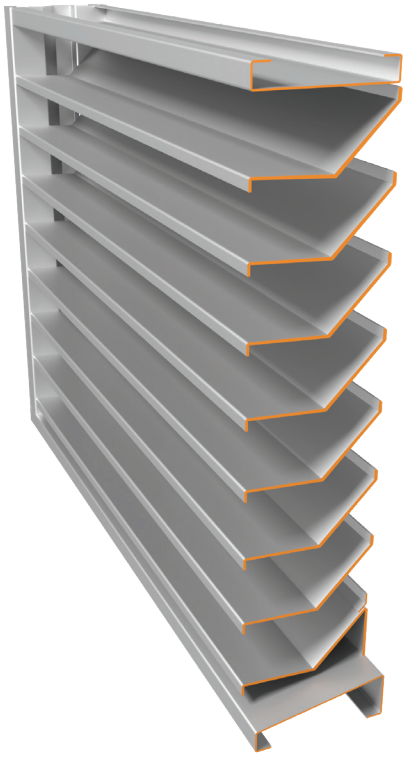
KX645
6 in. Kitchen Exhaust Louver



APPLICATION

Designed to meet the requirements of NFPA 96 Section 7.8.3 for Wall Terminals, the KX645 directs hot grease-laden kitchen exhaust upwards and away from surrounding walls and nearby pedestrian ways. At 6 in. deep with a 3° upward exhaust blade angle, Price's KX645 fixed blade kitchen exhaust louvers are available in a variety of materials and finishes to suit your project.

STANDARD CONSTRUCTION

Material	12 ga Formed Aluminum (3003-H14)
Frame	6 in. (152 mm) Depth x 0.081 in. Thick Channel Frame
Blades	Kitchen Exhaust Style Blades 3° & 45° Blade Angles 2 in. (51 mm) Blade Spacing
Construction	All Welded
Finish	Mill
Minimum Size	10 in. x 9.625 in. (254 mm x 244 mm)
Maximum Size	Single Section 72 in. x 72 in. (1829 mm x 1829 mm) Multi-Section: Contact Louvers Design
Wind Load	25 lb/sq.ft (1.2 kPa)

PERFORMANCE RATING

For a Louver Size of 48 in. x 48 in. (1219 mm x 1219 mm)

Free Area	7.52 sq.ft (0.70 sq.m)
Free Area %	47.01%
Air Volume @ 0.15 in.w.g. is 7500 CFM (3540 L/s)	
Water Penetration Point	N/A for Exhaust Applications
Estimated Weight	63 lb (29 kg)

Price Louvers Performance Calculator

Price Industries Limited certifies that the KX645 is licensed to bear the AMCA Seal. The ratings shown as 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 Seal applies to air performance.

STANDARD OPTIONS

(Leave boxes blank if not required)

SIZING
Louver Sizing Manual

☐ Nominal ☐ Actual

MATERIAL
☐ Formed Aluminum
☐ Formed Steel

MOUNTING
Mounting Methods

☐ Channel ☐ Flanged

LOOSE SILL
Loose Sill

☐ 6 in. (152 mm) ☐ 8 in. (203 mm)
☐ 10 in. (254 mm) ☐ 12 in. (305 mm)

SCREEN PANELS
☐ Bird Screen Without Frame
☐ Bird Screen With Frame
☐ Insect Screen
☐ Combined Frame Bird/Insect Screen
☐ Separate Frame Bird/Insect Screen

FINISH
Louvers Finishes Guide

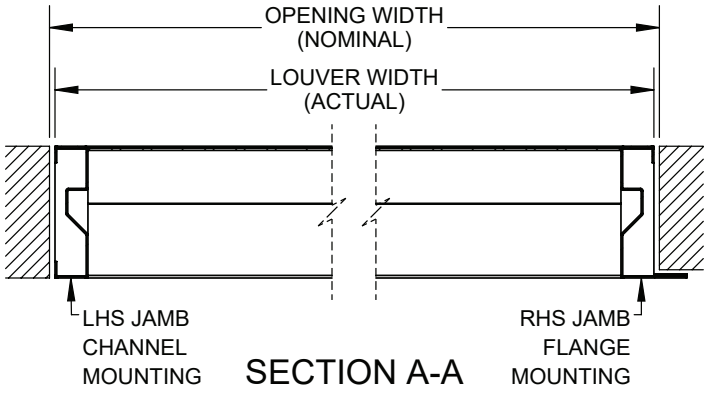
Louver

☐ Mill ☐ Factory Cleaned Aluminum
☐ Prime Coat
☐ Duracron (Baked Enamel)
☐ Duranar (70% PVDF)
☐ Duranar XL (70% PVDF with clear top coat)
☐ Clear Anodized ☐ Colour Anodized

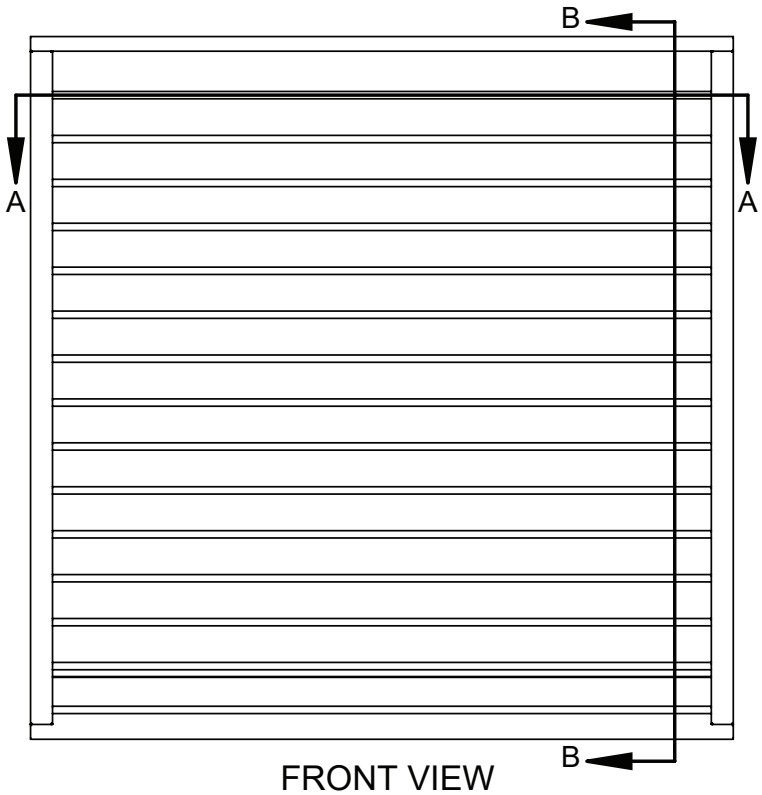
Screen

☐ Mill ☐ L172 (Black 2 sides)
☐ F2 (Same as louver)

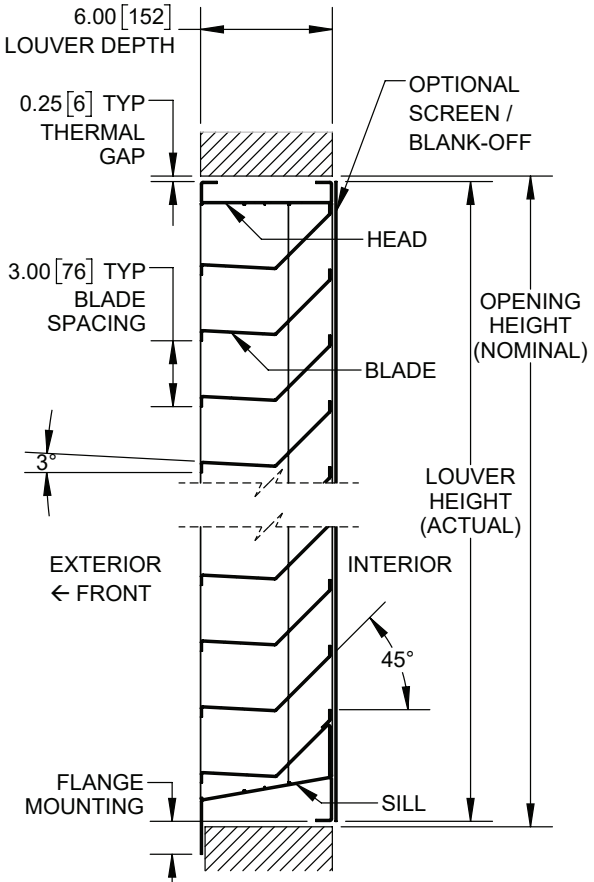
STANDARD DETAILS



SECTION A-A



FRONT VIEW
CHANNEL MOUNTING SHOWN



SECTION B-B

The design, material supply and installation of structural reinforcement elements required to adequately support large louver sections, multiple-section assemblies and assemblies with other special features are not provided by Price. Unless specifically indicated, the following are NOT included: structural steel, installation hardware (including but not limited to: anchors, clips, continuous angles, shims, fasteners, inserts, backer rod and sealant), flashing and trim pieces, bituminous paints for dissimilar metals, stamped and sealed structural calculations/drawings, seismic calculations, field measuring or installation.

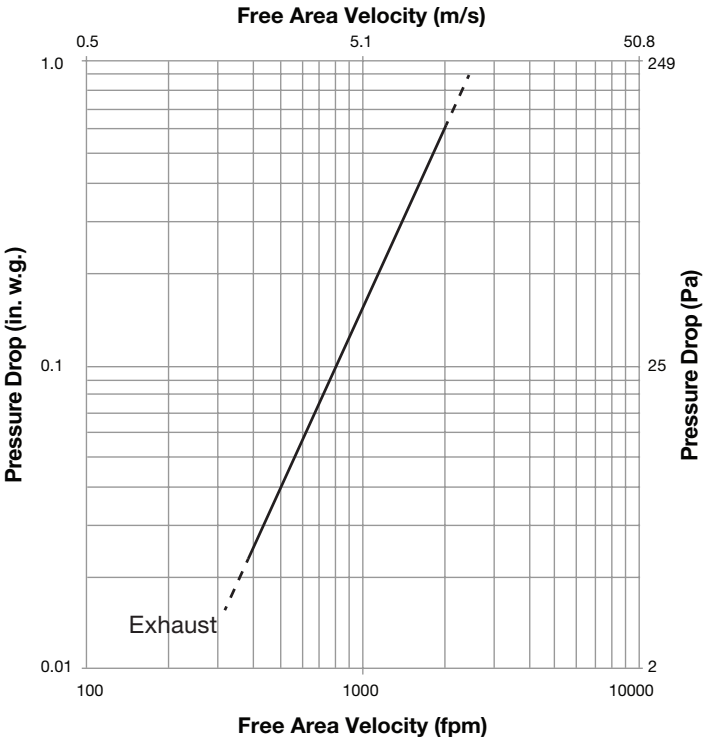
PERFORMANCE DATA

AIR PERFORMANCE

Standard Air 0.075 lb/ft³ (1.2 kg/m³)

Louver Test Size 48 in. x 48 in. (1219 mm x 1219 mm)

(AMCA 500-L Test Figure 5.5)



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Air performance is established from measurements of the pressure differential across the louver at various free area velocities under laboratory conditions. Ratings shown do not include the effect of bird screens or other accessories.

Free area velocities (shown) are greater in magnitude than overall face area velocities for a given volumetric flow rate.

FREE AREA – ft² (m²)

Section Height in. (mm)	Section Width in. (mm)										
	12 (300)	18 (450)	24 (600)	30 (750)	36 (900)	42 (1050)	48 (1200)	54 (1350)	60 (1500)	66 (1700)	72 (1850)
12 (300)	0.21 (0.02)	0.35 (0.03)	0.49 (0.05)	0.63 (0.06)	0.77 (0.07)	0.91 (0.08)	1.05 (0.1)	1.17 (0.11)	1.31 (0.12)	1.45 (0.13)	1.59 (0.15)
18 (450)	0.43 (0.04)	0.71 (0.07)	0.99 (0.09)	1.28 (0.12)	1.56 (0.15)	1.85 (0.17)	2.13 (0.2)	2.37 (0.22)	2.65 (0.25)	2.94 (0.27)	3.22 (0.30)
24 (600)	0.64 (0.06)	1.07 (0.1)	1.50 (0.14)	1.93 (0.18)	2.35 (0.22)	2.78 (0.26)	3.21 (0.3)	3.56 (0.33)	3.99 (0.37)	4.42 (0.41)	4.85 (0.45)
30 (750)	0.86 (0.08)	1.43 (0.13)	2.00 (0.19)	2.57 (0.24)	3.14 (0.29)	3.72 (0.35)	4.29 (0.4)	4.76 (0.44)	5.33 (0.50)	5.91 (0.55)	6.48 (0.60)
36 (900)	1.07 (0.10)	1.79 (0.17)	2.50 (0.23)	3.22 (0.3)	3.93 (0.37)	4.65 (0.43)	5.36 (0.5)	5.96 (0.55)	6.68 (0.62)	7.39 (0.69)	8.11 (0.75)
42 (1050)	1.29 (0.12)	2.15 (0.2)	3.01 (0.28)	3.87 (0.36)	4.72 (0.44)	5.58 (0.52)	6.44 (0.6)	7.16 (0.67)	8.02 (0.74)	8.88 (0.82)	9.74 (0.90)
48 (1200)	1.50 (0.14)	2.51 (0.23)	3.51 (0.33)	4.51 (0.42)	5.52 (0.51)	6.52 (0.61)	7.52 (0.7)	8.36 (0.78)	9.36 (0.87)	10.36 (0.96)	11.36 (1.06)
54 (1350)	1.72 (0.16)	2.87 (0.27)	4.01 (0.37)	5.16 (0.48)	6.31 (0.59)	7.45 (0.69)	8.60 (0.8)	9.55 (0.89)	10.70 (0.99)	11.85 (1.10)	12.99 (1.21)
60 (1500)	1.94 (0.18)	3.23 (0.3)	4.52 (0.42)	5.81 (0.54)	7.10 (0.66)	8.39 (0.78)	9.68 (0.9)	10.75 (1.00)	12.04 (1.12)	13.33 (1.24)	14.62 (1.36)
66 (1700)	2.15 (0.20)	3.59 (0.33)	5.02 (0.47)	6.45 (0.6)	7.89 (0.73)	9.32 (0.87)	10.76 (1)	11.95 (1.11)	13.38 (1.24)	14.82 (1.38)	16.25 (1.51)
72 (1850)	2.37 (0.22)	3.94 (0.37)	5.52 (0.51)	7.10 (0.66)	8.68 (0.81)	10.26 (0.95)	11.83 (1.1)	13.15 (1.22)	14.73 (1.37)	16.30 (1.51)	17.88 (1.66)

Free area is the sum of space on a louver through which air can pass (i.e. between blades, frames and other airflow obstructions). The standard comparison size for Louver Free Area is 48 in. wide x 48 in. high. The ratio of free area to face area is typically expressed as a percentage and varies with louver sizes. All values reflect section sizes – louvers can be ordered at any larger size and will be provided in multiple sections wide and/or high.