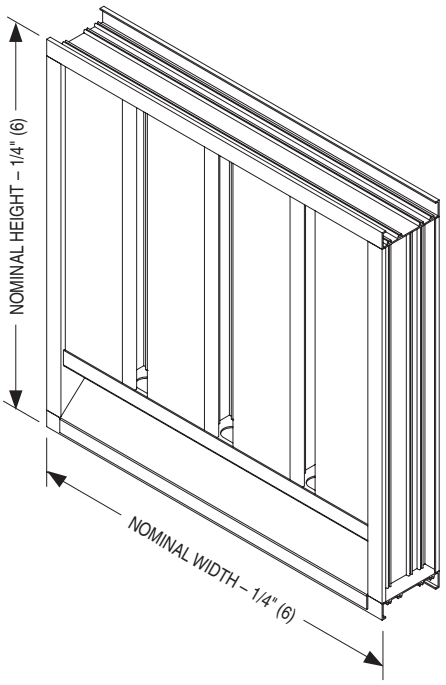
# Nailor® Industries Inc.

## EXTRUDED ALUMINUM SAND LOUVER
4" (102) DEEP • SIGHTPROOF
**MODEL: 1604SL**

Model 1604SL is a 4" (102) deep, extruded aluminum sand louver that combines excellent sand removal efficiency with aesthetics that compliment any architecture. The double deflection, sightproof design removes approximately 90% of airborne sand when tested to ASHRAE Standard 52.1 - 1992 criteria and exhibits low pressure drop characteristics.




### STANDARD CONSTRUCTION:

**FRAME:** 4" (102) deep, Type 6063-T6 extruded aluminum, .080" (2.03) nominal wall thickness.

**BLADES:** Type 6063-T6 extruded aluminum, .080" (2.03) nominal wall thickness.

**BLADE SPACING:** Approximately 6" (152) on centers.

**MULLIONS:** Concealed type allowing continuous line appearance up to 120" (3048). Larger assemblies require seperate visible frames.

**SCREEN:** 3/4" x .051 (19 x 1.3) expanded, flattened aluminum bird screen in removable frame, inside (rear) mount (adds approximately 3/8" [10] to louver depth).

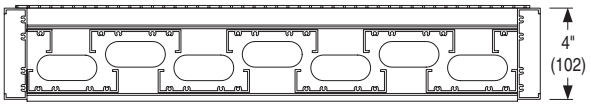
**FINISH:** Mill.

**MINIMUM SIZE:** 12" W x 12" H (305 x 305).

**MAX. SINGLE SECTION SIZE:** 120" W x 84" H (3048 x 2134) or 84" W x 120" H (2134 x 3048). 70 sq. ft. (6.5m²). Larger louvers will require field assembly of smaller sections.

### OPTIONS:

- ❑ **FL** Flanged Frame.
- ❑ **BSSS** Type 304 S.S. Bird Screen.
- ❑ **BSN** No Bird Screen.
- ❑ **ISA** Aluminum Insect Screen.
- ❑ **ISSS** Type 304 S.S. Insect Screen.
- ❑ **WE** Welded Construction.
- ❑ **ESI** Extended Sill.
- ❑ **FR1** 1" (25) Filter Rack.
- ❑ **FR2** 2" (51) Filter Rack.
- ❑ **PAC** Perimeter Anchor Clips.
- ❑ Other: _____ .




### 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.
- ❑ **AN04** Clear Anodized 204-R1.
- ❑ **AN15** Clear Anodized 215-R1.

Color Anodized:

- ❑ **ANLB** Light Bronze.
- ❑ **ANMB** Medium Bronze.
- ❑ **ANDB** Dark Bronze.
- ❑ **ANBK** Black.

### 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).

| | | | | |
|---|---|---|---|---|
| **SCHEDULE TYPE:** | Page 1 of 2 | | | |
| **PROJECT:** | Dimensions are in inches (mm). | | | |
| **ENGINEER:** | **DATE** | **B SERIES** | **SUPERSEDES** | **DRAWING NO.** |
| **CONTRACTOR:** | **2 - 17 - 22** | **1600** | **10 - 19 - 15** | **1604SL** |

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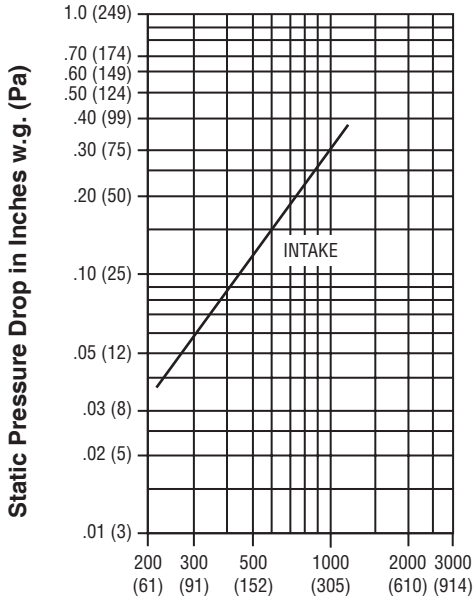
Nailor® Industries Inc.

# EXTRUDED ALUMINUM SAND LOUVER
4" (102) DEEP • SIGHTPROOF
## PERFORMANCE DATA
## MODEL: 1604SL

**FREE AREA in Square Feet and** Square Meters

| Height in Inches and Meters | Width in Inches and Meters | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **12** | **18** | **24** | **30** | **36** | **42** | **48** | **54** | **60** | **66** | **72** | **78** | **84** | **90** | **96** | **102** | **108** | **114** | **120** |
| | 0.30 | 0.46 | 0.61 | 0.76 | 0.91 | 1.07 | 1.22 | 1.37 | 1.52 | 1.68 | 1.83 | 1.98 | 2.13 | 2.29 | 2.44 | 2.59 | 2.74 | 2.90 | 3.05 |
| **12** | **0.07** | **0.15** | **0.22** | **0.30** | **0.38** | **0.45** | **0.53** | **0.60** | **0.68** | **0.75** | **0.83** | **0.91** | **0.98** | **1.06** | **1.13** | **1.21** | **1.28** | **1.36** | **1.44** |
| 0.30 | 0.01 | 0.01 | 0.02 | 0.03 | 0.03 | 0.04 | 0.05 | 0.06 | 0.06 | 0.07 | 0.08 | 0.08 | 0.09 | 0.10 | 0.11 | 0.11 | 0.12 | 0.13 | 0.13 |
| **18** | **0.15** | **0.30** | **0.45** | **0.60** | **0.75** | **0.90** | **1.05** | **1.21** | **1.36** | **1.51** | **1.66** | **1.81** | **1.96** | **2.11** | **2.27** | **2.42** | **2.57** | **2.72** | **2.87** |
| 0.46 | 0.01 | 0.03 | 0.04 | 0.06 | 0.07 | 0.08 | 0.10 | 0.11 | 0.13 | 0.14 | 0.15 | 0.17 | 0.18 | 0.20 | 0.21 | 0.22 | 0.24 | 0.25 | 0.27 |
| **24** | **0.22** | **0.45** | **0.67** | **0.90** | **1.13** | **1.35** | **1.58** | **1.81** | **2.04** | **2.26** | **2.49** | **2.72** | **2.94** | **3.17** | **3.40** | **3.63** | **3.85** | **4.08** | **4.31** |
| 0.61 | 0.02 | 0.04 | 0.06 | 0.08 | 0.10 | 0.13 | 0.15 | 0.17 | 0.19 | 0.21 | 0.23 | 0.25 | 0.27 | 0.29 | 0.32 | 0.34 | 0.36 | 0.38 | 0.40 |
| **30** | **0.29** | **0.59** | **0.90** | **1.20** | **1.50** | **1.81** | **2.11** | **2.41** | **2.71** | **3.02** | **3.32** | **3.62** | **3.93** | **4.23** | **4.53** | **4.84** | **5.14** | **5.44** | **5.74** |
| 0.76 | 0.03 | 0.06 | 0.08 | 0.11 | 0.14 | 0.17 | 0.20 | 0.22 | 0.25 | 0.28 | 0.31 | 0.34 | 0.36 | 0.39 | 0.42 | 0.45 | 0.48 | 0.51 | 0.53 |
| **36** | **0.36** | **0.74** | **1.12** | **1.50** | **1.88** | **2.26** | **2.64** | **3.01** | **3.39** | **3.77** | **4.15** | **4.53** | **4.91** | **5.29** | **5.67** | **6.04** | **6.42** | **6.80** | **7.18** |
| 0.91 | 0.03 | 0.07 | 0.10 | 0.14 | 0.17 | 0.21 | 0.24 | 0.28 | 0.32 | 0.35 | 0.39 | 0.42 | 0.46 | 0.49 | 0.53 | 0.56 | 0.60 | 0.63 | 0.67 |
| **42** | **0.44** | **0.89** | **1.34** | **1.80** | **2.25** | **2.71** | **3.16** | **3.62** | **4.07** | **4.53** | **4.98** | **5.44** | **5.89** | **6.34** | **6.80** | **7.25** | **7.71** | **8.16** | **8.62** |
| 1.07 | 0.04 | 0.08 | 0.12 | 0.17 | 0.21 | 0.25 | 0.29 | 0.34 | 0.38 | 0.42 | 0.46 | 0.50 | 0.55 | 0.59 | 0.63 | 0.67 | 0.72 | 0.76 | 0.80 |
| **48** | **0.51** | **1.04** | **1.57** | **2.10** | **2.63** | **3.16** | **3.69** | **4.22** | **4.75** | **5.28** | **5.81** | **6.34** | **6.87** | **7.40** | **7.93** | **8.46** | **8.99** | **9.52** | **10.05** |
| 1.22 | 0.05 | 0.10 | 0.15 | 0.19 | 0.24 | 0.29 | 0.34 | 0.39 | 0.44 | 0.49 | 0.54 | 0.59 | 0.64 | 0.69 | 0.74 | 0.79 | 0.84 | 0.88 | 0.93 |
| **54** | **0.58** | **1.19** | **1.79** | **2.40** | **3.00** | **3.61** | **4.22** | **4.82** | **5.43** | **6.03** | **6.64** | **7.25** | **7.85** | **8.46** | **9.06** | **9.67** | **10.28** | **10.88** | **11.49** |
| 1.37 | 0.05 | 0.11 | 0.17 | 0.22 | 0.28 | 0.34 | 0.39 | 0.45 | 0.50 | 0.56 | 0.62 | 0.67 | 0.73 | 0.79 | 0.84 | 0.90 | 0.95 | 1.01 | 1.07 |
| **60** | **0.65** | **1.34** | **2.02** | **2.70** | **3.38** | **4.06** | **4.74** | **5.43** | **6.11** | **6.79** | **7.47** | **8.15** | **8.83** | **9.52** | **10.20** | **10.88** | **11.56** | **12.24** | **12.92** |
| 1.52 | 0.06 | 0.12 | 0.19 | 0.25 | 0.31 | 0.38 | 0.44 | 0.50 | 0.57 | 0.63 | 0.69 | 0.76 | 0.82 | 0.88 | 0.95 | 1.01 | 1.07 | 1.14 | 1.20 |
| **66** | **0.73** | **1.48** | **2.24** | **3.00** | **3.76** | **4.51** | **5.27** | **6.03** | **6.79** | **7.54** | **8.30** | **9.06** | **9.82** | **10.57** | **11.33** | **12.09** | **12.85** | **13.60** | **14.36** |
| 1.68 | 0.07 | 0.14 | 0.21 | 0.28 | 0.35 | 0.42 | 0.49 | 0.56 | 0.63 | 0.70 | 0.77 | 0.84 | 0.91 | 0.98 | 1.05 | 1.12 | 1.19 | 1.26 | 1.33 |
| **72** | **0.80** | **1.63** | **2.47** | **3.30** | **4.13** | **4.96** | **5.80** | **6.63** | **7.46** | **8.30** | **9.13** | **9.96** | **10.80** | **11.63** | **12.46** | **13.30** | **14.13** | **14.96** | **15.80** |
| 1.83 | 0.07 | 0.15 | 0.23 | 0.31 | 0.38 | 0.46 | 0.54 | 0.62 | 0.69 | 0.77 | 0.85 | 0.93 | 1.00 | 1.08 | 1.16 | 1.24 | 1.31 | 1.39 | 1.47 |
| **78** | **0.87** | **1.78** | **2.69** | **3.60** | **4.51** | **5.42** | **6.33** | **7.23** | **8.14** | **9.05** | **9.96** | **10.87** | **11.78** | **12.69** | **13.60** | **14.51** | **15.42** | **16.32** | **17.23** |
| 1.98 | 0.0.08 | 0.17 | 0.25 | 0.33 | 0.42 | 0.50 | 0.59 | 0.67 | 0.76 | 0.84 | 0.93 | 1.01 | 1.09 | 1.18 | 1.26 | 1.35 | 1.43 | 1.52 | 1.60 |
| **84** | **0.94** | **1.93** | **2.91** | **3.90** | **4.88** | **5.87** | **6.85** | **7.84** | **8.82** | **9.81** | **10.79** | **11.78** | **12.76** | **13.75** | **14.73** | **15.71** | **16.70** | **17.68** | **18.67** |
| 2.13 | 0.09 | 0.18 | 0.27 | 0.36 | 0.45 | 0.55 | 0.64 | 0.73 | 0.82 | 0.91 | 1.00 | 1.09 | 1.19 | 1.28 | 1.37 | 1.46 | 1.55 | 1.64 | 1.73 |

### 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/ft³. Tested to AMCA Fig. 5.5 - 6.5.

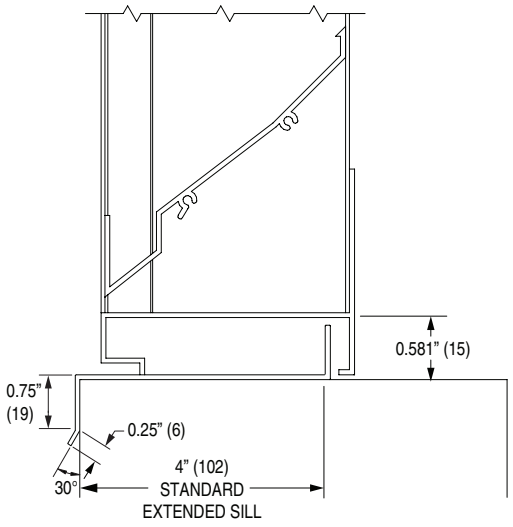
| | | | | |
|---|---|---|---|---|
| **SCHEDULE TYPE:** | Page 2 of 2 | | | |
| **PROJECT:** | Dimensions are in inches (mm). | | | |
| **ENGINEER:** | **DATE** | **B SERIES** | **SUPERSEDES** | **DRAWING NO.** |
| **CONTRACTOR:** | **2 - 17 - 22** | **1600** | **10 - 19 - 15** | **1604SL** |

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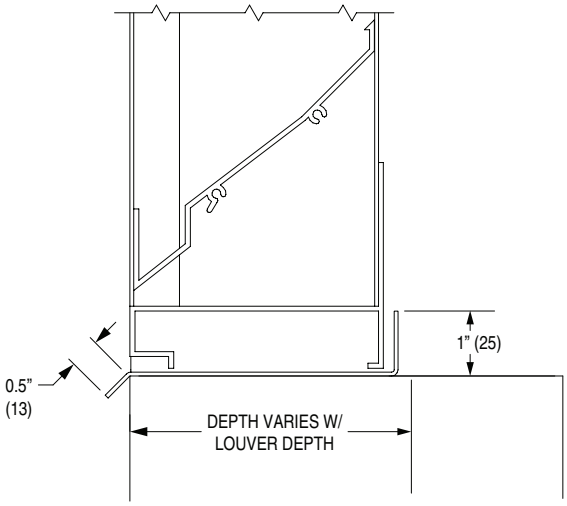
Nailor® Industries Inc.

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

❑ **ESI** Extended Sill

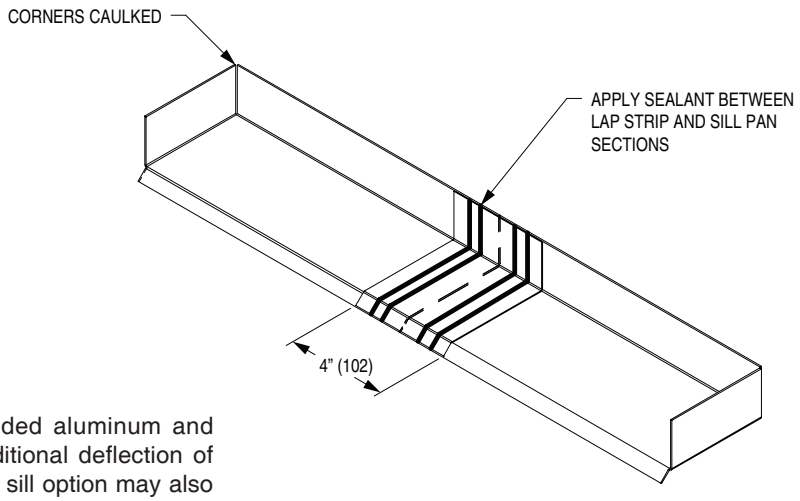



❑ **PASI** Sill Pan (Extended Sill with End Dams)




**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**<br>AAMA 2605-Superior Finish<br>(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.<br>A superior alternative to traditional 70% Kynar 500® / Hylar 500® PVDF fluoropolymer liquid coatings. | 10 years (20 years optional) |
| **High Performance Powder Coat**<br>AAMA 2604 -<br>High Performance Finish<br>(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.<br>A good alternative to 50% Kynar 500® / Hylar 5000® liquid coatings. | 5 years |
| **Durable Powder Coat**<br>AAMA 2603 -<br>Pigmented Organic Coatings<br>(AKA: Powdura® 3000, Envirocron® Durable Powder, Dynadure™ 300, Interpon® D1000, IFS 300SP) | **"Good"** - A durable powder coat based on thermosetting polyester resin technology.<br>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**<br>AA-M10C22A41<br>(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**<br>AA-M10C22A31<br>(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**<br>AA-M10C22A44<br>(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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