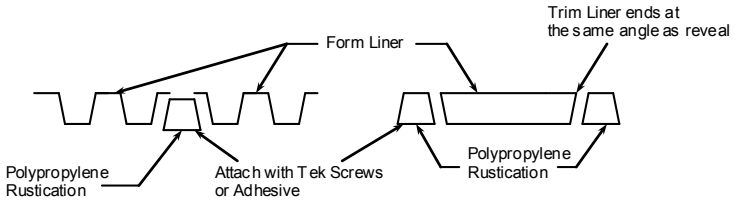
Form Release
Formliners should be sprayed with a premium form release before each use and within the same day concrete is placed. Form release should be applied with a low-flow, wide-angle, flat-spray nozzle and wipe with a cloth to insure an evenly-coated formliner surface. Formliners should always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

Trapezoid 1111 - 1-1/2” Deep 6” O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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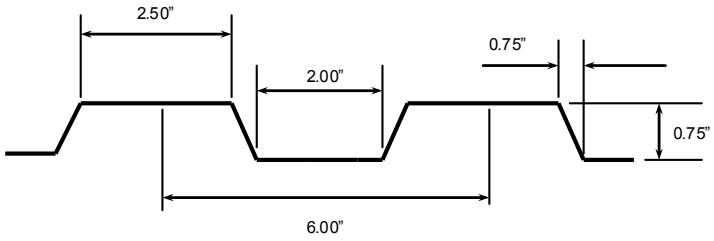
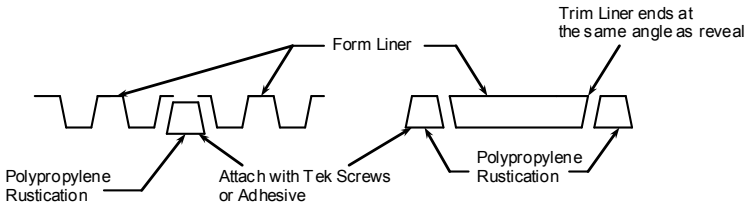
Formliners should be sprayed with a premium form release before each use and within the same day concrete is placed. Form release should be applied with a low-flow, wide-angle, flat-spray nozzle and wipe with a cloth to insure an evenly-coated formliner surface. Formliners should always be covered when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

Trapezoid 1112 - 3/4" Deep 6" O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1" thick)
Custom size: At customer request, additional charge.

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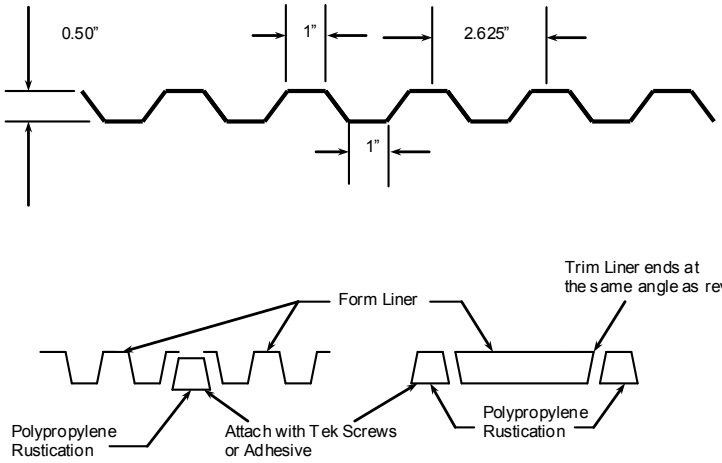
Trapezoid 1113 - 1/2” Deep 2-13/16” O.C.



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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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.

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Formliners are used in cast-in-place, precast or tilt-up. All mounting surfaces should be clean and dry. ABS and HIPS 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.

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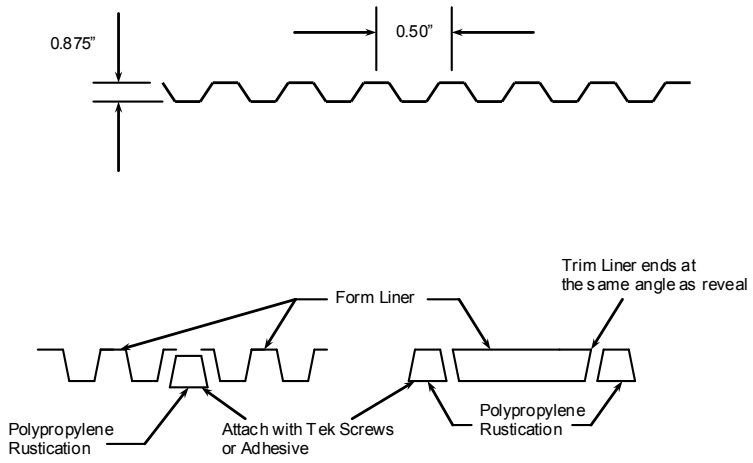
Form Release
Formliners should be sprayed with a premium form release before each use and within the same day concrete is placed. Form release should be applied with a low-flow, wide-angle, flat-spray nozzle and wipe with a cloth to insure an evenly-coated formliner surface. Formliners should always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

Trapezoid 1114 - 7/8” Deep 1/2” O.C.



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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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.

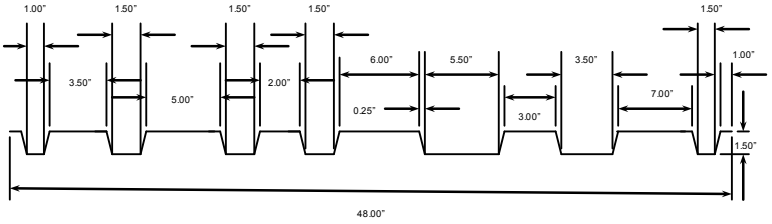
Rate-of-Pour – Formliners are typically designed to withstand concrete placement of five feet per hour, but there are other materials/methods available if an application exceeds this limit.

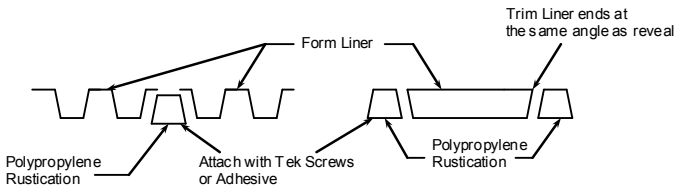
Attachment
Formliners are used in cast-in-place, precast or tilt-up. All mounting surfaces should be clean and dry. ABS and HIPS materials can be installed using screws or staples. PE and PPE materials are typically plywood-mounted with adhesive and subsequently bolted to formwork. Adhesive tapes, foam 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.

Trapezoid 1116 - ADOT Random 1-1/2" Deep





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1" thick)
Custom size: At customer request, additional charge.

Application Summary

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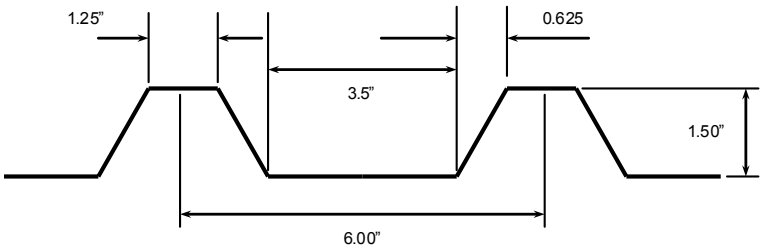
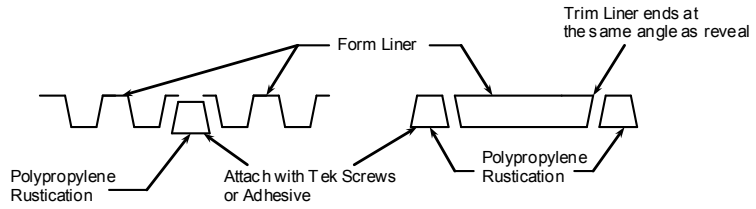
Form Release
Formliners should be sprayed with a premium form release before each use and within the same day concrete is placed. Form release should be applied with a low-flow, wide-angle, flat-spray nozzle and wipe with a cloth to insure an evenly-coated formliner surface. Formliners should always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

Trapezoid 1117- 1-1/2” Deep 6” O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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 HIPS 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.

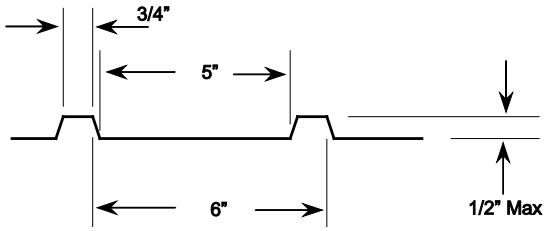
Alignment

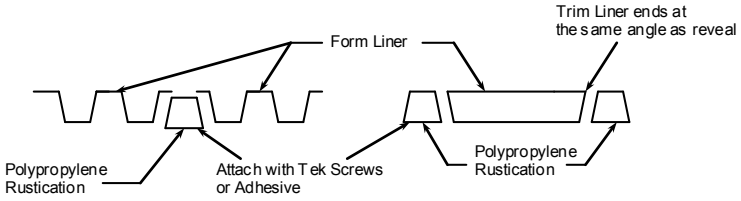
The formwork must be properly aligned and in common planes. A “stack up” of tolerances can result in a noticeable “step” in the finished concrete surface, especially with “shallow” formliner patterns. Reveals or rustications are recommended at joints to simplify forming, accentuate the texture and reduce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

Trapezoid 1121 - 1/2" Deep 6" O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1" thick)
Custom size: At customer request, additional charge.

Application Summary

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.

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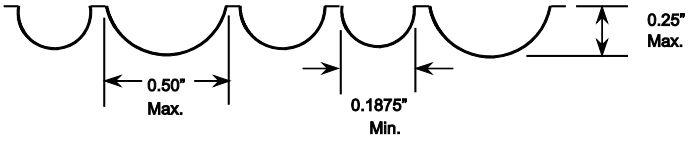
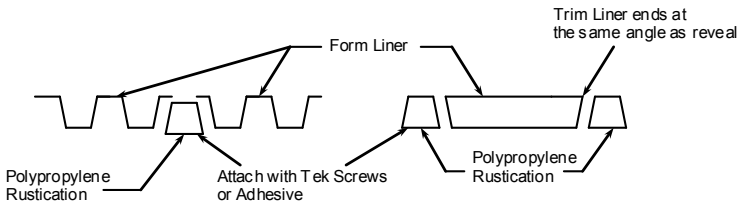
Form Release
Formliners should be sprayed with a premium form release before each use and within the same day concrete is placed. Form release should be applied with a low-flow, wide-angle, flat-spray nozzle and wipe with a cloth to insure an evenly-coated formliner surface. Formliners should always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

Trapezoid 1122 - Random Striations





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1" thick)
Custom size: At customer request, additional charge.

Application Summary

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.

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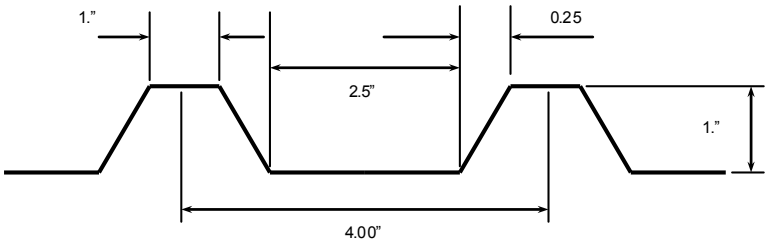
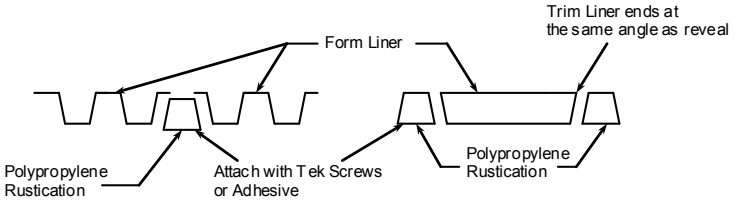
Form Release
Formliners should be sprayed with a premium form release before each use and within the same day concrete is placed. Form release should be applied with a low-flow, wide-angle, flat-spray nozzle and wipe with a cloth to insure an evenly-coated formliner surface. Formliners should always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

Trapezoid 1127 - 1” Deep 4” O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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.

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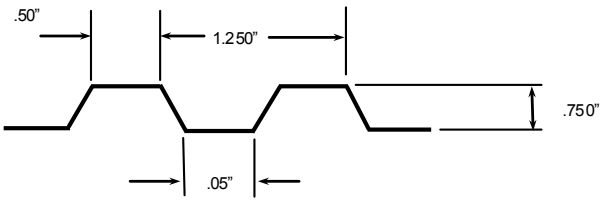
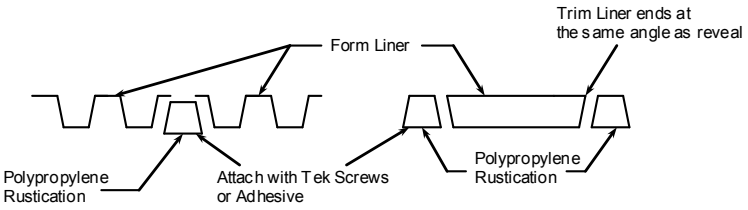
Form Release
Formliners should be sprayed with a premium form release before each use and within the same day concrete is placed. Form release should be applied with a low-flow, wide-angle, flat-spray nozzle and wipe with a cloth to insure an evenly-coated formliner surface. Formliners should always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

Trapezoid 1138 - 3/4" Deep 1-1/4" O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1" thick)
Custom size: At customer request, additional charge.

Application Summary

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.

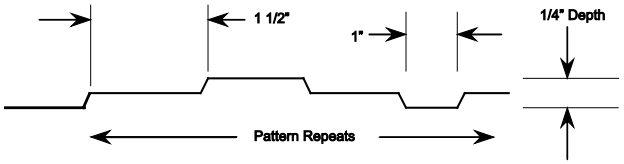
Rate-of-Pour – Formliners are typically designed to withstand concrete placement of five feet per hour, but there are other materials/methods available if an application exceeds this limit.

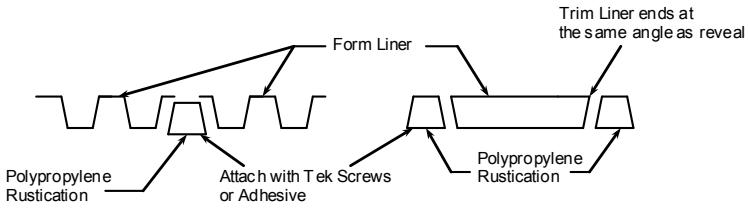
Attachment
Formliners are used in cast-in-place, precast or tilt-up. All mounting surfaces should be clean and dry. ABS and HIPS materials can be installed using screws or staples. PE and PPE materials are typically plywood-mounted with adhesive and subsequently bolted to formwork. Adhesive tapes, foam 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.

Trapezoid 1153 - 1/4" Deep Tri-Level





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1" thick)
Custom size: At customer request, additional charge.

Application Summary

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.

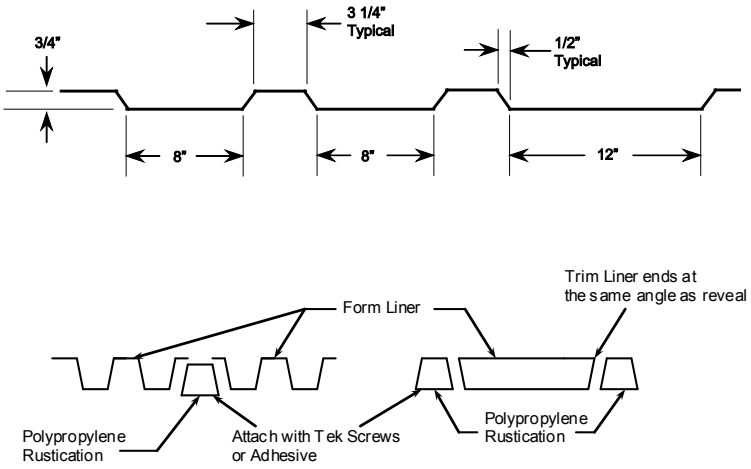
Rate-of-Pour – Formliners are typically designed to withstand concrete placement of five feet per hour, but there are other materials/methods available if an application exceeds this limit.

Attachment
Formliners are used in cast-in-place, precast or tilt-up. All mounting surfaces should be clean and dry. ABS and HIPS 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.

Trapezoid 1156 - 3/4” Deep Rib



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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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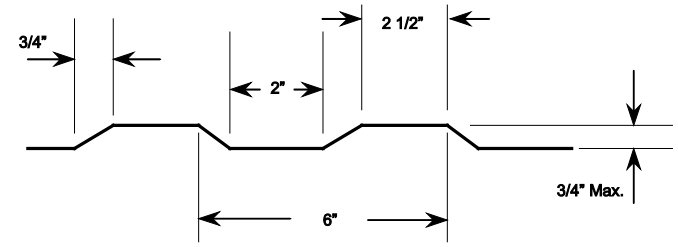
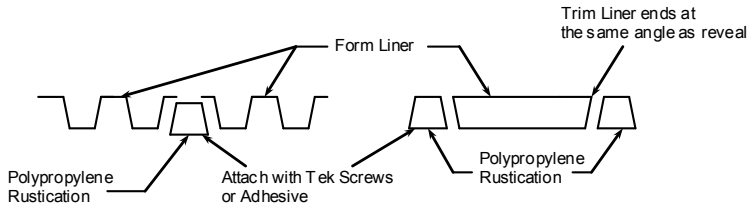
Form Release
Formliners should be sprayed with a premium form release before each use and within the same day concrete is placed. Form release should be applied with a low-flow, wide-angle, flat-spray nozzle and wipe with a cloth to insure an evenly-coated formliner surface. Formliners should always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

Trapezoid 1180 - 3/4” Deep 6” O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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.

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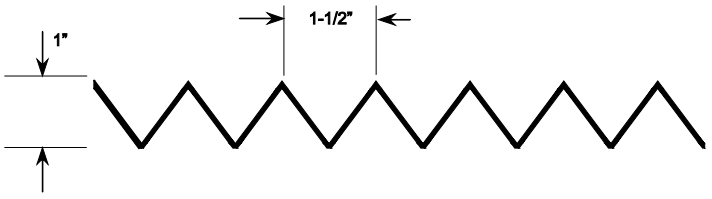
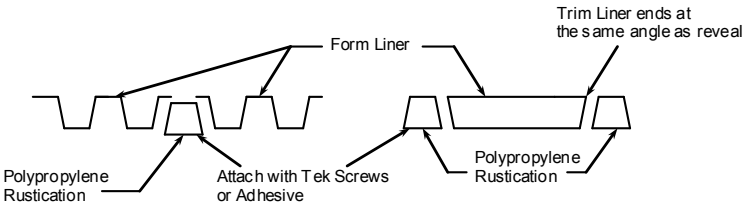
Alignment
The formwork must be properly aligned and in common planes. A “stack up” of tolerances can result in a noticeable “step” in the finished concrete surface, especially with “shallow” formliner patterns. Reveals or rustications are recommended at joints to simplify forming, accentuate the texture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

Trapezoid 1181 - Saw Tooth 1” Deep 1-1/2” O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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
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Alignment
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Form Release
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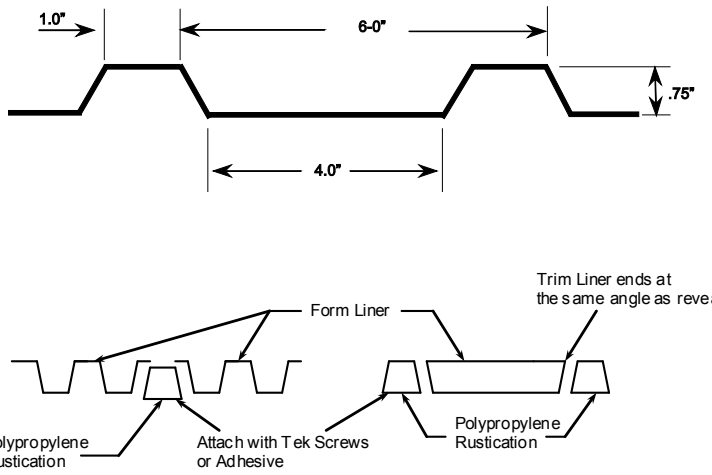
Trapezoid 1195 - 3/4" Deep 6" O.C.



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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1" thick)
Custom size: At customer request, additional charge.

Application Summary

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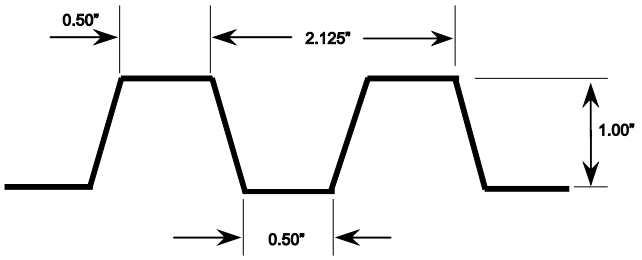
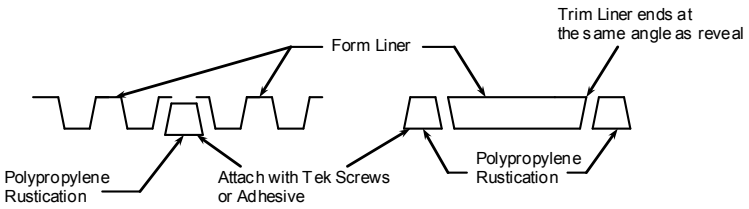
Alignment
The formwork must be properly aligned and in common planes. A "stack up" of tolerances can result in a noticeable "step" in the finished concrete surface, especially with "shallow" formliner patterns. Reveals or rustications are recommended at joints to simplify forming, accentuate the texture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

Trapezoid 1196 - 1” Deep 2-1/8” O.C.





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	

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	

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
Ultimate Elongation	40%	D638

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
Ultimate Elongation	1200%	D638

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 over 1” thick)
Custom size: At customer request, additional charge.

Application Summary

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American Formliners Warranty

American Formliners Inc. (hereafter known as Supplier) warrants that the Supplier of concrete accessory products sold to Purchaser will be free from defects in materials and workmanship for a period of six (6) months from the date of delivery, and the Supplier will repair, or in its sole discretion, replace, any Product or part thereof found to be defective at the time of delivery if such Product or part is returned (at Purchaser's expense and risk) and received by the Supplier within ten (10) days after the applicable warranty period. Descriptions, representations and other information concerning the Supplier contained in the Supplier's catalogs, advertisements or other promotional materials or statements or representations made by the Supplier's sales agents or representatives shall not be binding upon the Supplier and shall not be part of this limited warranty unless expressly identified in writing as PRODUCT SPECIFICATIONS.

This limited warranty does not cover normal maintenance, or items consumed during installation or normal operations, normal wear and tear, use under circumstances exceeding specifications, use for purposes other than the use for which the Products were intended, abuse, unauthorized repair or alteration, improper installation, failure to follow the Supplier's printed instructions, guidelines and recommendations for installation and use, lack of proper maintenance or damage caused by natural causes such as fire, storm, or flood. Purchaser shall determine the suitability of the Product for his intended use and Purchaser assumes all liabilities and risks whatsoever in connection therewith.

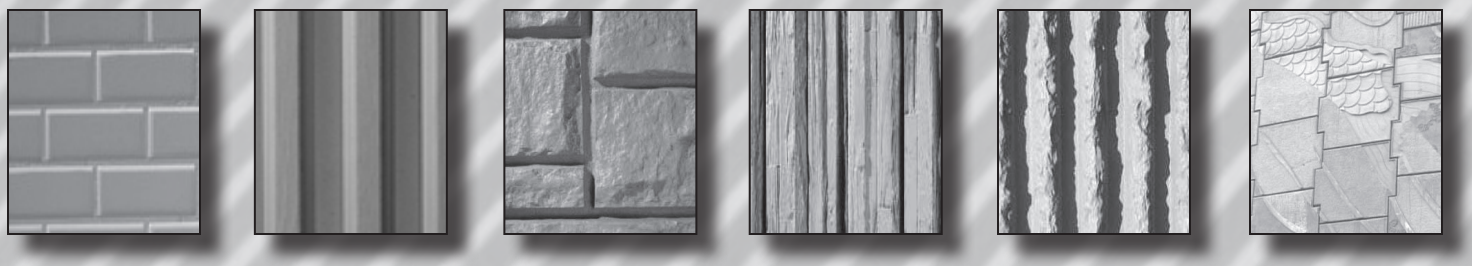
This limited warranty is Purchaser's exclusive remedy. It shall not be deemed to have failed of its essential purpose so long as the Supplier is willing and able to repair or replace defective products or parts thereof in the manner specified. No allowance will be made or repairs made by Purchaser.

Except as herein provided, the Supplier shall not be liable to Purchaser in any manner with respect to the Products. In no event shall the Supplier liability to Purchaser ever exceed the purchase price of the allegedly defective Product. Except as herein provided, the Supplier shall not be liable for transportation, labor or other charges for adjustments, repairs, replacements of parts, installation, or other work, which may be done upon or in connection with the Products sold.

THE SUPPLIER SHALL NOT IN ANY EVENT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING LOST PROFITS, whether arising from any defect in the Products, any use of the Products, from Purchaser's inability to use the Products, or otherwise. This limited warranty applies to only products made by the Supplier.

NO OTHER EXPRESS AND NO IMPLIED WARRANTIES OF ANY TYPE, WHETHER FOR MERCHANTABILITY, FITNESS FOR A PARTICULAR USE, OR OTHERWISE, OTHER THAN THOSE EXPRESSLY SET FORTH ABOVE (WHICH ARE MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES) SHALL APPLY TO THE PRODUCTS.

Leave a lasting impression in concrete with American Formliners!



AMERICAN FORMLINERS PROVIDES THESE ADVANTAGES:

- 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

American Formliners

645 Airport Road • Centralia, IL 62801 • 877-533-5842 • Fax 618-533-5840

www.americanformliners.com