

Between us, ideas become reality®

Perforations

Intelligent sound control

HOW TO CHOOSE THE RIGHT PERFORATION ?

Metal ceilings combine smart soundproofing with an attractive indoor environment. Armstrong Metal Perforations offer a wide range of design options and effective acoustic comfort.

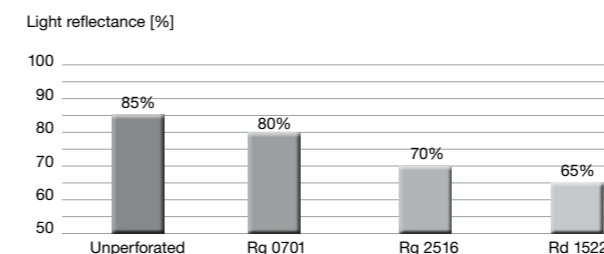
Reverberation time

It's important to optimise a room's reverberation time, according to how it is used – the reverberation depends on the available space and total absorption.

Sound absorption

One of the key functions of a metal ceiling is to create a pleasant atmosphere enhanced by intelligent noise abatement. Armstrong perforations offer a vast spectrum of aesthetic solutions for effective acoustic comfort. Depending on the intended purpose of a room, reverberation times will need to be optimised as well. This parameter depends on the total absorption capacity of the room. Airborne sound absorption is based on the conversion of sound energy into heat by friction processes which take place in absorbing materials and systems.

Perforation and light reflectance



Comparative measurements with coated white RAL 9010 ceiling tiles. Measured in accordance with EN ISO 7742-2 & EN ISO 7742-3

The brighter the ceiling surface, the better the light reflectance. Thus a surface with fewer perforations has a higher light reflectance.

For example, the Ultra Microperforation Rg 0501, with just a 0.64% perforation level, reflects significantly more light than other variants.

Armstrong perforation description

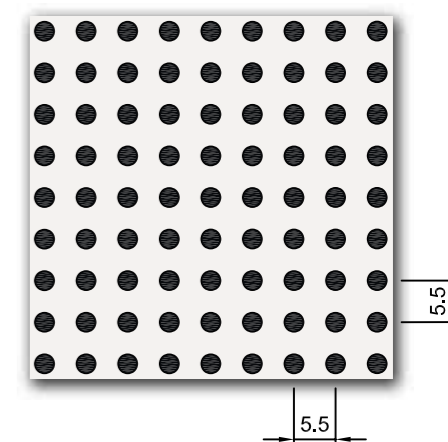
The following product prefixes describe the shape and arrangement of perforations:

- Rd** = Round perforations, diagonal
- Rg** = Round perforations, square pitch
- Rv** = Round perforations, straight
- Qg** = Square perforations, square pitch
- Qd** = Square perforations, diagonal
- Lg** = Slotted perforations, square pitch
- Lv** = Slotted perforations, straight
- Tv** = Diamond perforations, straight

The numbers define the perforation size and free area. The first two, and occasionally three, numbers denote the hole diameter in tenths of millimetres and the last two digits the proportion of free cross-sectional area.

Example:

- Rg 2516**
- Round perforation, square pitch
- Hole diameter: 2.5 mm
- Free area: 16%



Manufacturing accreditation

In our manufacturing operations, not only do we continue to take care in the selection of raw materials and energy, reduce waste and embrace effective recycling methods, but we also ensure that our products conform to safety, environmental and quality standards.

Our European manufacturing plants are certified to:

- ISO 9001:2008**
- ISO 14001:2004**
- OHSAS 18001:2007**

Memberships and associations

Armstrong is a member of TAIM (Technical Association of Industrial Metal Ceilings).

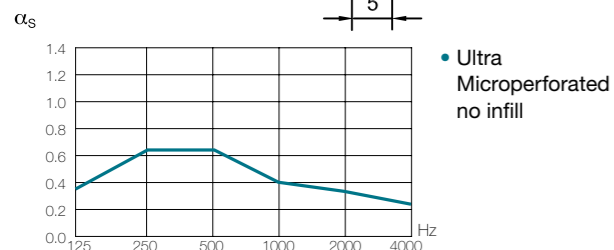
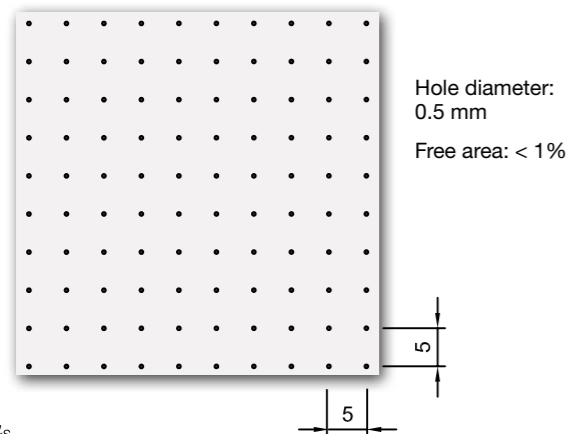
TAIM was founded in 1988 and its primary objective is to promote quality and to set minimum quality standards and requirements for metal ceilings systems.



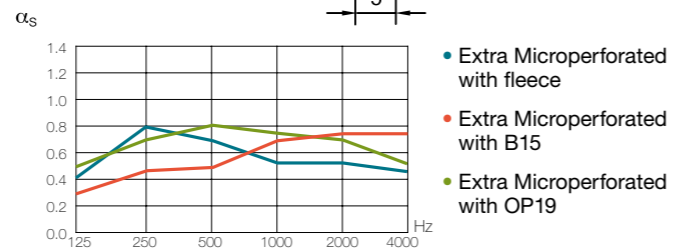
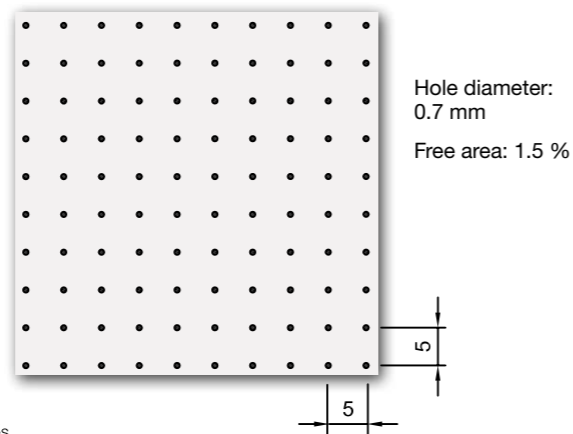
STANDARD PERFORATIONS

Armstrong has a wide range of standard perforation products, with special variants also available. Since the maximum continuity and perforation can vary according to the tool, not all perforations are available in all widths. For further details, please contact us.

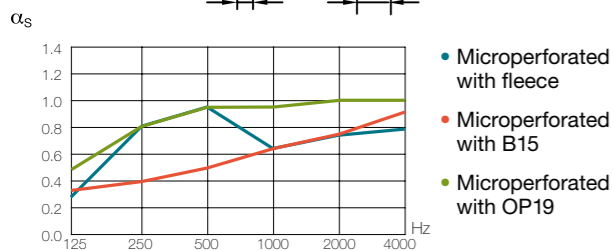
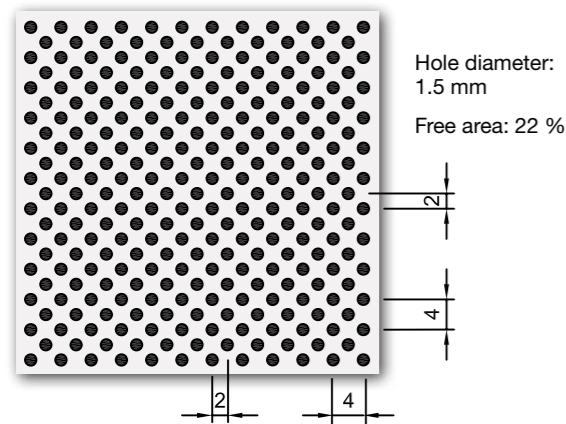
Ultra Microperforation - Rg 0501



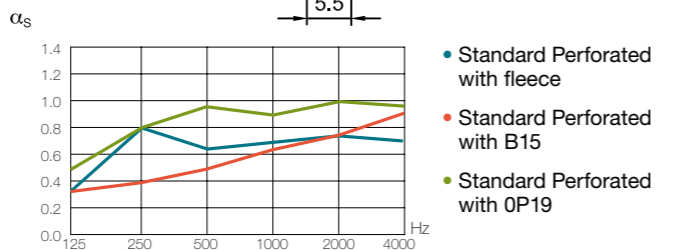
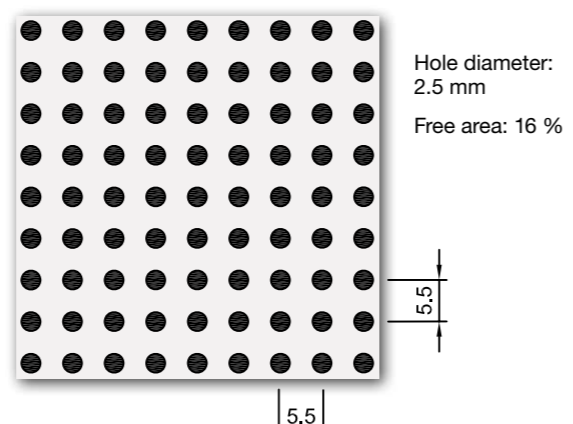
Extra Microperforation - Rg 0701



Micro Perforation - Rd 1522

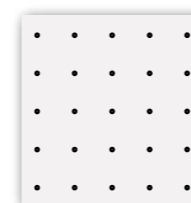


Standard Perforation - Rg 2516



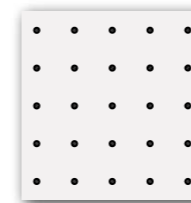
Armstrong metal ceilings with the revolutionary Ultra Microperforation have set new standards. No additional acoustic infills are needed to absorb sound waves; the Armstrong metal ceiling achieves the necessary sound absorption using near-invisible 0.5mm perforations.

| α_w | Sound absorption | | | | | | | Hz | Abs Class | Cert N° | Sound attenuation | | Sound reduction | |
|------------|------------------|-----|-----|-----|------|------|------|----|-----------|---------|-------------------|---------|-----------------|---------|
| | NRC | 125 | 250 | 500 | 1000 | 2000 | 4000 | | | | Dncw | Cert N° | Rw | Cert N° |



Ultra Microperforated - no infill

| | | | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------------|---|------|-------|-----------|---|---|
| • 0.40(LM) | 0.55 | 0.35 | 0.65 | 0.65 | 0.40 | 0.35 | 0.25 | α_p | D | 2252 | 18 dB | 3844-98-1 | - | - |
|------------|------|------|------|------|------|------|------|------------|---|------|-------|-----------|---|---|



Extra Microperforated with fleece

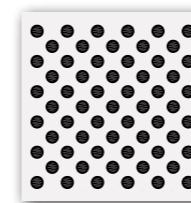
| | | | | | | | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------------|---|------|-------|------|---|---|
| • 0.55(L) | 0.65 | 0.40 | 0.80 | 0.70 | 0.55 | 0.55 | 0.45 | α_p | D | 2253 | 30 dB | 2432 | - | - |
|-----------|------|------|------|------|------|------|------|------------|---|------|-------|------|---|---|

Extra Microperforated with B15

| | | | | | | | | | | | | | | |
|--------|------|------|------|------|------|------|------|------------|---|------|-------|------|---|---|
| • 0.65 | 0.60 | 0.30 | 0.45 | 0.50 | 0.70 | 0.75 | 0.75 | α_p | C | 2334 | 40 dB | 2427 | - | - |
|--------|------|------|------|------|------|------|------|------------|---|------|-------|------|---|---|

Extra Microperforated with OP19

| | | | | | | | | | | | | | | |
|--------|------|------|------|------|------|------|------|------------|---|-------|-------|-------|-------|-------|
| • 0.70 | 0.75 | 0.50 | 0.70 | 0.80 | 0.75 | 0.70 | 0.50 | α_p | C | 6714a | 31 dB | 6720a | 15 dB | 6725a |
|--------|------|------|------|------|------|------|------|------------|---|-------|-------|-------|-------|-------|



Microperforated with fleece

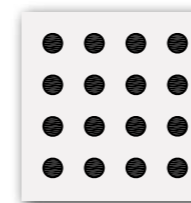
| | | | | | | | | | | | | | | |
|--------|------|------|------|------|------|------|------|------------|---|------|-------|------|------|------|
| • 0.75 | 0.80 | 0.30 | 0.80 | 0.95 | 0.65 | 0.75 | 0.80 | α_p | C | 2175 | 20 dB | 2437 | 6 dB | 5939 |
|--------|------|------|------|------|------|------|------|------------|---|------|-------|------|------|------|

Microperforated with B15

| | | | | | | | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------------|---|------|-------|------|-------|------|
| • 0.60(H) | 0.60 | 0.35 | 0.40 | 0.50 | 0.65 | 0.75 | 0.90 | α_p | C | 2337 | 41 dB | 2443 | 18 dB | 5941 |
|-----------|------|------|------|------|------|------|------|------------|---|------|-------|------|-------|------|

Microperforated with OP19

| | | | | | | | | | | | | | | |
|--------|------|------|------|------|------|------|------|------------|---|-------|-------|-------|-------|-------|
| • 1.00 | 0.90 | 0.50 | 0.80 | 0.95 | 0.95 | 1.00 | 1.00 | α_p | A | 6713a | 27 dB | 6719a | 12 dB | 6724a |
|--------|------|------|------|------|------|------|------|------------|---|-------|-------|-------|-------|-------|



Standard Perforated with fleece

| | | | | | | | | | | | | | | |
|--------|------|------|------|------|------|------|------|------------|---|--------|-------|-------|------|-------|
| • 0.75 | 0.75 | 0.35 | 0.80 | 0.65 | 0.70 | 0.75 | 0.70 | α_p | C | 141401 | 20 dB | 2437* | 6 dB | 5939* |
|--------|------|------|------|------|------|------|------|------------|---|--------|-------|-------|------|-------|

Standard Perforated with B15

| | | | | | | | | | | | | | | |
|-----------|------|------|------|------|------|------|------|------------|---|------|-------|-------|-------|-------|
| • 0.60(H) | 0.60 | 0.35 | 0.40 | 0.50 | 0.65 | 0.75 | 0.90 | α_p | C | 2340 | 41 dB | 2443* | 18 dB | 5941* |
|-----------|------|------|------|------|------|------|------|------------|---|------|-------|-------|-------|-------|

Standard Perforated with OP19

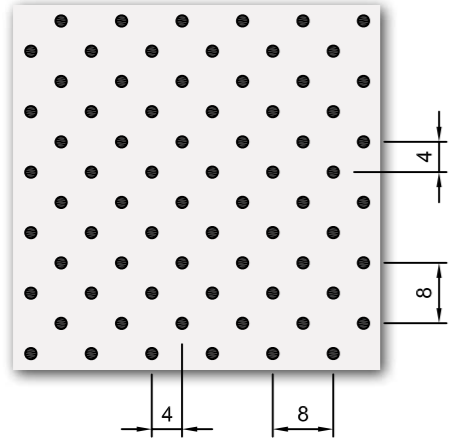
| | | | | | | | | | | | | | | |
|--------|------|------|------|------|------|------|------|------------|---|-------|-------|-------|-------|-------|
| • 0.95 | 0.90 | 0.50 | 0.80 | 0.95 | 0.90 | 1.00 | 0.95 | α_p | A | 6715a | 28 dB | 6721a | 13 dB | 6726a |
|--------|------|------|------|------|------|------|------|------------|---|-------|-------|-------|-------|-------|

* Highlighted Dncw and Rw performances for the Standard Perforation (16% open area) are estimated as being not less than the tested Microperforated (22% open area) performance. All Armstrong acoustic testing is conducted at independent third party accredited laboratories.

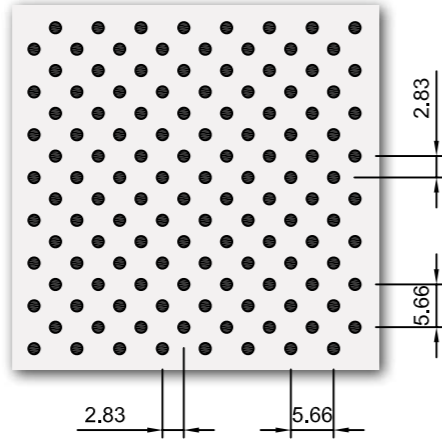
SEMI STANDARD PERFORATIONS

Rd - Round perforations, diagonal

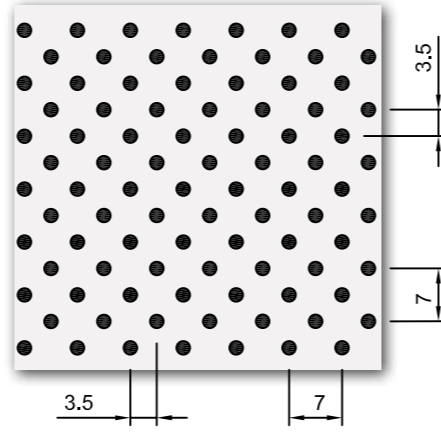
Rd 1506
Hole diameter: 1.5 mm
Free area: 6 %



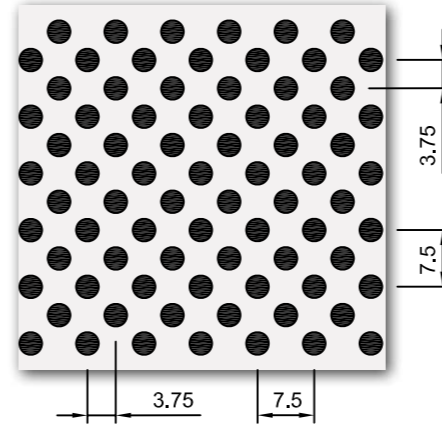
Rd 1511
Hole diameter: 1.5 mm
Free area: 11 %



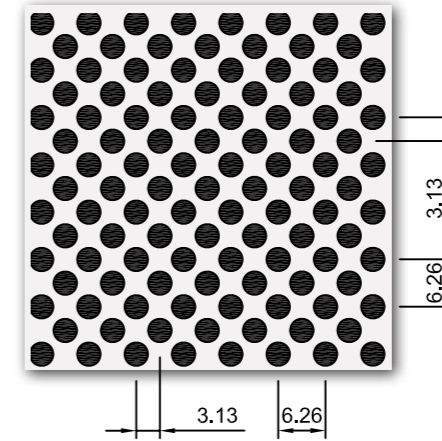
Rd 1810
Hole diameter: 1.8 mm
Free area: 10 %



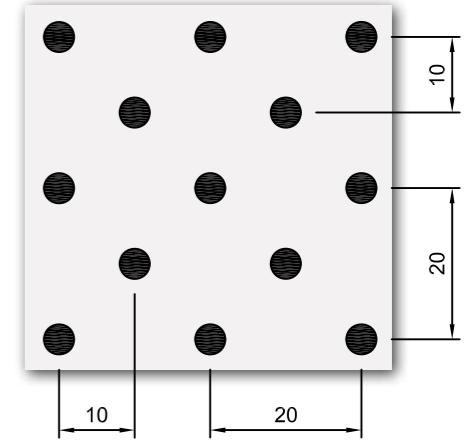
Rd 3025
Hole diameter: 3.0 mm
Free area: 25 %



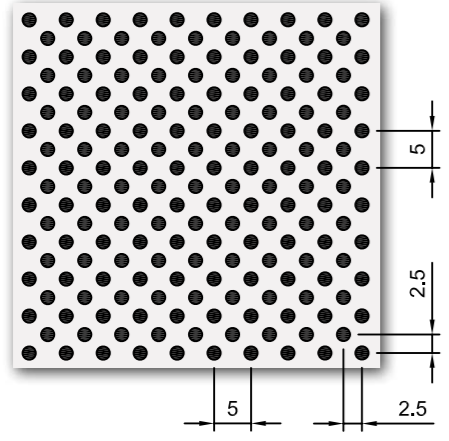
Rd 3139
Hole diameter: 3.1 mm
Free area: 39 %



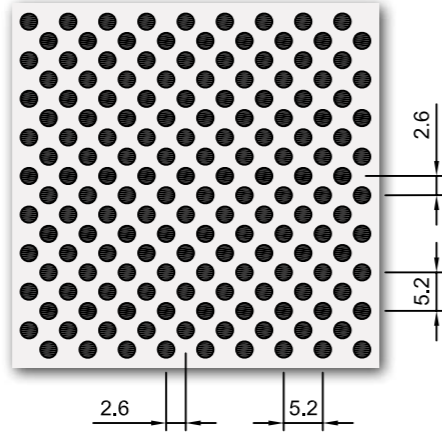
Rd 4006
Hole diameter: 4.0 mm
Free area: 6 %



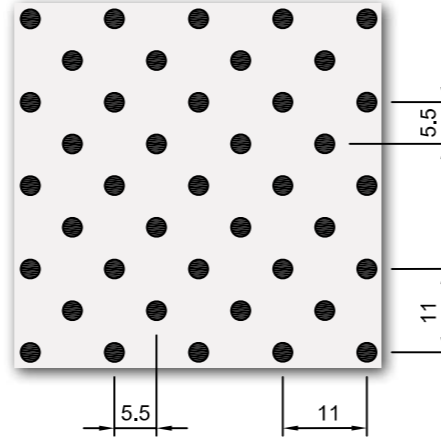
Rd 1820
Hole diameter: 1.8 mm
Free area: 20 %



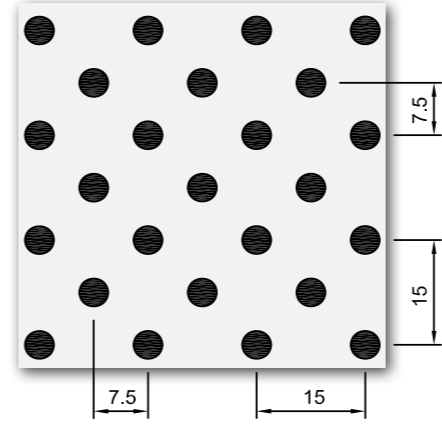
Rd 2228
Hole diameter: 2.2 mm
Free area: 28 %



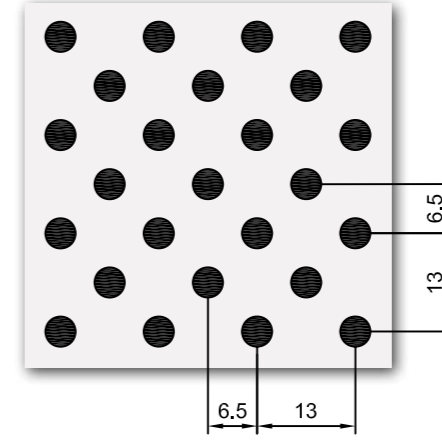
Rd 2508
Hole diameter: 2.5 mm
Free area: 8 %



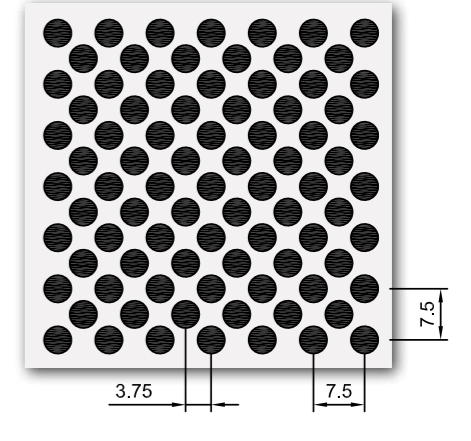
Rd 4011
Hole diameter: 4.0 mm
Free area: 11 %



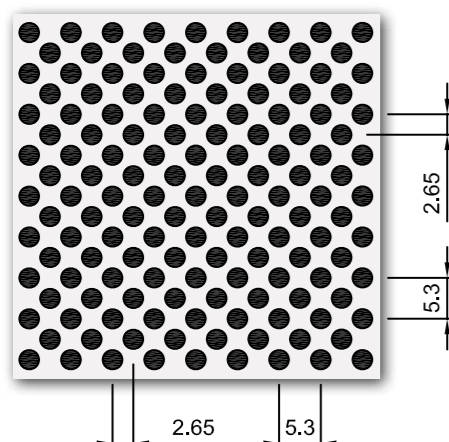
Rd 4015
Hole diameter: 4.0 mm
Free area: 15 %



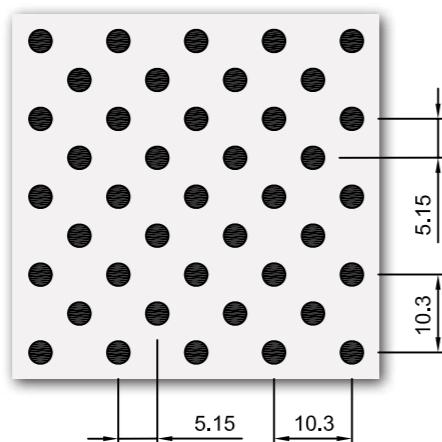
Rd 4045
Hole diameter: 4.0 mm
Free area: 45 %



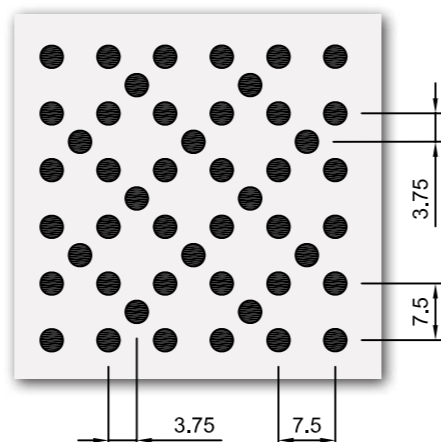
Rd 2535
Hole diameter: 2.5 mm
Free area: 35 %



Rd 3013
Hole diameter: 3.0 mm
Free area: 13 %

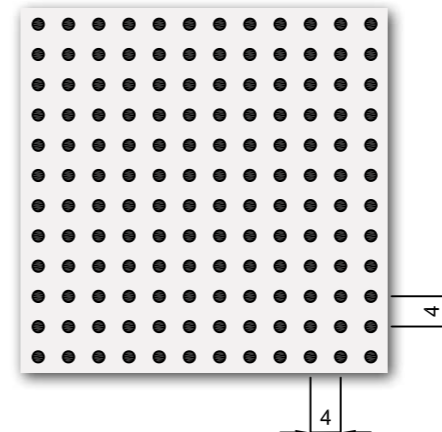


Rd 3019
Hole diameter: 3.0 mm
Free area: 19 %

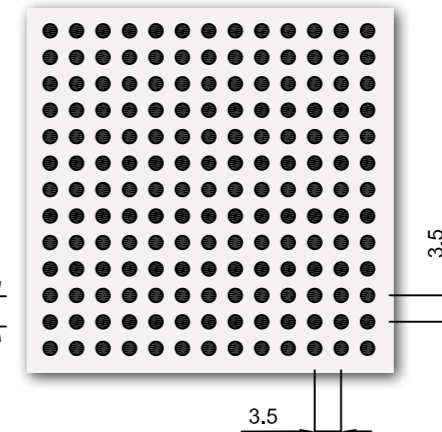


Rg - Round perforations, square pitch

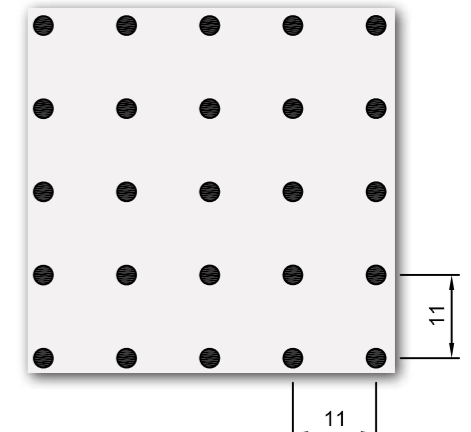
Rg 1511
Hole diameter: 1.5 mm
Free area: 11 %



Rg 1821
Hole diameter: 1.8 mm
Free area: 21 %



Rg 2504
Hole diameter: 2.5 mm
Free area: 4 %

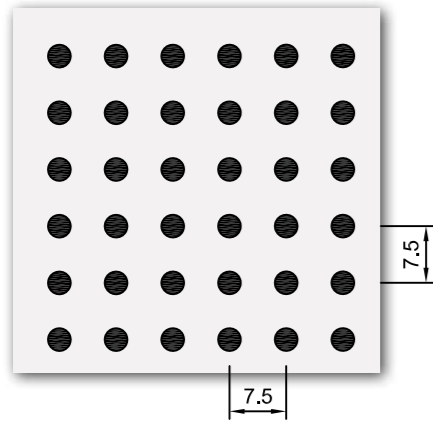


SEMI STANDARD PERFORATIONS

Rg - Round perforations, square pitch

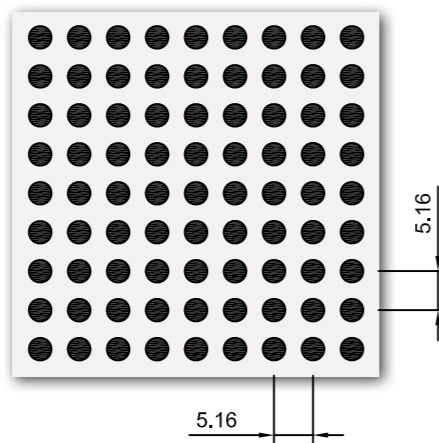
Rg 3013

Hole diameter: 3.0 mm
Free area: 13 %



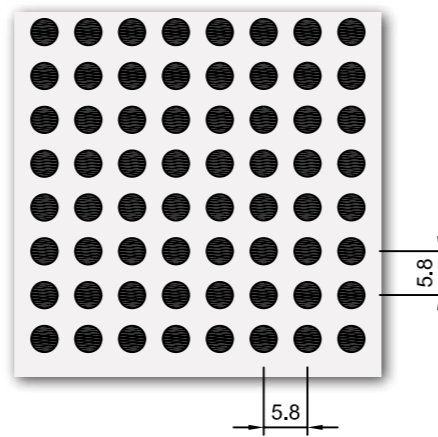
Rg 3027

Hole diameter: 3.0 mm
Free area: 27 %



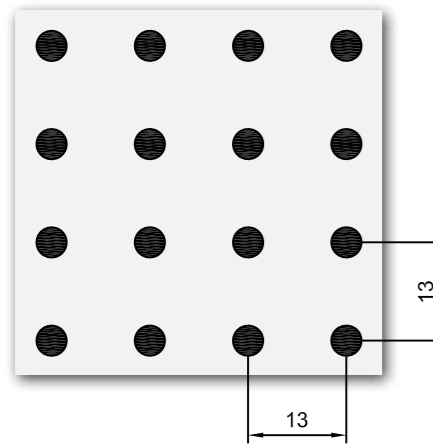
Rg 3529

Hole diameter: 3.5 mm
Free area: 29 %



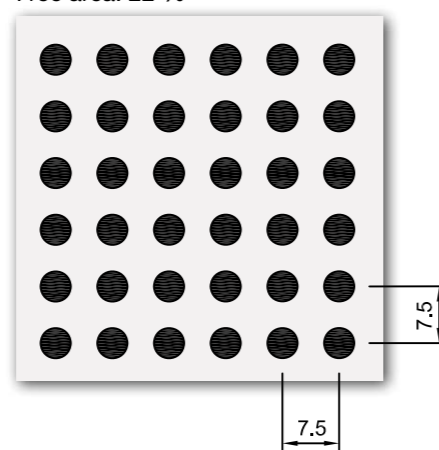
Rg 4007

Hole diameter: 4.0 mm
Free area: 7 %



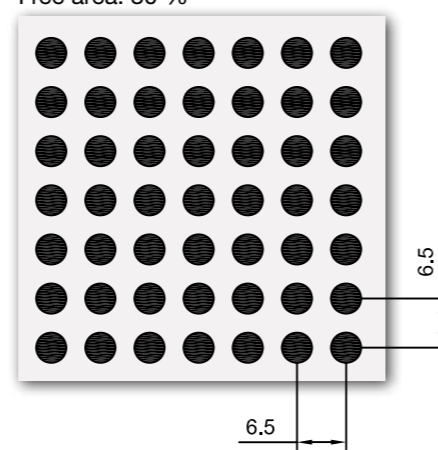
Rg 4022

Hole diameter: 4.0 mm
Free area: 22 %



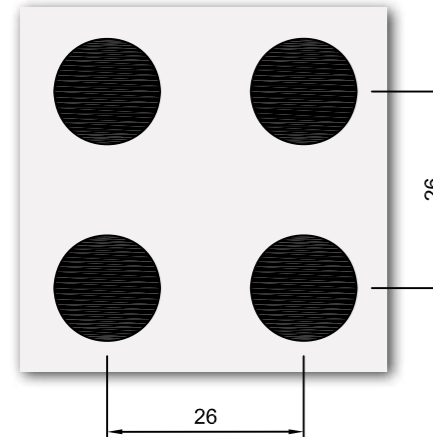
Rg 4030

Hole diameter: 4.0 mm
Free area: 30 %



Rg 14023

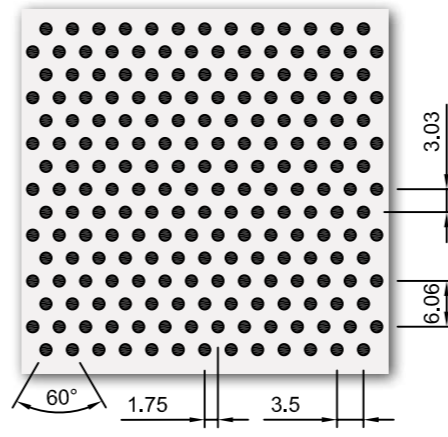
Hole diameter: 14 mm
Free area: 23 %



Rv - Round perforations, straight

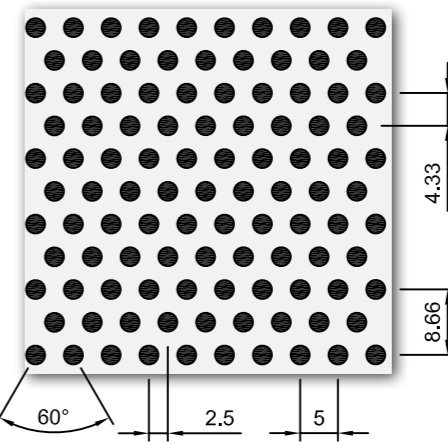
Rv 1517

Hole diameter: 1.5 mm
Free area: 17 %



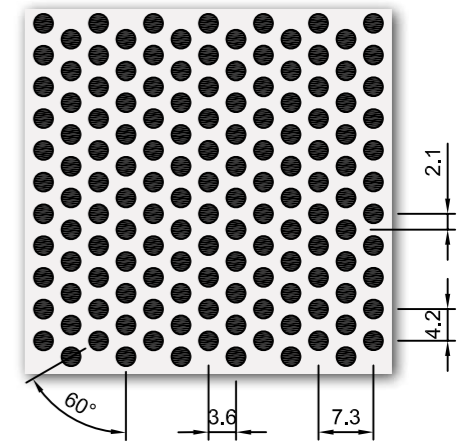
Rv 2523

Hole diameter: 2.5 mm
Free area: 23 %



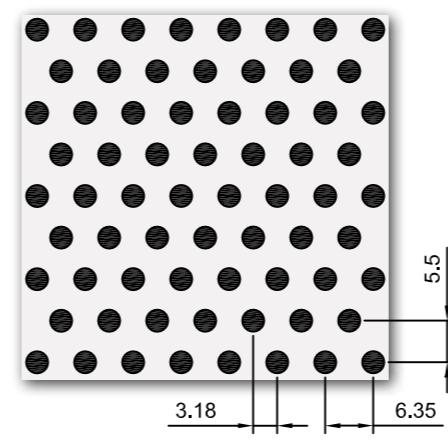
Rv 2532

Hole diameter: 2.5 mm
Free area: 32 %



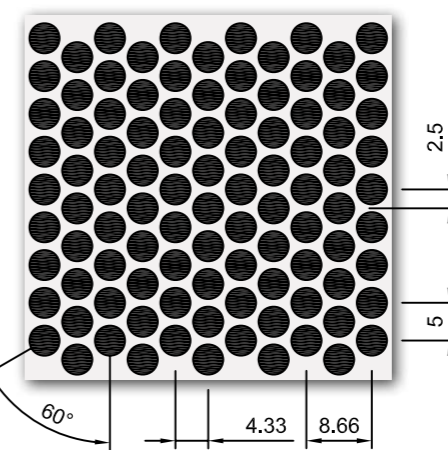
Rv 2919

Hole diameter: 2.9 mm
Free area: 19 %



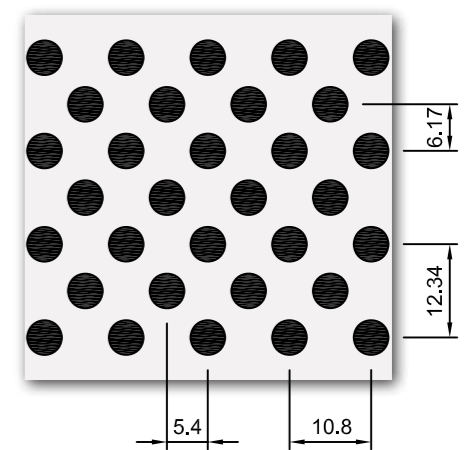
Rv 4058

Hole diameter: 4.0 mm
Free area: 58 %



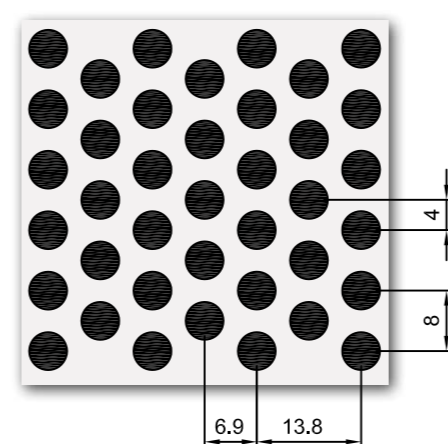
Rv 4625

Hole diameter: 4.6 mm
Free area: 25 %



Rv 5036

Hole diameter: 5.0 mm
Free area: 36 %



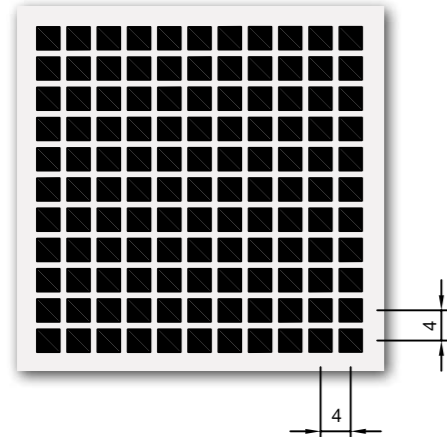
SEMI STANDARD PERFORATIONS

Qg - Square perforations, square pitch / Qd - Square perforations, diagonal

Lg - Slotted perforations, square pitch / Lv - Slotted perforations, straight

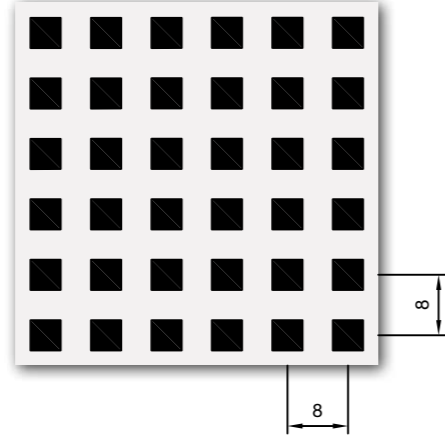
Qg 3056

Hole diameter: 3 x 3 mm
Free area: 56 %



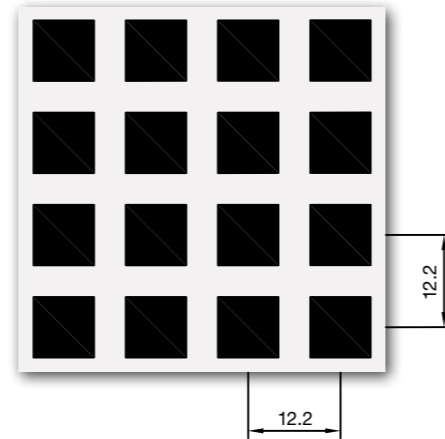
Qg 4025

Hole diameter: 4 x 4 mm
Free area: 25 %



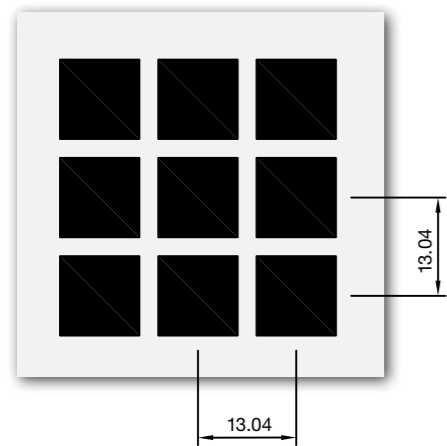
Qg 8043

Hole diameter: 8 x 8 mm
Free area: 43 %



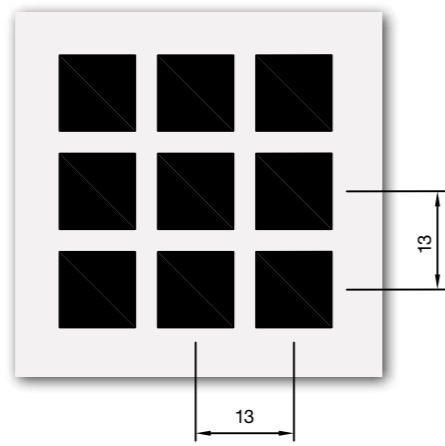
Qg 10059

Hole diameter: 10 x 10 mm
Free area: 59 %



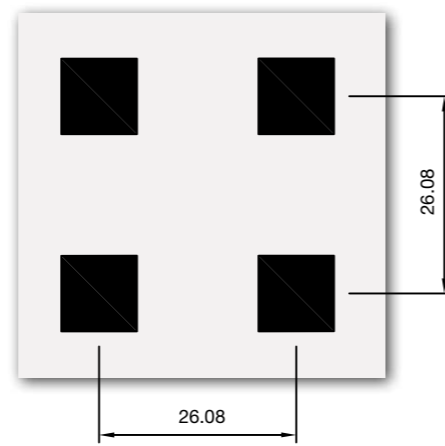
Qg 10565

Hole diameter: 10.5 x 10.5 mm
Free area: 65 %



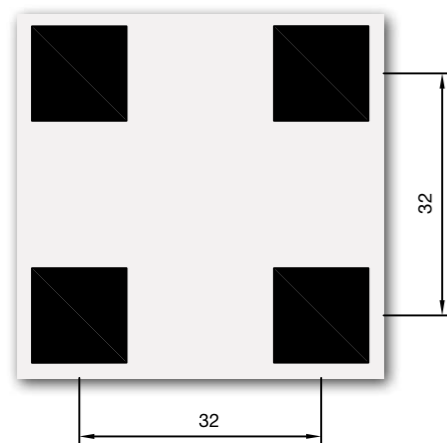
Qg 10015

Hole diameter: 10 x 10 mm
Free area: 15 %



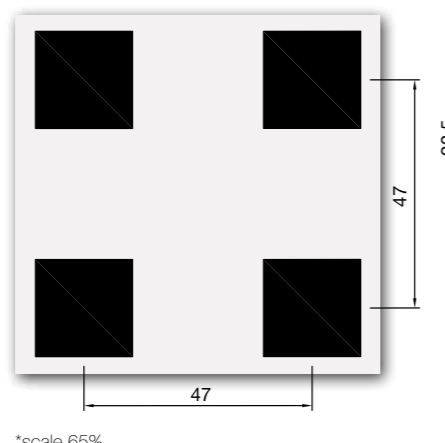
Qg 12515

Hole diameter: 12.5 x 12.5 mm
Free area: 15 %



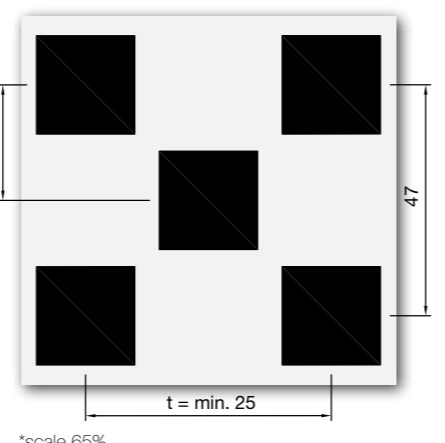
Qg 20018*

Hole diameter: 20 x 20 mm
Free area: 18 %



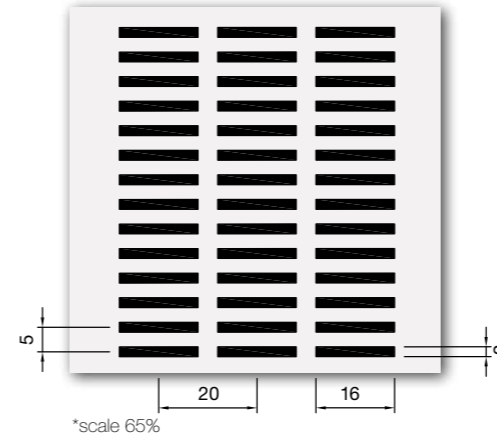
Qd 20034*

Hole diameter: 20 x 20 mm
Free area: 34 %



Lg 16032*

Hole diameter: 16 x 2 mm
Free area: 32 %



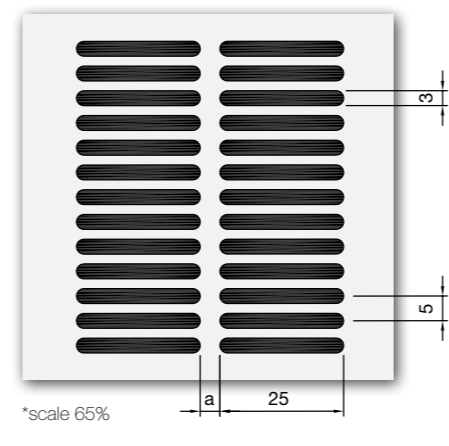
Lg 42003*

Hole diameter: 42 x 2 mm
Free area: 3 %



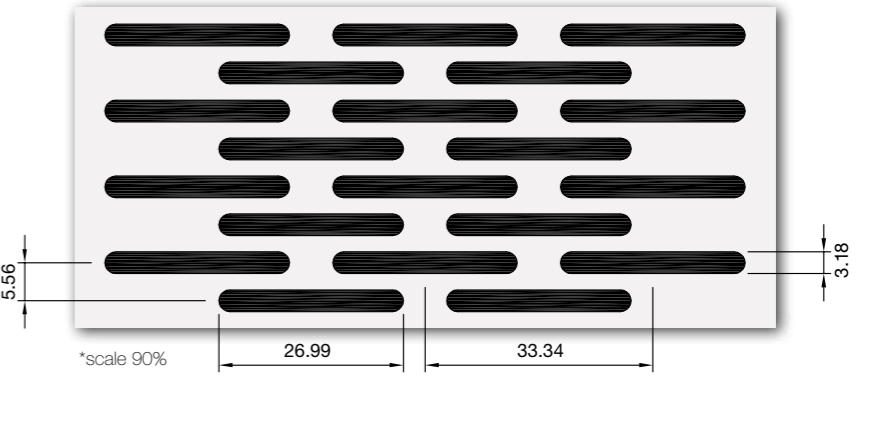
Lg 25042*

Hole diameter: 25 x 3 mm
Free area: 42 %



Lv 27045*

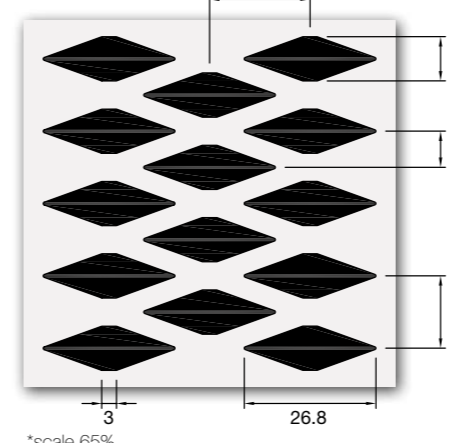
Hole diameter: 3.18 x 26.99 mm
Free area: 45 %



Tv - Diamond perforations, straight

Tv 26845*

Hole diameter: 26.8 x 9 mm
Free area: 45 %



APPLICATIONS

| Perforation description | Max. perforation width (mm) | Max. opening width (mm) | Material thickness (mm) | |
|-------------------------|-----------------------------|-------------------------|-------------------------|------------|
| | | | Steel | Aluminium |
| Rd 1511 | 1,258 | 1,280 | 0.5 - 0.7 | 0.6 - 0.8 |
| Rd 1522 | 1,595.5 | 1,600 | 0.5 - 0.7 | 0.6 - 0.8 |
| | 1,551.5 | 1,600 | 1.0 - 1.25 | 1.0 - 1.25 |
| Rd 1506 | 1,595.5 | 1,600 | 0.5 - 0.7 | 0.6 - 0.8 |
| Rd 1810 | 701.8 | 770 | 0.5 - 0.7 | 0.6 - 0.8 |
| Rd 1820 | 675 | 750 | 0.5 - 0.6 | -- |
| Rd 2228 | 1,497.2 | 1,600 | 0.5 - 1.0 | 0.6 - 1.0 |
| Rd 2508 | 1,509.5 | 1,600 | 0.5 - 1.0 | 0.6 - 1.2 |
| Rd 2535 | 1,274.5 | 1,280 | 0.5 - 0.7 | 0.6 - 0.8 |
| Rd 3013 | 621 | 745 | 0.5 - 1.0 | 0.6 - 1.0 |
| Rd 3019 | 708 | 770 | 0.5 - 0.9 | 0.6 - 1.0 |
| Rd 3025 | 708 | 770 | 0.5 - 0.9 | 0.6 - 1.0 |
| Rd 3139 | 901.41 | 950 | 0.5 - 0.7 | 0.6 - 0.8 |
| Rd 4006 | 704 | 770 | 0.5 - 0.9 | 0.6 - 1.0 |
| Rd 4011 | 611.5 | 745 | 0.5 - 1.0 | 0.6 - 1.0 |
| Rd 4015 | 702 | 750 | 0.5 - 0.6 | -- |
| Rd 4045 | 750 | 810 | 0.5 - 0.6 | -- |
| Rg 0501 | 625.5 | 745 | 0.5 | -- |
| Rg 0701 | 1,500 | 1,600 | 0.5 - 0.7 | 0.6 - 0.7 |
| Rg 1511 | 1,593.5 | 1,600 | 0.5 - 0.7 | 0.6 - 0.8 |
| | 1,549.5 | 1,600 | 1.0 - 1.25 | 1.0 - 1.25 |
| Rg 1821 | 701.8 | 770 | 0.5 - 0.7 | 0.6 - 0.8 |
| Rg 2516 | 1,509.5 | 1,600 | 0.5 - 1.0 | 0.6 - 1.2 |
| Rg 2504 | 1,498.5 | 1,600 | 0.5 - 1.0 | 0.6 - 1.2 |
| Rg 3013 | 708 | 770 | 0.5 - 0.9 | 0.6 - 1.0 |
| | 615 | 745 | 0.5 - 1.0 | 0.6 - 1.0 |
| Rg 3027 | 616.5 | 745 | 0.5 - 1.0 | 0.6 - 1.0 |
| Rg 3529 | 1,575.3 | 1,600 | 0.5 - 1.0 | 0.6 - 2.0 |
| Rg 4022 | 611.5 | 745 | 0.5 - 1.0 | 0.6 - 1.0 |
| Rg 4030 | 702 | 750 | 0.5 - 0.6 | -- |
| Rg 4007 | 702 | 750 | 0.5 - 0.6 | -- |
| Rg 14023 | 638 | 745 | 0.5 - 1.0 | 0.6 - 1.0 |
| Rv 1517 | 1,510.25 | 1,600 | 0.5 - 0.75 | -- |
| Rv 2523 | 1,252.5 | 1,280 | 0.5 - 0.9 | 0.6 - 1.0 |
| Rv 2532 | 1,590 | 1,600 | 0.5 - 0.75 | 0.6 - 1.2 |
| Rv 2919 | 685.8 | 750 | 0.5 - 0.6 | -- |
| Rv 4058 | 775 | 1,010 | 0.6 - 0.8 | -- |
| Rv 4625 | 949.6 | 1,080 | 0.5 - 0.7 | 0.6 - 1.0 |
| Rv 5036 | 483 | 550 | 0.5 - 0.6 | -- |
| Qg 3056 | 699 | 1,280 | 0.5 - 0.7 | -- |
| Qg 4025 | 708 | 770 | 0.5 - 0.7 | 0.6 - 0.8 |
| Qg 8043 | 642.4 | 745 | 0.5 - 1.0 | 0.6 - 1.0 |
| Qg 10059 | 647 | 745 | 0.5 - 0.8 | -- |
| | 650 | 750 | 0.5 - 0.6 | -- |
| Qg 10015 | 650 | 750 | 0.5 - 0.6 | -- |
| Qg 10565 | 647 | 745 | 0.5 - 0.8 | -- |
| Qg 12515 | 1,004.5 | 1,280 | 0.5 - 0.7 | 0.6 - 0.8 |
| Qg 20018 | 631 | 745 | 0.5 - 0.8 | 0.6 - 0.8 |
| Qd 20034 | 631 | 745 | 0.5 - 0.8 | 0.6 - 0.8 |
| Lg 16032 | 778 | 810 | 0.5 - 0.6 | -- |
| Lg 25042 | 619 | 745 | 0.5 - 0.8 | 0.6 - 0.8 |
| Lg 42003 | 1,001 | 1,100 | 0.5 - 0.8 | 0.6 - 0.8 |
| Lv 27045 | 850 | 860 | 0.5 - 0.7 | -- |
| Tv 26845 | 803.7 | 1,010 | 0.6 - 0.7 | -- |

Retail & Leisure



PROJECT::: O2 ARENA, Main and VIP Lobby, Berlin (D)
 ARCHITECT::: HOK Sport
 Schmidhuber & Partner, Berlin
 CEILING CONTRACTOR::: Rogge Spezialbau, Berlin
 SOLUTION::: R-H 200 Ceiling, W-H 1100 Wall Cladding

Custom made round perforation



PROJECT::: Emerald Headquarter (PL)
 OWNER::: EMERALD
 ARCHITECT::: ARCHITEL Renata Baczkowska
 SOLUTION::: Lay-In Axal Vector

Perforation Rg 0701
 Acoustic performance VLS (black)

Office



PROJECT::: Theological Faculty of Silesian University (PL)
 OWNER::: The Metropolitan Curia of Katowice Achidiocese
 ARCHITECT::: STABIL SP. Z O.O.
 SOLUTION::: Lay-In Tegular

Perforation Qg 3056
 Acoustic performance VLS (black)

Education

Transport



PROJECT::: Aeropuerto de Barajas (SP)
 ARCHITECT::: Ingenor Siglo XXI & Ineco - Aena
 CEILING CONTRACTOR::: CORRAL TELLEZ, S.L.
 SOLUTION::: Lay-In Tegular

Perforation Rd 1522
 Acoustic performance VLS (black)

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The logo features the word "Armstrong" in a bold, sans-serif font, enclosed within a circular border.