

The illustrated design was created to a design load of 30 lbs. per square foot. Changes may be required to accommodate other design loads.

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### PERFORMANCE DATA

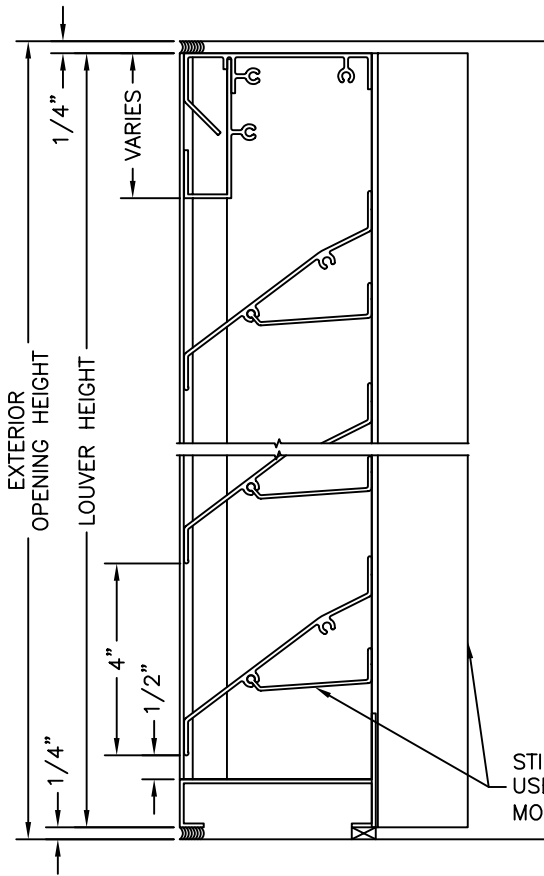
The data below supersedes all previously published data.

| VARIABLE            | VALUE  | DESCRIPTION                          |
|---------------------|--|--------------------------------------|
| Measured Free Area  | 8.86 ft <sup>2</sup> 48"x48"                                       |                                      |
|                     | 0.82 m <sup>2</sup> 122cmx122cm                                    |                                      |
| Free Area %         | 55.38 %  | Measured Free Area/16ft <sup>2</sup> |
| Air Velocity        | 841.00 fpm @ Beginning Point Of H <sub>2</sub> O Penetration       |                                      |
|                     | 265.34 mpm   |                                      |
| Volumetric Air Flow | 7,451.26 cfm @ 0.01 oz./ft. <sup>2</sup> Free Area                 |                                      |
|                     | 3.52 cms   |                                      |
| Pressure Drop       | 0.11 in. of H <sub>2</sub> O @ 0.01 oz./ft. <sup>2</sup> Free Area |                                      |
|                     | 27.37 pascals  |                                      |
| Air Velocity        | 950.00 fpm @ Pressure Drop Of: 0.15" H <sub>2</sub> O              |                                      |
|                     | 289.56 mpm 37 pascals  |                                      |
| Volumetric Air Flow | 8,417.00 cfm @ Pressure Drop Of: 0.15" H <sub>2</sub> O            |                                      |
|                     | 3.97 cms   |                                      |



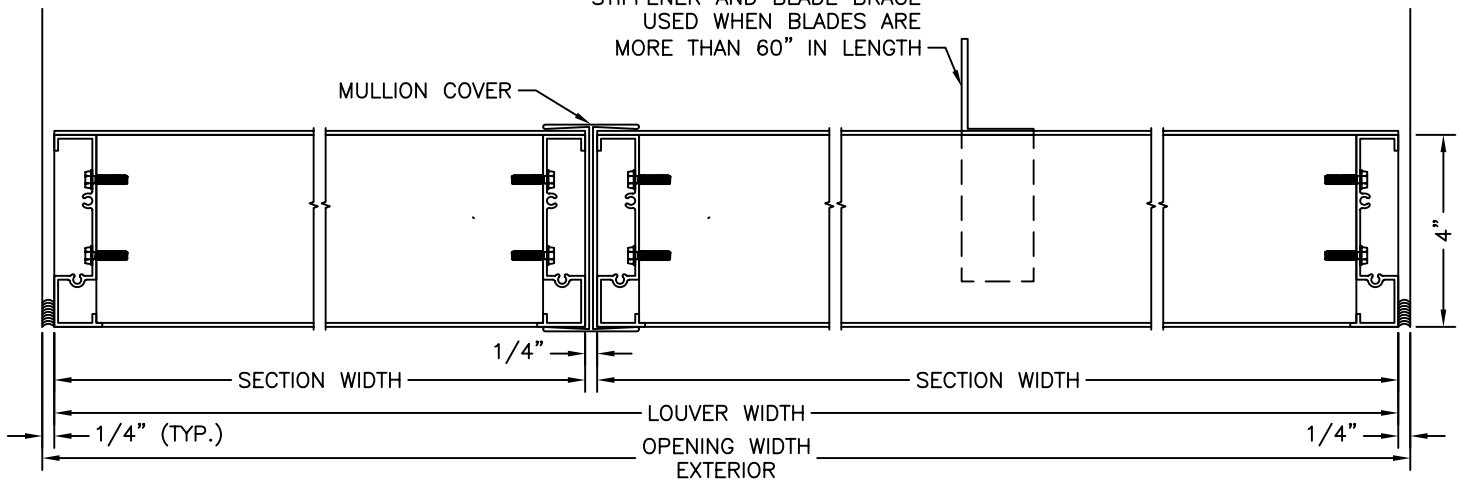
ATOMS AP LLC certifies that louver model EJ-437 shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 511 and comply with the requirements of the AMCA certified ratings program.

The AMCA Certified Ratings Seal Applies to Water Penetration and Air Performance.



STIFFENER AND BLADE BRACE USED WHEN BLADES ARE MORE THAN 60" IN LENGTH

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FILE: C:\DRAFTING\CUTSHEETS\437-EJ

MATERIAL: STD FRAME: 0.081" (2.057mm) 6063-T5 EXTRUDED ALUM.  
BLADE: 0.081" (2.057mm) 6063-T5 EXTRUDED ALUM.

REV. DATE: 7/12/10

REV. BY: DR

PROJECT:

LOCATION:

ARCHITECT:

CUSTOMER:

CUSTOMER P.O. NO.:

A.A.P. ORDER NO.:

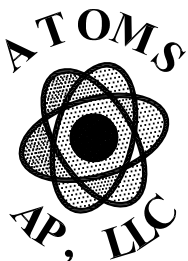
SCALE: 3"=1'

DATE: JUNE 21, 2010

DWN. BY: DR

APP'VD BY:

**EJ-437**



#### SECTION SIZE LIMITS

| MAXIMUM      | MINIMUM     |
|--------------|-------------|
| WIDTH: 120"  | WIDTH: 12"  |
| HEIGHT: 120" | HEIGHT: 12" |

ONE DIMENSION MUST BE 60" OR LESS.

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# Louver Model EJ-437 Performance Ratings



## Free area Chart

- Square feet of free area

| Louver Height in Inches | Louver Width in Inches |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-------------------------|------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                         | 12                     | 18   | 24    | 30    | 36    | 42    | 48    | 54    | 60    | 66    | 72    | 78    | 84    | 90    | 96    | 102   | 108   | 114   | 120   |
| 12                      | 0.31                   | 0.49 | 0.68  | 0.86  | 1.05  | 1.23  | 1.42  | 1.60  | 1.79  | 1.97  | 2.15  | 2.34  | 2.52  | 2.71  | 2.89  | 3.08  | 3.26  | 3.45  | 3.63  |
| 18                      | 0.58                   | 0.93 | 1.27  | 1.62  | 1.96  | 2.31  | 2.66  | 3.00  | 3.35  | 3.69  | 4.04  | 4.39  | 4.73  | 5.08  | 5.42  | 5.77  | 6.12  | 6.46  | 6.81  |
| 24                      | 0.85                   | 1.36 | 1.87  | 2.37  | 2.88  | 3.39  | 3.90  | 4.40  | 4.91  | 5.42  | 5.93  | 6.43  | 6.94  | 7.45  | 7.96  | 8.46  | 8.97  | 9.48  | 9.99  |
| 30                      | 1.12                   | 1.79 | 2.46  | 3.13  | 3.80  | 4.47  | 5.14  | 5.81  | 6.47  | 7.14  | 7.81  | 8.48  | 9.15  | 9.82  | 10.49 | 11.16 | 11.83 | 12.50 | 13.17 |
| 36                      | 1.39                   | 2.22 | 3.05  | 3.88  | 4.72  | 5.55  | 6.38  | 7.21  | 8.04  | 8.87  | 9.70  | 10.53 | 11.36 | 12.19 | 13.02 | 13.85 | 14.68 | 15.51 | 16.34 |
| 42                      | 1.66                   | 2.66 | 3.65  | 4.64  | 5.63  | 6.62  | 7.62  | 8.61  | 9.60  | 10.59 | 11.59 | 12.58 | 13.57 | 14.56 | 15.55 | 16.55 | 17.54 | 18.53 | 19.52 |
| 48                      | 1.93                   | 3.09 | 4.24  | 5.40  | 6.55  | 7.70  | 8.86  | 10.01 | 11.16 | 12.32 | 13.47 | 14.62 | 15.78 | 16.93 | 18.09 | 19.24 | 20.39 | 21.55 | 22.70 |
| 54                      | 2.21                   | 3.52 | 4.84  | 6.15  | 7.47  | 8.78  | 10.10 | 11.41 | 12.73 | 14.04 | 15.36 | 16.67 | 17.99 | 19.30 | 20.62 | 21.93 | 23.25 | 24.56 | 25.88 |
| 60                      | 2.48                   | 3.95 | 5.43  | 6.91  | 8.38  | 9.86  | 11.34 | 12.81 | 14.29 | 15.77 | 17.24 | 18.72 | 20.20 | 21.67 | 23.15 | 24.63 | 26.10 | 27.58 | 29.06 |
| 66                      | 2.75                   | 4.39 | 6.02  | 7.66  | 9.30  | 10.94 | 12.58 | 14.22 | 15.85 | 17.49 | 19.13 | 20.77 | 22.41 | 24.04 | 25.68 | 27.32 | 28.96 | 30.60 | 32.24 |
| 72                      | 3.02                   | 4.82 | 6.62  | 8.42  | 10.22 | 12.02 | 13.82 | 15.62 | 17.42 | 19.22 | 21.02 | 22.82 | 24.62 | 26.42 | 28.21 | 30.01 | 31.81 | 33.61 | 35.41 |
| 78                      | 3.29                   | 5.25 | 7.21  | 9.17  | 11.13 | 13.10 | 15.06 | 17.02 | 18.98 | 20.94 | 22.90 | 24.86 | 26.82 | 28.79 | 30.75 | 32.71 | 34.67 | 36.63 | 38.59 |
| 84                      | 3.56                   | 5.68 | 7.81  | 9.93  | 12.05 | 14.17 | 16.30 | 18.42 | 20.54 | 22.67 | 24.79 | 26.91 | 29.03 | 31.16 | 33.28 | 35.40 | 37.52 | 39.65 | 41.77 |
| 90                      | 3.83                   | 6.12 | 8.40  | 10.68 | 12.97 | 15.25 | 17.54 | 19.82 | 22.11 | 24.39 | 26.67 | 28.96 | 31.24 | 33.53 | 35.81 | 38.10 | 40.38 | 42.66 | 44.95 |
| 96                      | 4.10                   | 6.55 | 8.99  | 11.44 | 13.89 | 16.33 | 18.78 | 21.22 | 23.67 | 26.11 | 28.56 | 31.01 | 33.45 | 35.90 | 38.34 | 40.79 | 43.24 | 45.68 | 48.13 |
| 102                     | 4.37                   | 6.98 | 9.59  | 12.19 | 14.80 | 17.41 | 20.02 | 22.62 | 25.23 | 27.84 | 30.45 | 33.05 | 35.66 | 38.27 | 40.88 | 43.48 | 46.09 | 48.70 | 51.31 |
| 108                     | 4.64                   | 7.41 | 10.18 | 12.95 | 15.72 | 18.49 | 21.26 | 24.03 | 26.79 | 29.56 | 32.33 | 35.10 | 37.87 | 40.64 | 43.41 | 46.18 | 48.95 | 51.72 | 54.48 |
| 114                     | 4.91                   | 7.84 | 10.78 | 13.71 | 16.64 | 19.57 | 22.50 | 25.43 | 28.36 | 31.29 | 34.22 | 37.15 | 40.08 | 43.01 | 45.94 | 48.87 | 51.80 | 54.73 | 57.66 |
| 120                     | 5.19                   | 8.28 | 11.37 | 14.46 | 17.55 | 20.65 | 23.74 | 26.83 | 29.92 | 33.01 | 36.10 | 39.20 | 42.29 | 45.38 | 48.47 | 51.56 | 54.66 | 57.75 | 60.84 |

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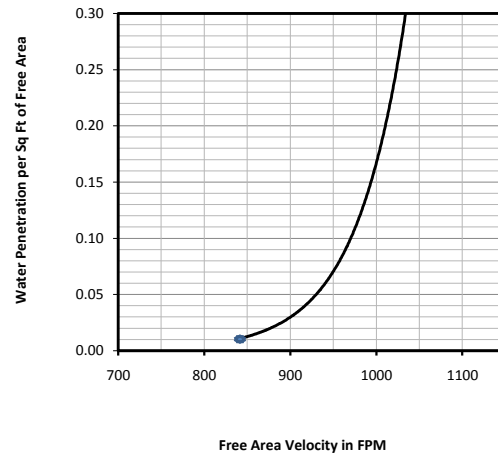
## Water Penetration

Standard Air - .075 lbs / cu ft, ---Test Unit 48" x 48" for 15 minute test

The AMCA Water Penetration test provides a method for comparing various louver models and designs as to their efficiency in resisting the penetration of rainfall under specific laboratory conditions. The beginning point of water penetration is defined as that velocity where the water penetration curve projects through .01 oz of water penetration per square foot of louver free area. These performance ratings do not guarantee a louver to be weather-proof or storm proof and should be used in combination with other factors including good engineering judgment in selecting louvers.

The beginning point of water penetration for Model EJ-437 is 841 fpm of free area velocity.

## Water Penetration



## Airflow Pressure Loss

Standard Air - .075 lbs / cu ft, ---Test Unit 48" x 48"

