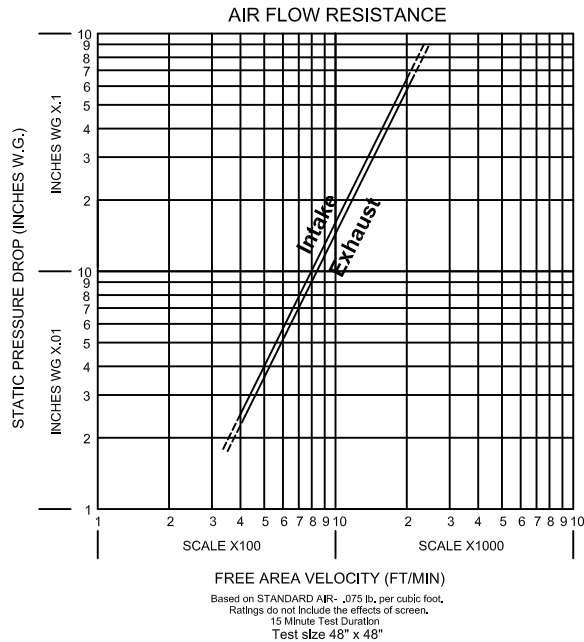
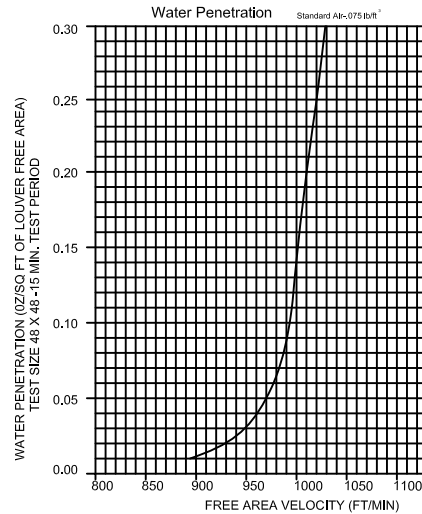


# SFL-6 LOUVER PERFORMANCE DATA



Model SFL-6 resistance to airflow varies depending on louver application (air intake or air exhaust). Free area velocities (shown) are higher than average velocity through the overall louver size. See louver selection information.

**Beginning Point of water penetration for  
Model SFL-6 is 896 FPM  
FREE AREA VELOCITY AT .01 OZ. OF WATER**



## LOUVER SELECTION AND APPLICATION

Application of any louver involves selecting an airflow velocity through the louver free area (free area velocity in fpm) that produces an acceptable pressure drop and minimizes carry through of normally encountered rain water.

No louver manufacturer warrants their louver to prevent water penetration under all possible combinations of wind and rain. Water penetration through SFL-6 begins at approximately 896 FPM free area velocity. Intake air louver selection using free area velocity below 896 FPM is recommended. Louver selection involves the following two steps, and depending on air conditions, either step may come first.

### Select Free Area Velocity:

Using the Airflow Resistance Chart, select a free area velocity that produces an acceptable pressure drop with minimal water penetration. (Water penetration need not be considered when selecting exhaust louvers.)

### Determine Louver Free Area:

Using the free area velocity from the previous step and total CFM, determine Louver Free Area required. Using Louver Free Area Chart, select a louver with the required free area. If louver size is given, determine free area from chart and work backwards to determine maximum airflow. See examples below.

## Free Area Chart (square feet):

| Louver Height Inches | Louver Width in Inches |      |      |      |      |       |       |       |       |       | Louver Height Inches |
|----------------------|------------------------|------|------|------|------|-------|-------|-------|-------|-------|----------------------|
|                      | 8                      | 12   | 18   | 24   | 30   | 36    | 42    | 48    | 54    | 60    |                      |
| 12                   | 0.1                    | 0.11 | 0.3  | 0.41 | 0.53 | 0.65  | 0.77  | 0.88  | 1     | 1.12  | 12                   |
| 18                   | 0.22                   | 0.23 | 0.65 | 0.9  | 1.16 | 1.41  | 1.67  | 1.92  | 2.18  | 2.43  | 18                   |
| 24                   | 0.34                   | 0.41 | 1    | 1.39 | 1.79 | 2.18  | 2.57  | 2.97  | 3.36  | 3.75  | 24                   |
| 30                   | 0.46                   | 0.67 | 1.35 | 1.88 | 2.41 | 2.94  | 3.48  | 4.01  | 4.54  | 5.07  | 30                   |
| 36                   | 0.59                   | 0.84 | 1.7  | 2.37 | 3.04 | 3.71  | 4.38  | 5.05  | 5.72  | 6.39  | 36                   |
| 42                   | 0.74                   | 1.11 | 2.15 | 2.99 | 3.83 | 4.68  | 5.52  | 6.37  | 7.21  | 8.06  | 42                   |
| 48                   | 0.88                   | 1.28 | 2.55 | 3.55 | 4.56 | 5.56  | 6.56  | 7.57  | 8.57  | 9.57  | 48                   |
| 54                   | 1.02                   | 1.54 | 2.95 | 4.12 | 5.28 | 6.44  | 7.6   | 8.77  | 9.93  | 11.09 | 54                   |
| 60                   | 1.16                   | 1.72 | 3.36 | 4.68 | 6    | 7.32  | 8.64  | 9.96  | 11.29 | 12.61 | 60                   |
| 66                   | 1.30                   | 1.98 | 3.76 | 5.24 | 6.72 | 8.2   | 9.68  | 11.16 | 12.64 | 14.12 | 66                   |
| 72                   | 1.43                   | 2.16 | 4.16 | 5.8  | 7.43 | 9.07  | 10.7  | 12.34 | 13.98 | 15.61 | 72                   |
| 78                   | 1.55                   | 2.42 | 4.51 | 6.28 | 8.06 | 9.83  | 11.61 | 13.38 | 15.16 | 16.93 | 78                   |
| 84                   | 1.67                   | 2.6  | 4.86 | 6.77 | 8.69 | 10.6  | 12.51 | 14.42 | 16.34 | 18.25 | 84                   |
| 90                   | 1.79                   | 2.86 | 5.21 | 7.26 | 9.31 | 11.36 | 13.42 | 15.47 | 17.52 | 19.57 | 90                   |
| 96                   | 1.92                   | 3.03 | 5.56 | 7.75 | 9.94 | 12.13 | 14.32 | 16.51 | 18.7  | 20.89 | 96                   |