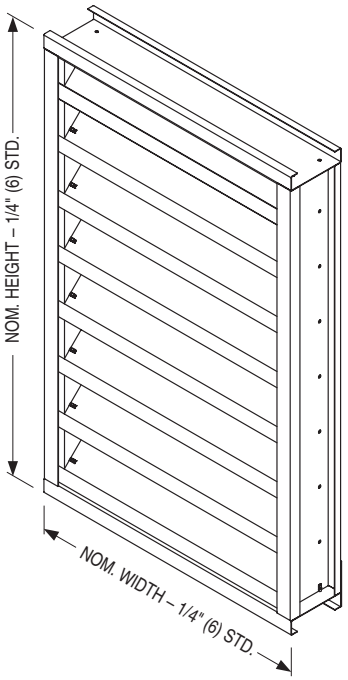
Nailor® Industries Inc.

FORMED STEEL STATIONARY LOUVER
4" (102) DEEP • DRAINABLE BLADE
MODEL: 1704D

Model 1704D, drainable blade type formed louver, provides excellent weather protection in a 4" (102) deep frame, with good air performance and pleasing aesthetics that compliment any structure's exterior styling. Suitable for use in exhaust and low to medium velocity intake applications, the drainable blade design utilizes rain gutters that divert collected water down concealed side downspouts and out the sill. Galvanized steel construction is economical, yet durable and the design provides good air performance through it's 54% free area as well as excellent protection against the elements. Model 1704D is available with channel or flanged type frame to suit most architectural and mechanical installation requirements and is AMCA Licensed.



STANDARD CONSTRUCTION:

FRAME: 4" (102) deep, 20 ga. (1.0) formed galvanized steel.

BLADES: 20 ga. (1.0) formed galvanized steel. Drainable style.

BLADE ANGLE: Fixed at 45 degrees.

BLADE SPACING: Approx. 4" (102) on centers.

SCREEN: 1/2" x 1/2" x 19 ga. (13 x 13 x 1.0) galvanized bird screen in removable frame (adds approximately 3/8" [10] to louver depth).

FINISH: Mill.

MINIMUM SIZE: 12" wide x 12" high (305 x 305).

MAXIMUM SINGLE SECTION SIZE: 60" wide x 96" high (1524 x 2438). Larger louvers will require field assembly of smaller sections.

OPTIONS:

- ❑ **FL15** Flanged Frame, 1 1/2" (38).
- ❑ **FL20** Flanged Frame, 2" (51).
- ❑ **BSA** Aluminum Bird Screen.
- ❑ **BSSS** Type 304 S.S. Bird Screen.
- ❑ **BSN** No Bird Screen.
- ❑ **ISA** Aluminum Insect Screen.
- ❑ **ISSS** Type 304 S.S. Insect Screen.
- ❑ **18GA** 18 Gauge Construction.
- ❑ **16GA** 16 Gauge Construction.
- ❑ **304** Type 304 S.S. Construction.
- ❑ **316** Type 316 S.S. Construction.
- ❑ **WE** Welded Construction.
- ❑ **ESI** Extended Sill.
- ❑ **FR1** 1" (25) Filter Rack.
- ❑ **FR2** 2" (51) Filter Rack.
- ❑ **PACA** Perimeter Anchor Clips.

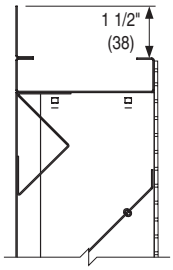
OPTIONAL FINISHES:

- ❑ **PC3** Powder Coat AAMA 2603. Color: _____ .
- ❑ **PC4** High Performance Powder Coat AAMA 2604 (Equivalent to 50% Kynar®). Color: _____ .
- ❑ **PC5** Fluoropolymer Powder Coat AAMA 2605 (Equivalent to 70% Kynar®). Color: _____ .
- ❑ **PCC** Prime Coat.

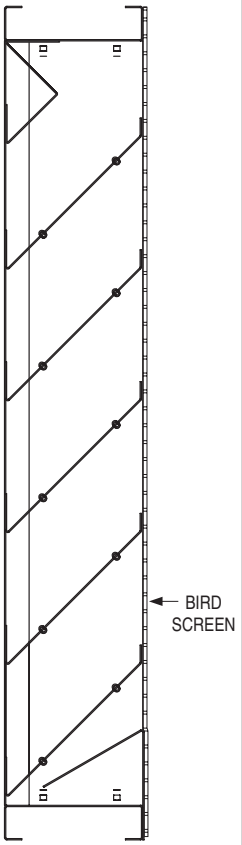
OPTIONAL W x H SIZING (1/4" [6.5] Undersize standard):

- ❑ **U00** Exact Size.
- ❑ **U38** Undersize 3/8" (9.5).
- ❑ **U50** Undersize 1/2" (12.7).

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OPT. FLANGED FRAME
(FL15 STD.)



SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**3 - 12 - 24**	**1700**	**12 - 1 - 10**	**1704D**

Dimensions are in inches (mm).

Nailor Industries Inc. reserves the right to change any information concerning product or pricing without notice.

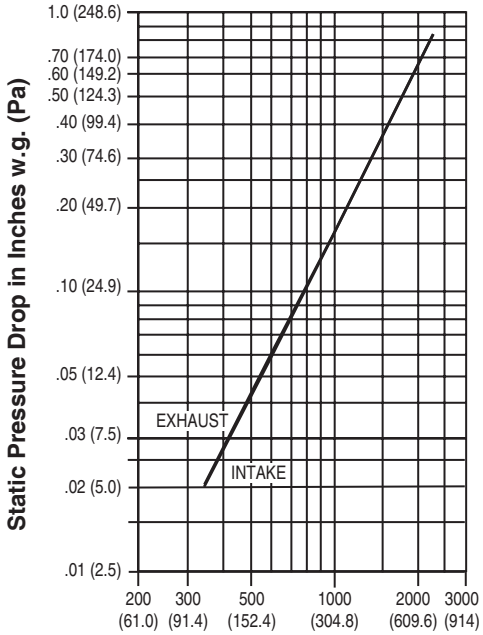
FORMED STEEL STATIONARY LOUVER
4" (102) DEEP • DRAINABLE BLADE
PERFORMANCE DATA
MODEL: 1704D

Nailor® Industries Inc.

FREE AREA in Square Feet and Square Meters

Height in Inches and Meters	Width in Inches and Meters								
	12 0.30	18 0.46	24 0.61	30 0.76	36 0.91	42 1.07	48 1.22	54 1.37	60 1.52
12 0.30	0.38 0.04	0.62 0.06	0.85 0.08	1.09 0.10	1.32 0.12	1.55 0.14	1.79 0.17	2.02 0.19	2.18 0.20
18 0.46	0.58 0.05	0.93 0.09	1.29 0.12	1.65 0.15	2.00 0.19	2.36 0.22	2.72 0.25	3.07 0.29	3.31 0.31
24 0.61	0.88 0.08	1.42 0.13	1.96 0.18	2.51 0.23	3.05 0.28	3.59 0.33	4.13 0.38	4.67 0.43	5.03 0.47
30 0.76	1.08 0.10	1.74 0.16	2.40 0.22	3.07 0.29	3.73 0.35	4.39 0.41	5.06 0.47	5.72 0.53	6.16 0.57
36 0.91	1.28 0.12	2.06 0.19	2.85 0.26	3.63 0.34	4.41 0.41	5.20 0.48	5.98 0.56	6.77 0.63	7.29 0.68
42 1.07	1.58 0.15	2.55 0.24	3.52 0.33	4.49 0.42	5.46 0.51	6.43 0.60	7.40 0.69	8.37 0.78	9.02 0.84
48 1.22	1.77 0.16	2.87 0.27	3.96 0.37	5.05 0.47	6.14 0.57	7.24 0.67	8.69 0.81	9.42 0.88	10.15 0.94
54 1.37	2.08 0.19	3.35 0.31	4.63 0.43	5.91 0.55	7.19 0.67	8.47 0.79	9.74 0.91	11.02 1.02	11.87 1.10
60 1.52	2.27 0.21	3.67 0.34	5.07 0.47	6.47 0.60	7.87 0.73	9.27 0.86	10.67 0.99	12.07 1.12	13.00 1.21
66 1.68	2.58 0.24	4.16 0.39	5.75 0.53	7.33 0.68	8.92 0.83	10.50 0.98	12.09 1.12	13.67 1.27	14.73 1.37
72 1.83	2.77 0.26	4.48 0.42	6.19 0.57	7.89 0.73	9.60 0.89	11.31 1.05	13.01 1.21	14.72 1.37	15.86 1.47
78 1.98	3.08 0.29	4.97 0.46	6.86 0.64	8.75 0.81	10.64 0.99	12.54 1.16	14.43 1.34	16.32 1.52	17.58 1.63
84 2.13	3.27 0.30	5.29 0.49	7.30 0.68	9.31 0.87	11.33 1.05	13.34 1.24	15.36 1.43	17.37 1.61	18.71 1.74
90 2.29	3.57 0.33	5.77 0.54	7.97 0.74	10.17 0.95	12.37 1.15	14.57 1.35	16.77 1.56	18.97 1.76	20.44 1.90
96 2.44	3.77 0.35	6.09 0.57	8.41 0.78	10.74 1.00	13.06 1.21	15.38 1.43	17.70 1.64	20.02 1.86	21.57 2.00

PRESSURE DROP



Air Velocity in Feet (Meters) Per Minute Through Free Area

Louver test size: 48" x 48" (1219 x 1219 mm). Standard air density @ 0.075 lbs/ft^3.
Tested to AMCA Fig. 5.5-6.5.

AIRFLOW / WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size

	Free Area % Free Area sq. ft. (sq. m.)	54% 8.69 (0.81)
INTAKE	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	990 fpm (302 m/min.)
	Air Volume at 990 fpm Free Area Velocity	8,603 cfm (4060 l/s)
	Pressure Drop @990 fpm	.16 in. w.g. (40 Pa)

NOTE: To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is **below** the point of beginning water penetration.

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Nailor Industries Inc. certifies that the Model 1704D shown herein is licensed to bear the AMCA Certified Ratings Program seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Program seal applies to Water Penetration and Air Performance ratings.

Louvers were tested in accordance with AMCA Standard 500-L.

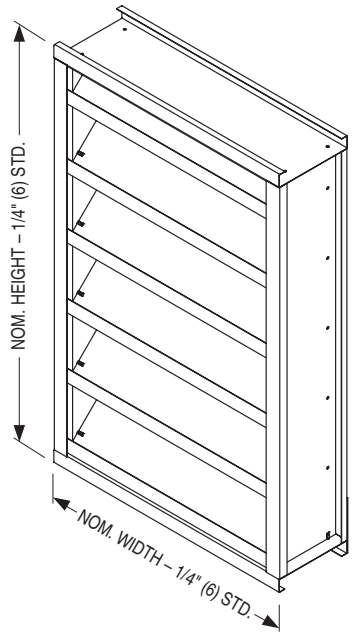
SCHEDULE TYPE:	Page 2 of 2 Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**3 - 12 - 24**	**1700**	**12 - 1 - 10**	**1704D**

Nailor Industries Inc. reserves the right to change any information concerning product or pricing without notice.

FORMED STEEL STATIONARY LOUVER
6" (152) DEEP • DRAINABLE BLADE
MODEL: 1706D

Nailor® Industries Inc.

Model 1706D, drainable blade type formed louver, provides excellent weather protection in a 6" (152) deep frame, with good air performance and pleasing aesthetics that compliment any structure's exterior styling. Suitable for use in exhaust and low to medium velocity intake applications, the drainable blade design utilizes rain gutters that divert collected water down concealed side downspouts and out the sill. Galvanized steel construction is economical, yet durable and the design provides good air performance through it's 50% free area as well as excellent protection against the elements. Model 1706D is available with channel or flanged type frame to suit most architectural and mechanical installation requirements and is AMCA Licensed.



STANDARD CONSTRUCTION:

FRAME: 6" (152) deep, 18 ga. (1.3) formed galvanized steel.

BLADES: 20 ga. (1.0) formed galvanized steel. Drainable style.

BLADE ANGLE: Fixed at 45 degrees.

BLADE SPACING: Approx. 5 1/2" (140) on centers.

SCREEN: 1/2" x 1/2" x 19 ga. (13 x 13 x 1.0) galvanized bird screen in removable frame (adds approximately 3/8" [10] to louver depth).

FINISH: Mill.

MINIMUM SIZE: 12" wide x 12" high (305 x 305).

MAXIMUM SINGLE SECTION SIZE: 60" wide x 96" high (1524 x 2438). Larger louvers will require field assembly of smaller sections.

OPTIONS:

- ❑ **FL15** Flanged Frame, 1 1/2" (38).
- ❑ **FL20** Flanged Frame, 2" (51).
- ❑ **BSA** Aluminum Bird Screen.
- ❑ **BSSS** Type 304 S.S. Bird Screen.
- ❑ **BSN** No Bird Screen.
- ❑ **ISA** Aluminum Insect Screen.
- ❑ **ISSS** Type 304 S.S. Insect Screen.
- ❑ **18GA** 18 Gauge Construction.
- ❑ **16GA** 16 Gauge Construction.
- ❑ **304** Type 304 S.S. Construction.
- ❑ **316** Type 316 S.S. Construction.
- ❑ **WE** Welded Construction.
- ❑ **ESI** Extended Sill.
- ❑ **FR1** 1" (25) Filter Rack.
- ❑ **FR2** 2" (51) Filter Rack.
- ❑ **PACA** Perimeter Anchor Clips.

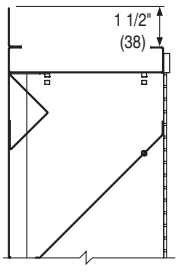
OPTIONAL FINISHES:

- ❑ **PC3** Powder Coat AAMA 2603. Color: _____ .
- ❑ **PC4** High Performance Powder Coat AAMA 2604 (Equivalent to 50% Kynar®). Color: _____ .
- ❑ **PC5** Fluoropolymer Powder Coat AAMA 2605 (Equivalent to 70% Kynar®). Color: _____ .
- ❑ **PCC** Prime Coat.

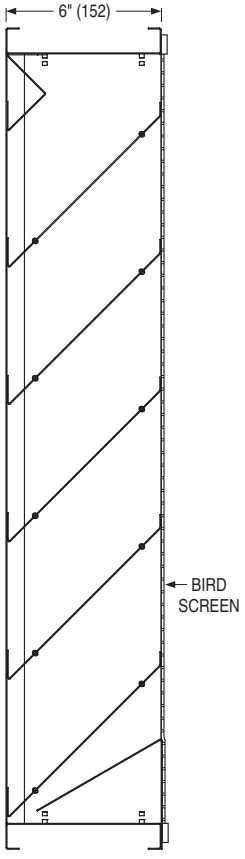
OPTIONAL W x H SIZING (1/4" [6.5] Undersize standard):

- ❑ **U00** Exact Size.
- ❑ **U38** Undersize 3/8" (9.5).
- ❑ **U50** Undersize 1/2" (12.7).

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OPT. FLANGED FRAME
(FL15 STD.)



SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**3 - 12 - 24**	**1700**	**10 - 1 - 12**	**1706D**

Dimensions are in inches (mm).

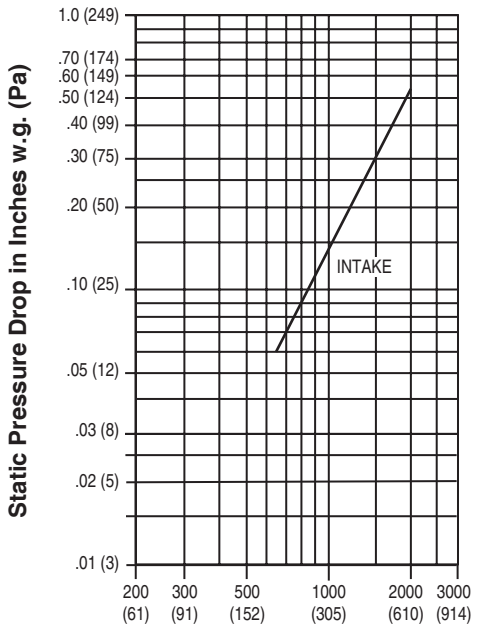
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FORMED STEEL STATIONARY LOUVER
6" (152) DEEP • DRAINABLE BLADE
PERFORMANCE DATA
MODEL: 1706D

FREE AREA in Square Feet and Square Meters

Height in Inches and Meters	Width in Inches and Meters								
	12 0.30	18 0.46	24 0.61	30 0.76	36 0.91	42 1.07	48 1.22	54 1.37	60 1.52
12 0.30	0.17 0.02	0.27 0.03	0.38 0.04	0.48 0.04	0.58 0.04	0.69 0.06	0.79 0.07	0.89 0.08	0.99 0.09
18 0.46	0.42 0.04	0.68 0.06	0.93 0.09	1.18 0.11	1.44 0.13	1.69 0.16	1.95 0.18	2.20 0.20	2.45 0.23
24 0.61	0.70 0.07	1.13 0.10	1.55 0.14	1.97 0.18	2.40 0.22	2.82 0.26	3.24 0.30	3.66 0.34	4.09 0.38
30 0.76	1.03 0.10	1.65 0.15	2.27 0.21	2.88 0.27	3.50 0.33	4.12 0.38	4.74 0.44	5.35 0.50	5.97 0.55
36 0.91	1.30 0.12	2.07 0.19	2.85 0.26	3.63 0.34	4.41 0.41	5.18 0.48	5.96 0.55	6.74 0.63	7.52 0.70
42 1.07	1.56 0.15	2.50 0.23	3.44 0.32	4.38 0.41	5.31 0.49	6.25 0.58	7.19 0.67	8.13 0.75	9.06 0.84
48 1.22	1.76 0.16	2.81 0.26	3.87 0.36	4.92 0.46	5.97 0.56	7.03 0.65	8.02 0.75	9.14 0.85	10.19 0.95
54 1.37	2.10 0.19	3.35 0.31	4.61 0.43	5.87 0.55	7.13 0.66	8.38 0.78	9.64 0.90	10.90 1.01	12.16 1.13
60 1.52	2.36 0.22	3.78 0.35	5.20 0.48	6.62 0.61	8.03 0.75	9.45 0.88	10.87 1.01	12.29 1.14	13.70 1.27
66 1.68	2.63 0.24	4.21 0.39	5.79 0.54	7.36 0.68	8.94 0.83	10.52 0.98	12.10 1.12	13.67 1.27	15.25 1.42
72 1.83	2.90 0.27	4.63 0.43	6.37 0.59	8.11 0.75	9.85 0.91	11.59 1.08	13.32 1.24	15.06 1.40	16.80 1.56
78 1.98	3.16 0.29	5.06 0.47	6.96 0.65	8.86 0.82	10.76 1.00	12.65 1.18	14.55 1.35	16.45 1.53	18.35 1.70
84 2.13	3.43 0.32	5.49 0.51	7.55 0.70	9.60 0.89	11.66 1.08	13.72 1.27	15.78 1.47	17.83 1.66	19.89 1.85
90 2.29	3.70 0.34	5.92 0.55	8.13 0.76	10.35 0.96	12.57 1.17	14.79 1.37	17.01 1.58	19.22 1.79	21.44 1.99
96 2.44	3.96 0.37	6.34 0.59	8.72 0.81	11.10 1.03	13.47 1.25	15.85 1.47	18.23 1.69	20.61 1.91	22.99 2.14

PRESSURE DROP



Air Velocity in Feet (Meters) Per Minute Through Free Area

Louver test size: 48" x 48" (1219 x 1219 mm). Standard air density @ 0.075 lbs/ft^3.
Tested to AMCA Fig. 5.5-6.5.

AIRFLOW/WATER PENETRATION DATA
for 48" x 48" (1219 x 1219) Louver Size

	Free Area % Free Area sq. ft. (sq. m.)	50% 8.02 (0.75)
INTAKE	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1087 fpm (331 m/min.)
	Air Volume at 1087 fpm Free Area Velocity	8,718 cfm (4144 l/s)
	Pressure Drop @1087 fpm	.17 in. w.g. (42 Pa)

NOTE: To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is **below** the point of beginning water penetration.

amca WORLDWIDE CERTIFIED RATINGS — WATER PENETRATION — AIR PERFORMANCE — AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.® www.amca.org

Nailor Industries Inc. certifies that the Model 1706D shown herein is licensed to bear the AMCA Certified Ratings Program seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Program seal applies to Water Penetration and Air Performance ratings.

Louvers were tested in accordance with AMCA Standard 500-L.

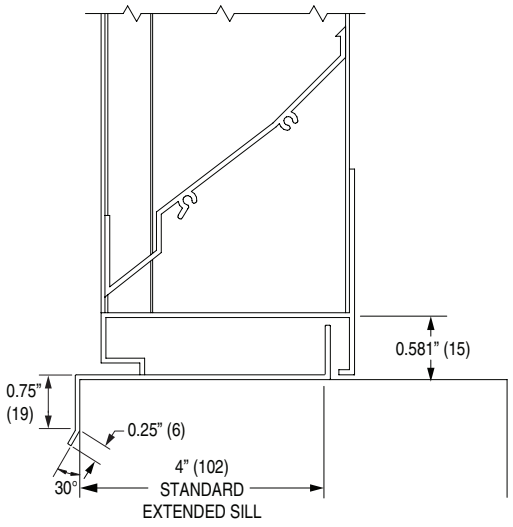
SCHEDULE TYPE:	Page 2 of 2 Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**3 - 12 - 24**	**1700**	**10 - 1 - 12**	**1706D**

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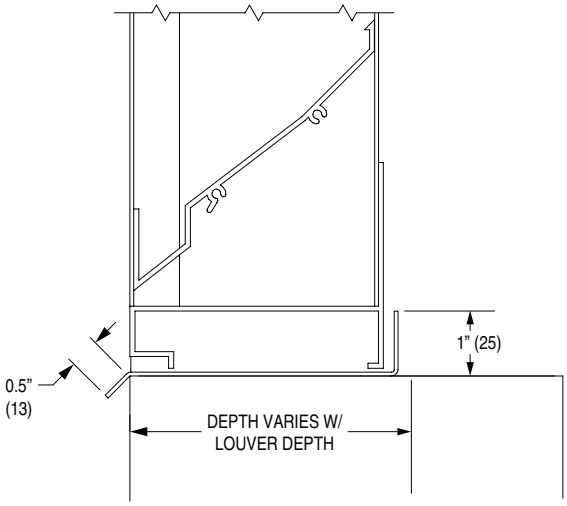
Nailor® Industries Inc.

LOUVER ACCESSORIES
MODEL SERIES: 1600 & 1700
ESI EXTENDED SILL & PASI SILL PAN

❑ **ESI** Extended Sill

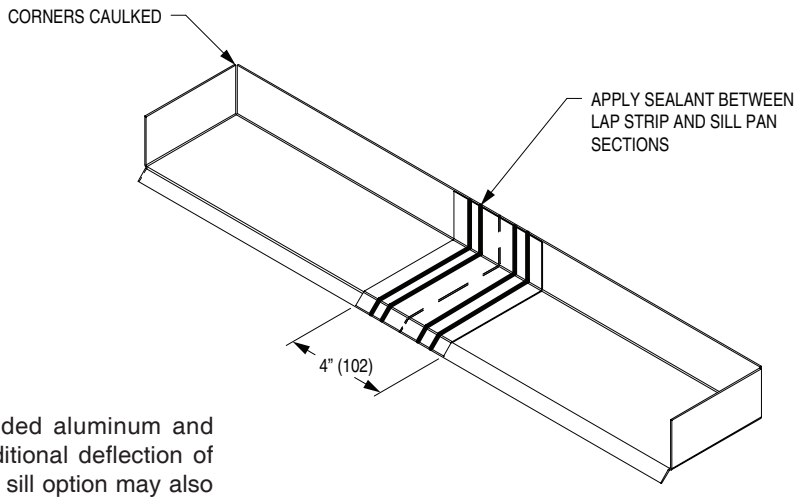


❑ **PASI** Sill Pan (Extended Sill with End Dams)



SILL PAN (Side View)

*Shipped in sections for multiple section width louvers where necessary.



APPLICATION:

Sill extensions are available on all Nailor extruded aluminum and formed steel louver models and can provide additional deflection of water away from the louver opening. An extended sill option may also provide a transition between the louver and adjacent structures.

NOTES:

1. The finish will match the louver.
2. When ordered, sill extensions are shipped loose for field installation.
3. Customization available upon request.

MATERIALS:

1. **ESI** Extended Sill 6063-T6 0.081" (2.1) thick extruded aluminum.
2. **PASI** Extended Sill 5052-H32 0.060" (1.5) thick formed aluminum

SCHEDULE TYPE:	Dimensions are in inches (mm).			
PROJECT:				
ENGINEER:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**1 - 29 - 26**	**ACC-ESI**	**New**	**ACC-ESI**

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Nailor® Louver Finishes & Color Guide


Slate Blue **LF01**


Medium Bronze **LF02**


Sandstone **LF03**


Light Gray **LF04**


Charcoal **LF05**


Bone White **LF06**


Western Tan **LF07**


Architectural Bronze **LF08**


Regal Blue **LF09**


Forest Green **LF10**


Surrey Beige **LF11**


Royal Brown **LF12**


Barn Red **LF13**


Burgundy **LF14**


Clay **LF15**

Almond **LF16**


Coastal White **LF17**


Vista Green **LF18**


Black **LF19**


Gloss Black **LF20**


Campus Green **LF21**

Nailor offers 21 standard paint colors selected for architectural exterior use which meet or exceed AAMA specifications and performance requirements for color retention, chalk resistance, gloss retention, erosion, corrosion and chemical resistance as well as dry film thickness and hardness. Our state-of-the-art powder coat system provides an environment friendly finishing solution with more uniform coverage and coating thickness. The result is an exceptional finish that better resists scratching, fading and general wear. Additional liquid coat facilities for special requirements complete our ability to provide unmatched beauty and durability for any application.

Custom color matching is also available upon request. Contact your local Nailor representative.

Available Finishes

FINISH TYPE	DESCRIPTION	STANDARD WARRANTY
Fluoropolymer Powder Coat AAMA 2605-Superior Finish (AKA: Powdura® 5000, Coraflon® Powder, Interpon® D3000-Fluoromax, IFS 500FP)	**"Ultimate"** - A next generation hyper durable powder coating, based on FEVE fluoropolymer resins and ceramic pigmentation that the industry has acknowledged as the foundation for superior performance coatings. They provide a hard surface that is resistant to scratching and scuffing, with superior color and gloss retention, when applied to a variety of exterior architectural applications. This technology represents the "ultimate" in environmentally friendly finishes, with Zero-VOC emissions. A superior alternative to traditional 70% Kynar 500® / Hylar 500® PVDF fluoropolymer liquid coatings.	10 years (20 years optional)
High Performance Powder Coat AAMA 2604 - High Performance Finish (AKA: Powdura® 4000, Envirocron® Ultra Durable Powder, Dynadure™ 400, Interpon® D2000, IFS 400SD)	**"Better"** - A high performance polyester powder coating, based on "super durable" resins that utilize infrared reflective pigments, which provides excellent resistance to outdoor weathering. A harder and more environmentally friendly coating than other liquid paint counterparts and with Zero-VOC emissions. A good alternative to 50% Kynar 500® / Hylar 5000® liquid coatings.	5 years
Durable Powder Coat AAMA 2603 - Pigmented Organic Coatings (AKA: Powdura® 3000, Envirocron® Durable Powder, Dynadure™ 300, Interpon® D1000, IFS 300SP)	**"Good"** - A durable powder coat based on thermosetting polyester resin technology. Provides a good economical combination of physical and chemical resistance properties. Environmentally superior to liquid spray paints and Zero – VOC emissions.	1 year
Clear Anodize 215-R1 AA-M10C22A41 (0.7 mil. min.)	Architectural Class I. Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack. Recommended for severely corrosive and abrasive atmospheric exposure.	5 years
Clear Anodize 204-R1 AA-M10C22A31 (0.4 - 0.7 mil.)	Architectural Class II. Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack. Recommended for normal weather exposure.	1 year
Color Anodize AA-M10C22A44 (0.7 mil. min.)	Architectural Class I. "Two-step" aluminum coating process. Following a standard anodizing procedure, a second electrolytic process deposits colored metallic pigments which penetrate the aluminum oxide pores, producing a corrosion resistant, colorfast finish. Available in light, medium, dark bronze and black.	5 years
Prime Coat	Prime coat provides a stable base for painting of louvers in the field. Surface pretreatment includes degreasing and a chemical cleaning before an epoxy prime coat is applied. Finish coat should be field applied as soon as possible for best adhesion, after a thorough cleaning for dust etc. that can contaminate the final finish and cause premature flaking or peeling.	N/A

Paint finish warranties are not applicable to steel products.

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