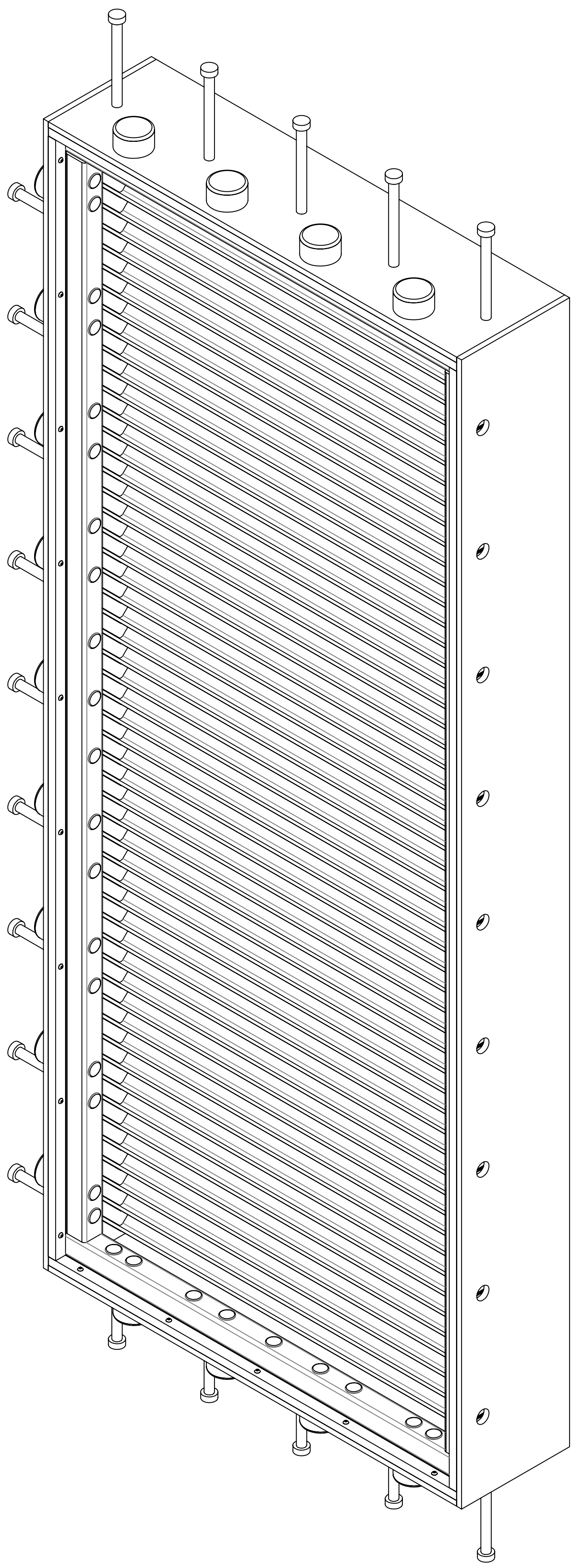
Habersham Metal Products Company - FEBR Type Louver Frame - Tech Data Sheet



FEBR METAL LOUVER ASSEMBLIES

A. Materials

1. Frames shall be constructed of commercial quality, cold rolled steel conforming to ASTM A36 / A36M or hot rolled, pickled and oiled steel conforming to ASTM A1011 / A1011M. The steel shall be free of scale, pitting, coil breaks or other surface defects.
2. Exterior openings: Steel for these openings shall have a zinc coating applied by the hot-dip process conforming to ASTM A653/A653M, Coating designation A60/G60.

B. Construction:

1. All louvers shall have integral vanes and be welded assemblies of the sizes and types shown in the contract documents and on the approved submittal drawings.
2. All finished work shall be neat in appearance, square, and free of defects, warp or buckle. Pressed steel members shall be straight and of uniform profile throughout their lengths.
3. All louver sections shall be fabricated, and all louver frames and embeds shall be assembled, in accordance with the manufacturer's certified FE/BBFR design.
4. Corner joints shall have all contact edges closed tight with faces butted. Corner joints shall be continuously welded as required per FEBR certification and faces finished smooth.
5. Minimum height of removable stops in Louver shall be 2 in. (51 mm) minimum. The height of stops in FE/BBFR louver openings shall be as shown on approved submittal drawings.
6. Frames for multiple louver openings shall have mullion members which, after fabrication, are closed tubular shapes conforming to profiles shown on approved submittal drawings, and having no visible seams or joints. All joints between faces of abutted members shall be continuously welded and finished smooth. All joints between stops of abutted members shall be welded along the height of the stop and shall be left neat and uniform in appearance.
7. FE/BBFR frames shall be provided with jamb anchor systems in accordance with the manufacturer's certified design, and in accordance with performance specifications. The embed anchor plates when used shall be provided with anchors as required to meet performance specifications.

BULLET PENETRATION

When specified by the contract documents, test door assemblies for bullet penetration resistance in accordance with SD-STD-01.01, Rev. G.

FORCED ENTRY ATTACK TEST

Door and frame and/or window assemblies tested in accordance with SD-STD-01.01, Revision G, *Certification Standard for Forced Entry and Ballistic Resistance of Structural Systems*.

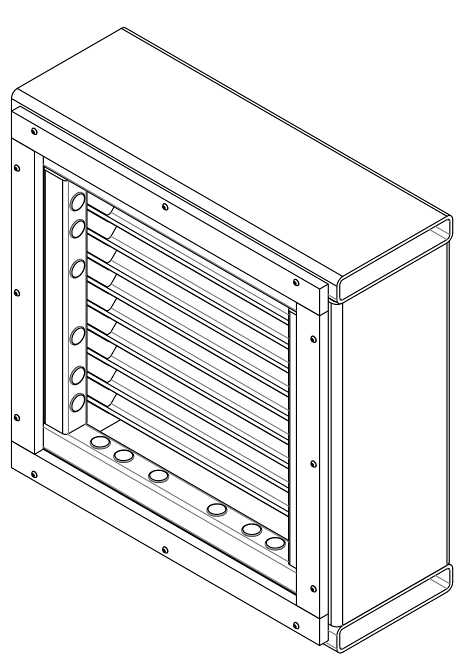
BLAST RESISTANCE

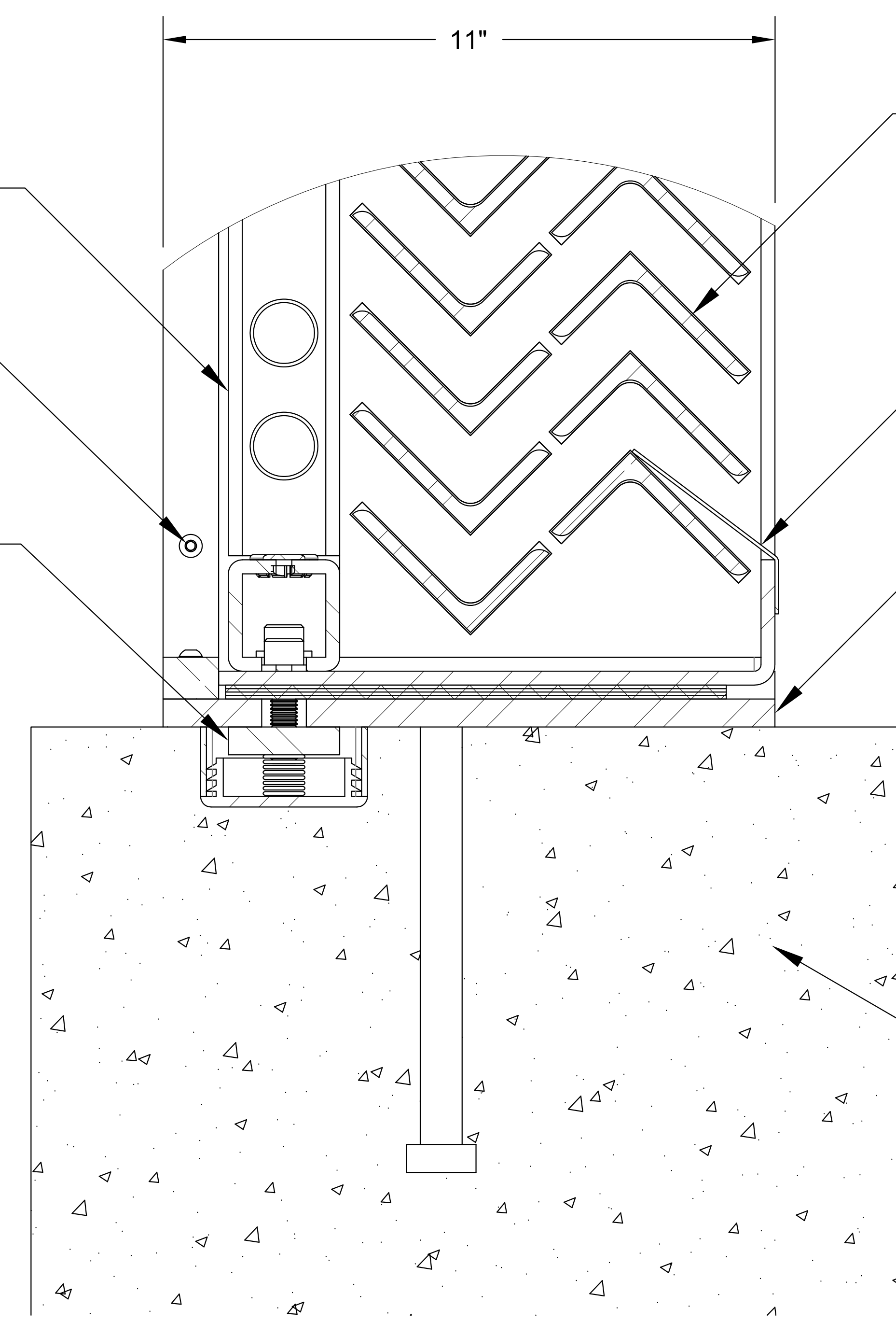
Dynamic loading (Size Dependent) 42 psi short duration less than 298 psi.msec impulse. Dynamic Loading 70 psi short duration less than 132 psi.msec. Loading response subject to project specific analysis.

FLOW RATE DATA

(48" x 48" Test Sample -Free Air Space Area 55%)

	Volume Flow Rate	Air Velocity	Pressure Drop
Data Set #1	11019 CFM [5200 L/s]	1507 ft/min [7.7 m/s]	0.605 in. [151.3 Pa]
Data Set #2	9348 CFM [4411 L/s]	1279 ft/min [6.5 m/s]	0.433 in. [108.3 Pa]
Data Set #3	7369 CFM [3477 L/s]	1008 ft/min [5.1 m/s]	0.271 in. [67.8 Pa]
Data Set #4	5564 CFM [2626 L/s]	761 ft/min [3.9 m/s]	0.157 in. [39.3 Pa]
Data Set #5	2476 CFM [1168 L/s]	339 ft/min [1.7 m/s]	0.031 in. [7.8 Pa]





All Designs Specifications are Typical Representations and Subject to Change without Notice.

HMP ELEVATION | REV | SHEET 1/1 | SCALE | SIZE | RELEASE 6-2-17

JOB Habersham - FEBR Louver Frame - Tech Data Sheet

DRAWING NAME FEBR Steel Angle Louver Frame

MATERIAL

DATE 6-1-17 | DRAWN BY JSIII | DATE | DESIGNED BY

Habersham Metal Products Co.
264 Stapleton Road, Cornelia, GA 30531
Telephone: 706-778-2212 Fax: 706-778-2769