

DIAGRAMME PERTE DE CHARGE

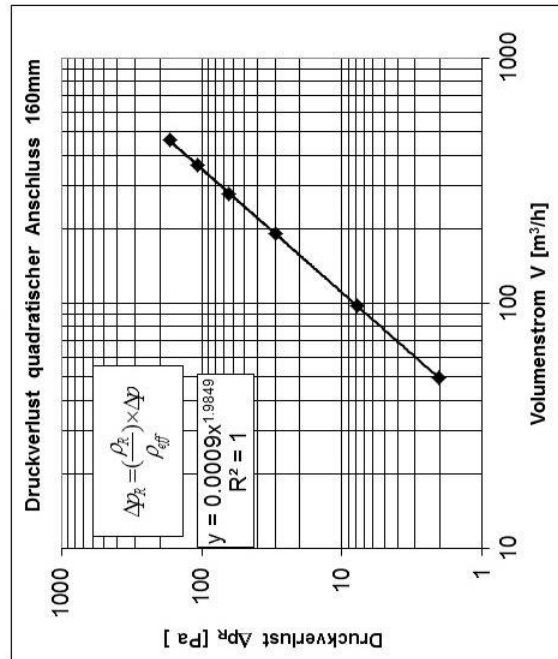
Grille pare-pluie découpée au laser
 Certificat d'épreuve no HP-141427, Hochschule Luzern

Débit d'air raccordement carré 160 mm

Diamètre intérieur 135.4 ± 1.5 mm
 Densité de référence 1.2 kg/m³

| | P _{base} Pa | t °C | ρ kg/m³ | V m³/h | U(V) % MW | m kg/h | Δp Pa | Δp _R Pa | Δp _R Pa | U(Δp _R) % MW | ξ _R | U(ξ) % MW |
|-----|-------------------------|---------|------------|-----------|--------------|-----------|----------|-----------------------|-----------------------|-----------------------------|----------------|--------------|
| MP1 | 96946 | 21.5 | 1.141 | 49.30 | 0.35 | 56.24 | 2.7 | 2.9 | 2.0 | 29.8 | 3.72 | 30.3 |
| MP2 | 96944 | 21.5 | 1.141 | 97.21 | 0.38 | 110.89 | 10.6 | 11.1 | 7.9 | 7.7 | 3.72 | 9.3 |
| MP3 | 96940 | 21.6 | 1.141 | 190.66 | 0.41 | 217.51 | 40.3 | 42.3 | 30.1 | 2.1 | 3.70 | 5.6 |
| MP4 | 96935 | 21.7 | 1.141 | 279.61 | 0.40 | 318.94 | 85.5 | 90.0 | 63.9 | 1.1 | 3.66 | 5.3 |
| MP5 | 96922 | 21.5 | 1.142 | 364.50 | 0.39 | 416.31 | 144.2 | 151.5 | 107.6 | 0.8 | 3.63 | 5.2 |
| MP6 | 96923 | 21.5 | 1.143 | 460.45 | 0.38 | 526.39 | 228.7 | 240.1 | 170.6 | 0.7 | 3.60 | 5.2 |

Der Innendurchmesser ist äquivalente Durchmesser, bezogen auf die Fläche des quadratischen Anschlusses.



Druckverlust
 Widerstandsbeiwert
 Volumenstrom

Perte de pression
 Coefficient de résistance
 Ecoulement volumétrique

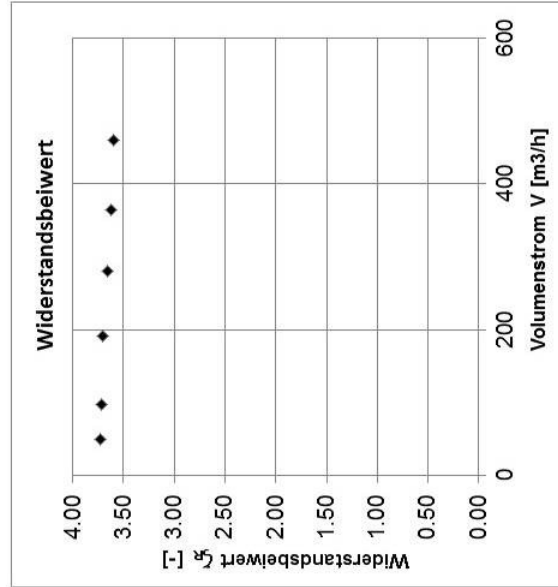


DIAGRAMME PERTE DE CHARGE

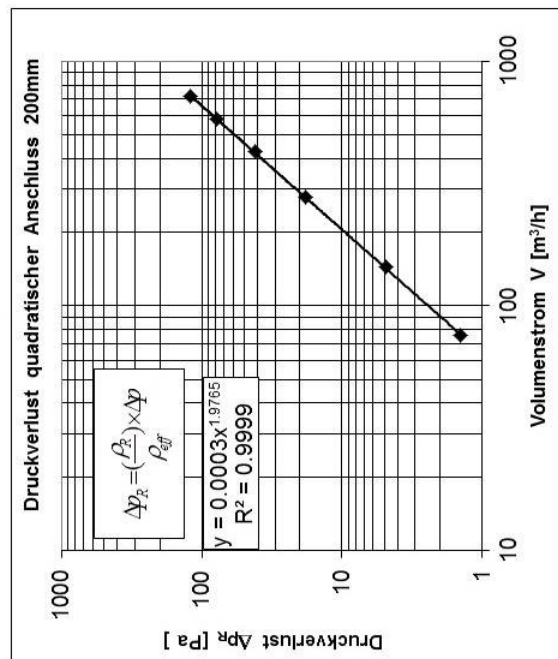
Grille pare-pluie découpée au laser
 Certificat d'épreuve no HP-141427, Hochschule Luzern

Débit d'air raccordement carré 200 mm

Diamètre intérieur 180.5 ± 1.5 mm
 Densité de référence 1.2 kg/m³

| | P _{base} Pa | t °C | ρ kg/m ³ | V m ³ /h | U(V) % MW | m kg/h | Δp Pa | Δp _R Pa | Δp _R Pa | U(Δp _R) % MW | ξ _R | U(ξ) % MW |
|-----|-------------------------|---------|------------------------|------------------------|--------------|-----------|----------|-----------------------|-----------------------|-----------------------------|----------------|--------------|
| MP1 | 96768 | 21.8 | 1.137 | 75.81 | 0.38 | 86.21 | 2.0 | 2.1 | 0.7 | 42.1 | 3.53 | 42.2 |
| MP2 | 96803 | 21.8 | 1.138 | 143.61 | 0.40 | 163.42 | 6.9 | 7.3 | 2.4 | 12.3 | 3.37 | 12.9 |
| MP3 | 96802 | 21.7 | 1.138 | 279.46 | 0.41 | 318.13 | 25.7 | 27.1 | 8.8 | 3.3 | 3.31 | 5.2 |
| MP4 | 96807 | 21.7 | 1.139 | 424.90 | 0.39 | 483.97 | 59.1 | 62.2 | 20.2 | 1.5 | 3.30 | 4.2 |
| MP5 | 96812 | 21.6 | 1.140 | 579.19 | 0.37 | 660.20 | 110.3 | 116.1 | 37.1 | 0.9 | 3.33 | 4.0 |
| MP6 | 96818 | 21.6 | 1.141 | 717.53 | 0.35 | 818.43 | 169.1 | 177.9 | 56.5 | 0.7 | 3.33 | 4.0 |

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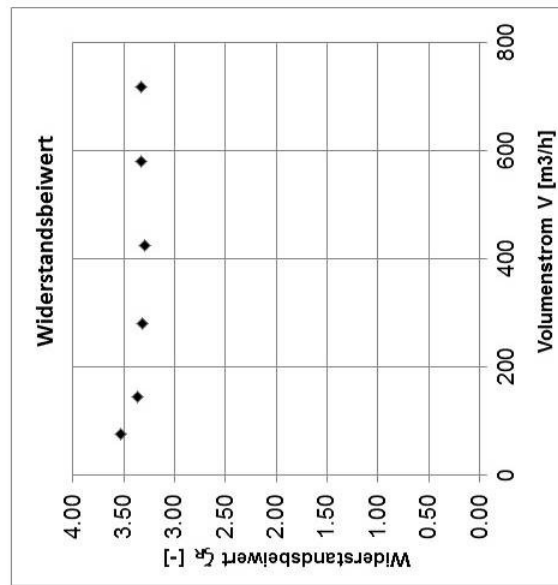


DIAGRAMME PERTE DE CHARGE

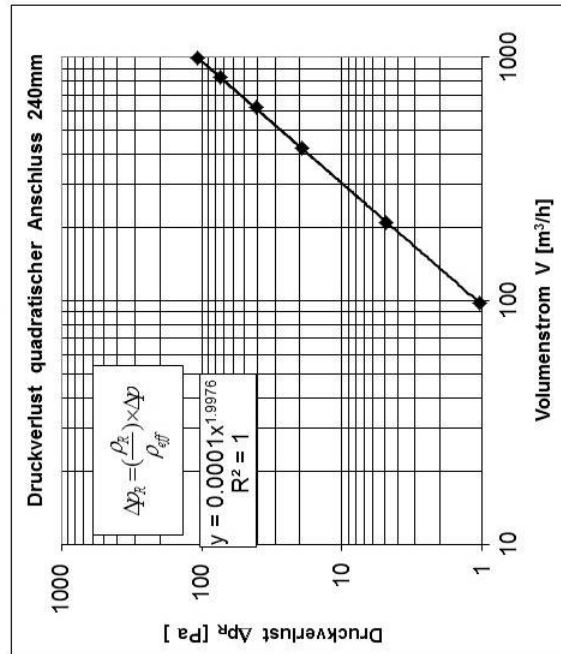
Grille pare-pluie découpée au laser
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Débit d'air raccordement carré 240 mm

Diamètre intérieur 225.7 ± 1.5 mm
 Densité de référence 1.2 kg/m³

| | P _{éno} Pa | t °C | ρ kg/m ³ | V m ³ /h | U(V) % MW | m kg/h | Δp Pa | Δp _R Pa | Δp _R Pa | U(Δp _R) % MW | ξ _R | U(ξ) % MW |
|-----|------------------------|---------|------------------------|------------------------|--------------|-----------|----------|-----------------------|-----------------------|-----------------------------|----------------|--------------|
| MP1 | 97037 | 20.7 | 1.145 | 97.96 | 0.38 | 112.13 | 1.4 | 1.5 | 0.5 | 1.0 | 57.4 | 57.5 |
| MP2 | 97039 | 20.5 | 1.146 | 209.15 | 0.41 | 239.62 | 6.6 | 6.9 | 2.1 | 4.8 | 12.5 | 12.9 |
| MP3 | 97035 | 20.6 | 1.146 | 420.57 | 0.41 | 481.83 | 26.5 | 27.7 | 8.5 | 19.2 | 3.2 | 3.76 |
| MP4 | 97036 | 20.7 | 1.146 | 619.47 | 0.37 | 709.63 | 57.0 | 59.7 | 18.4 | 41.3 | 1.5 | 3.73 |
| MP5 | 97037 | 20.7 | 1.146 | 826.65 | 0.33 | 947.29 | 102.6 | 107.4 | 32.8 | 74.6 | 1.0 | 3.77 |
| MP6 | 97033 | 20.7 | 1.146 | 987.03 | 0.31 | 1131.50 | 146.6 | 153.4 | 46.8 | 106.6 | 0.8 | 3.2 |

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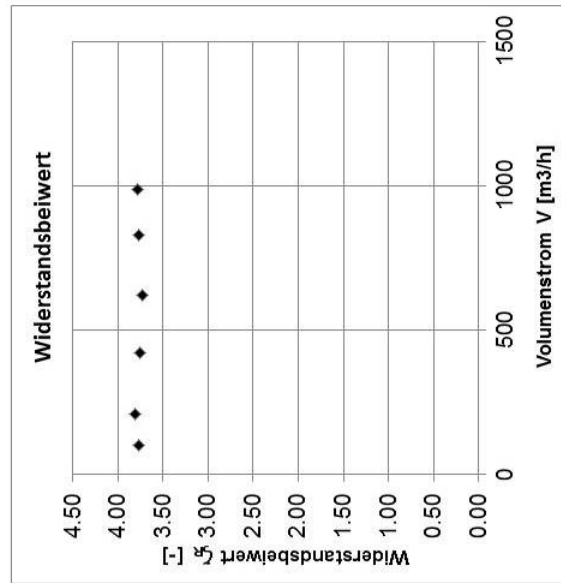


DIAGRAMME PERTE DE CHARGE

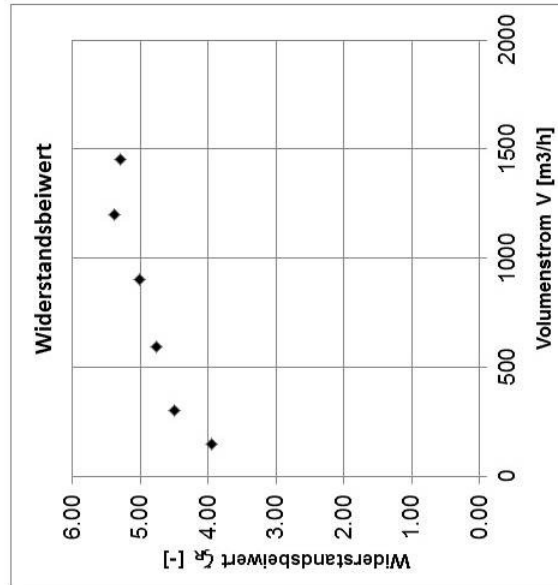
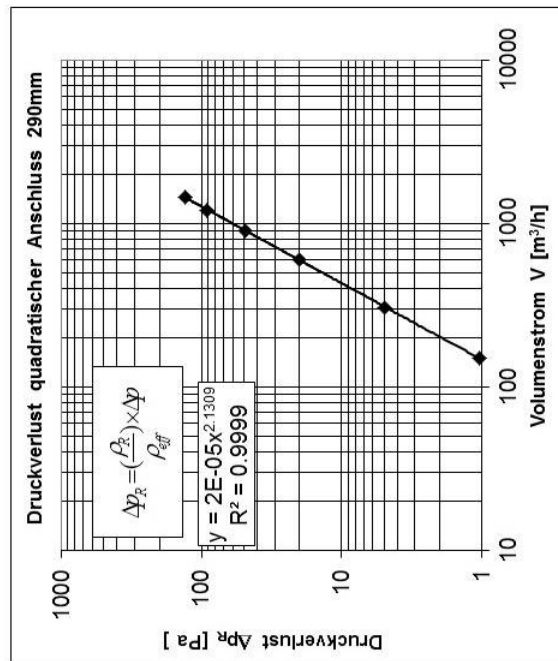
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Débit d'air raccordement carré 290 mm

Diamètre intérieur 282.1 ± 1.5 mm
 Densité de référence 1.2 kg/m³

| | P _{éno} Pa | t °C | ρ kg/m ³ | V m ³ /h | U(V) % MW | m kg/h | Δp Pa | Δp _R Pa | Δp _R Pa | Δp _R Pa | U(Δp _R) % MW | ξ _R - | U(ξ _R) % MW |
|------|------------------------|---------|------------------------|------------------------|--------------|-----------|----------|-----------------------|-----------------------|-----------------------|-----------------------------|---------------------|----------------------------|
| MP1 | 97046 | 21.1 | 1.143 | 149.70 | 0.40 | 171.15 | 1.6 | 1.7 | 0.6 | 1.0 | 59.9 | 3.94 | 60.0 |
| MP2 | 97045 | 21.2 | 1.143 | 304.42 | 0.40 | 348.03 | 6.6 | 6.9 | 1.9 | 5.0 | 16.7 | 4.51 | 16.9 |
| MP3 | 97041 | 21.2 | 1.143 | 593.98 | 0.38 | 678.99 | 24.5 | 25.7 | 5.7 | 19.9 | 8.9 | 4.77 | 9.3 |
| MP4 | 96998 | 21.6 | 1.142 | 902.46 | 0.31 | 1030.32 | 56.9 | 59.8 | 11.3 | 48.4 | 6.9 | 5.02 | 7.4 |
| MP5* | 97037 | 21.7 | 1.142 | 1200.21 | 0.41 | 1370.34 | 102.6 | 107.8 | 16.0 | 91.9 | 2.0 | 5.38 | 3.4 |
| MP6* | 97034 | 21.7 | 1.142 | 1451.57 | 0.40 | 1657.88 | 146.7 | 154.1 | 21.9 | 132.2 | 1.9 | 5.30 | 3.3 |

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 *Messreihen sind von dem Gross-Lüftungs-Komponenten-Prüfstand übernommen



Druckverlust Perte de pression
 Widerstandsbeiwert Coefficient de résistance
 Volumenstrom Ecoulement volumétrique

DIAGRAMME PERTE DE CHARGE

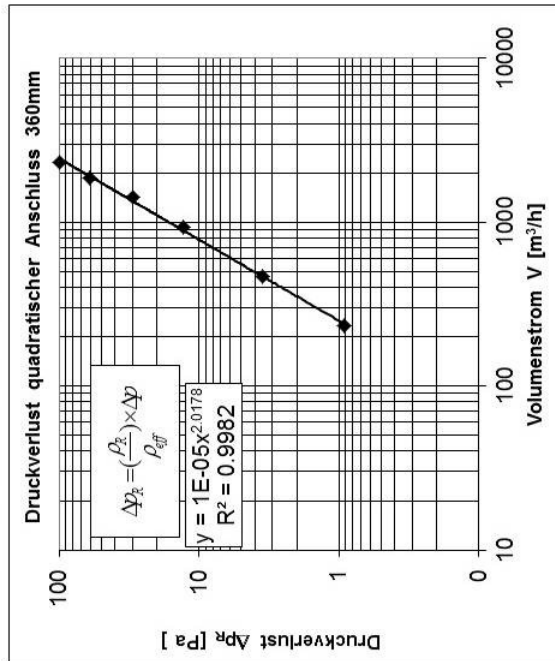
Grille pare-pluie découpée au laser
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Débit d'air raccordement carré 360 mm

Diamètre intérieur 361.1 ± 1.5 mm
 Densité de référence 1.2 kg/m³

| | P _{éaero} Pa | t °C | ρ kg/m ³ | V m ³ /h | U(V) % MW | m kg/h | Δp Pa | Δp _R Pa | Δp _R Pa | Δp _R Pa | U(Δp _R) % MW | ξ _R - | U(ξ _R) % MW |
|------|--------------------------|---------|------------------------|------------------------|--------------|-----------|----------|-----------------------|-----------------------|-----------------------|-----------------------------|---------------------|----------------------------|
| MP1 | 97048 | 20.3 | 1.146 | 232.01 | 0.41 | 265.98 | 1.2 | 1.2 | 0.3 | 0.9 | 65.8 | 3.84 | 65.8 |
| MP2 | 97044 | 20.3 | 1.147 | 467.32 | 0.38 | 535.80 | 4.8 | 5.0 | 1.4 | 3.6 | 17.0 | 3.70 | 17.1 |
| MP3 | 97052 | 20.5 | 1.146 | 930.84 | 0.31 | 1066.62 | 18.5 | 19.4 | 6.2 | 13.1 | 5.0 | 3.44 | 5.4 |
| MP4* | 96070 | 22.2 | 1.135 | 1409.85 | 0.40 | 1599.78 | 17.0 | 18.0 | 13.3 | 30.0 | 6.3 | 3.42 | 6.8 |
| MP5* | 96074 | 22.3 | 1.135 | 1868.36 | 0.38 | 2120.17 | 29.0 | 30.7 | 23.7 | 60.7 | 5.4 | 3.94 | 6.0 |
| MP6* | 96081 | 22.2 | 1.135 | 2326.49 | 0.38 | 2641.02 | 44.4 | 47.0 | 37.2 | 99.6 | 5.1 | 4.17 | 5.7 |

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