**Resistance of Perforated Plates**

\[
\zeta = \frac{\Delta p}{\rho \bar{w}_{1}^{1/2}} = \left[ 0.707 (1 - f)^{0.5} + 1 - f \right]^{2} f^{2}
\]

Resistance coefficients for thin-walled perforated sheet or grid of strips with sharp edged orifices (according to Fried & Idelchik).

**Conditions:**

Range of sheet length to hole diameter ratio, \(0 < \frac{l}{D_h} < 0.015\)

Reynolds number, \(\text{Re} > 10^5\)

Where:

\[
d_h = \frac{4f \sigma}{\Pi_o}
\]

\(f_{or}\) is the area of one orifice.

The resistance coefficient is given by:

<table>
<thead>
<tr>
<th>Open Area</th>
<th>Resistance Coefficient</th>
<th>Open Area</th>
<th>Resistance Coefficient</th>
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<td>28677.936</td>
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<tr>
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<tr>
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</tr>
<tr>
<td>x</td>
<td>F(x)</td>
<td>y</td>
<td>z</td>
</tr>
<tr>
<td>----</td>
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<tr>
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<tr>
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<tr>
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<td>3.999</td>
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</tr>
</tbody>
</table>

An enclosure vent is an example where these coefficients are applicable.