

ACOUSTIC INSULATING GLASS

LamiGlass® Sound Control

Safety and acoustic performance.

LamiGlass® Sound Control combines excellent acoustic performance with all benefits of traditional laminated safety glass.

Due to the use of an optimized PVB interlayer, an improved product is available, which specifically offers a clearly measurable increase of noise protection, especially in insulating glass. LamiGlass® Sound Control can be combined with all GUARDIAN function glasses and can be processed like conventional laminated glass.

- Ideal combination of supreme attributes in one product
- Safety properties of laminated glass combined with acoustic insulation of cast resin
- Sound reduction (R_w) up to 51 dB
- Safe break-behavior even with highest demands of the pendulum impact test
- Safety class up to P2A with ball drop test
- According to requirements on linear jointed glazing and glazing against sudden fall
- Supreme optical attributes light stability, clearness, transparency
- Long lifetime and edge stability through optimal glass-adhesion of PVB-interlayer
- Minimized UV-transmission
- Available as jumbo and Lehr end size
- Highest light transmittance, neutral colour, optimized thermal insulation in combination with GUARDIAN ClimaGuard® Premium Low-E glass



| Type | Glazing | Interlayer | Thickness | R _w | C _{tr} | U-Value | Safety level | | Light Transmission | Solar Factor |
|------------------|-----------------|------------|-----------|----------------|-----------------|-----------------------------|------------------|---------------------------|--------------------|--------------|
| | | | [mm] | [dB] | [dB] | EN 673 [W/m ² K] | Ball drop EN 356 | Pendulum impact EN 12 600 | [%] | EN 410 [%] |
| Single Glazing | | | | | | | | | | |
| SC 44.2 | 4/0,76/4 | SC | 9 | 37 | -3 | 5.7 | P1A | 1(B)1 | 90 | 81 |
| SC 44.4 | 4/1,52/4 | SC | 10 | 37 | -3 | 5.7 | P2A | 1(B)1 | 90 | 79 |
| SLA 44.1 | 4/0,50/4 | SLA | 8 | 38 | -4 | 5.7 | P1A | 1(B)1 | 90 | 81 |
| SLA 44.2 | 4/0,76/4 | SLA | 9 | 38 | -4 | 5.7 | P2A | 1(B)1 | 90 | 81 |
| SC 55.2 | 5/0,76/5 | SC | 11 | 38 | -3 | 5.6 | P1A | 1(B)1 | 89 | 79 |
| SC 66.2 | 6/0,76/6 | SC | 13 | 40 | -3 | 5.6 | P1A | 1(B)1 | 89 | 78 |
| SC 88.2 | 8/0,76/8 | SC | 17 | 42 | -3 | 5.4 | P1A | 1(B)1 | 87 | 75 |
| Double Glazing * | | | | | | | | | | |
| 25/36 | 44.2/12/4 | PVB | 25 | 36 | -5 | 1.3 (Ar) | P2A | 1(B)1 | 79 | 58 |
| 27/37 | 33.4/16/4 | PVB | 27 | 37 | -6 | 1.1 (Ar) | P4A | 1(B)1 | 80 | 58 |
| 32/39 | 44.4/16/6 | PVB | 32 | 39 | -6 | 1.1 (Ar) | P4A | 1(B)1 | 79 | 57 |
| 29/39 | 44.2/16/4 | SC | 29 | 39 | -5 | 1.1 (Ar) | P1A | 1(B)1 | 79 | 58 |
| 31/41 | 44.2/16/6 | SC | 31 | 41 | -6 | 1.1 (Ar) | P1A | 1(B)1 | 79 | 58 |
| 33/41 | 44.2/18/6 | SC | 33 | 41 | -7 | 1.1 (Ar) | P1A | 1(B)1 | 79 | 58 |
| 32/41 | 44.4/16/6 | SC | 32 | 41 | -6 | 1.1 (Ar) | P2A | 1(B)1 | 79 | 57 |
| 30/42 | 44.1/16/6 | SLA | 30 | 42 | -6 | 1.1 (Ar) | P1A | 1(B)1 | 79 | 58 |
| 35/42 | 55.2/16/8 | SC | 35 | 42 | -6 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 57 |
| 33/42 | 44.2/16/8 | SC | 33 | 42 | -7 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 58 |
| 34/42 | 44.4/18/6 | SC | 34 | 42 | -6 | 1.1 (Ar) | P2A | 1(B)1 | 79 | 57 |
| 29/43 | 44.1/14/6 | SLA | 29 | 43 | -8 | 1.1 (Kr) | P1A | 1(B)1 | 79 | 58 |
| 34/43 | 44.1/20/6 | SLA | 34 | 43 | -7 | 1.1 (Ar) | P1A | 1(B)1 | 79 | 58 |
| 37/43a | 55.2/18/8 | SC | 37 | 43 | -6 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 57 |
| 37/43b | 66.2/16/8 | SC | 37 | 43 | -6 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 56 |
| 37/43c | 66.3/16/8 | SC | 37 | 43 | -6 | 1.1 (Ar) | P1A | 1(B)1 | 77 | 55 |
| 34/44 | 44.1/16/10 | SLA | 34 | 44 | -6 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 58 |
| 35/44b | 44.2/16/10 | SC | 35 | 44 | -6 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 58 |
| 36/44 | 44.1/20/8 | SLA | 36 | 44 | -7 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 58 |
| 39/45a | 44.2/20/10 | SC | 39 | 45 | -6 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 58 |
| 39/45b | 66.3/16/10 | SC | 39 | 45 | -4 | 1.1 (Ar) | P1A | 1(B)1 | 77 | 55 |
| 34/46 | 55.1/16/44.1 | SLA/SLA | 34 | 46 | -7 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 57 |
| 37/45 | 55.2/16/10 | SC | 37 | 45 | -7 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 57 |
| 36/45a | 44.4/16/10 | SC | 36 | 45 | -7 | 1.1 (Ar) | P2A | 1(B)1 | 78 | 56 |
| 38/47 | 44.2/16/66.2 | SC/SC | 38 | 47 | -6 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 57 |
| 38/48 | 44.2/16/66.3 | SC/SC | 38 | 48 | -8 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 57 |
| 46/49 | 88.2/20/44.2 | SC/SC | 46 | 49 | -5 | 1.4 (Air) | P1A | 1(B)1 | 76 | 53 |
| 41/49 | 44.2/20/66.2 | SC/SC | 41 | 49 | -7 | 1.1 (Ar) | P1A | 1(B)1 | 78 | 57 |
| 38/49 | 44.3/16/66.3 | SC/SC | 38 | 49 | -7 | 1.1 (Ar) | P1A | 1(B)1 | 77 | 56 |
| 42/50 | 44.3/20/66.3 | SC/SC | 42 | 50 | -7 | 1.1 (Ar) | P1A | 1(B)1 | 77 | 56 |
| 46/50 | 88.2/20/44.2 | SC/SC | 46 | 50 | -6 | 1.1 (Ar) | P1A | 1(B)1 | 76 | 53 |
| 46/51 | 88.2/16/66.2 | SC/SC | 46 | 51 | -5 | 1.1 (Ar) | P1A | 1(B)1 | 75 | 53 |
| Triple Glazing * | | | | | | | | | | |
| 48/37 | 6/14/44.1/14/6 | SLA | 48 | 37 | -5 | 0.6 (Ar) | P1A | 1(B)1 | 69 | 48 |
| 45/42 | 44.2/12/4/12/8 | SC | 45 | 42 | -6 | 0.7 (Ar) | P1A | 1(B)1 | 69 | 46 |
| 46/43 | 44.2/12/5/12/8 | SC | 46 | 43 | -7 | 0.7 (Ar) | P1A | 1(B)1 | 69 | 46 |
| 47/43 | 44.1/14/4/14/6 | SLA | 47 | 43 | -7 | 0.6 (Ar) | P1A | 1(B)1 | 70 | 47 |
| 47/44 | 44.1/12/6/12/8 | SLA | 47 | 44 | -7 | 0.7 (Ar) | P1A | 1(B)1 | 69 | 46 |
| 48/46 | 44.1/12/6/12/10 | SLA | 48 | 46 | -7 | 0.7 (Ar) | P1A | 1(B)1 | 69 | 46 |
| 48/47 | 44.1/12/6/12/10 | SLA | 48 | 47 | -7 | 0.5 (Kr) | P1A | 1(B)1 | 69 | 46 |

(PVB) Polyvinyl-Butyral-Interlayer (SLA) Acoustic-PVB-Interlayer (SC) Sound-Control-PVB-Interlayer

(Ar) Argon gas filling (Kr) Krypton gas filling

R_{w,F}-value according to EN ISO 140-3 and 717

* with ClimaGuard® Premium – coating on face 3 (triple glazing: face 2+5)

All performance data are nominal values and are subject to production tolerances.

Disclaimer: The information contained in this publication is a general description of the product LamiGlass® Sound Control and GUARDIAN hereby disclaims all liability arising from any inaccuracy in or omissions from this publication and all the consequences of relying on it. It is the responsibility of the users of this information to ensure that the intended application of LamiGlass® Sound Control is appropriate and complies with all relevant laws, regulations, standards, codes of practices and other requirements.