

Manufacturer : see UNIGLAS shareholder (www.uniglas.net)

Insulating glass units intended to be used in buildings and construction work

 Product: **UNIGLAS®** | **PHON**

| | | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|-------|--|--|--|--|--|
| Product identification | 26/36 | 28/37 | 30/38 | 34/39 | 32/40 | | | | | |
| Pane configuration* in mm | | | | | | | | | | |
| outside | 6 | 8 | 10 | 10 | 10 | | | | | |
| cavity width | 16 | 16 | 16 | 20 | 16 | | | | | |
| inside | :4 | :4 | :4 | :4 | :6 | | | | | |

Specifics

| | | | | | | | | | | |
|---|---------------|---------------|---------------|---------------|---------------|--|--|--|--|--|
| Resistance to fire (EN 13501-2) | npd | npd | npd | npd | npd | | | | | |
| Reaction to fire (EN 13501-1) | A 1 | A 1 | A 1 | A 1 | A 1 | | | | | |
| External fire performance (EN 13501-5) | npd | npd | npd | npd | npd | | | | | |
| Bullet resistance (EN 1063) | npd | npd | npd | npd | npd | | | | | |
| Explosion resistance (EN 13541) | npd | npd | npd | npd | npd | | | | | |
| Burglar resistance (EN 356) | npd | npd | npd | npd | npd | | | | | |
| Pendulum body resistance (EN 12600) | npd | npd | npd | npd | npd | | | | | |
| Resistance against sudden temperature changes and tempertur differentials (EN 12150) | 40 K | 40 K | 40 K | 40 K | 40 K | | | | | |
| Wind, snow, permanent and imposed load resistance (EN 13474) | 6 + 4 mm | 8 + 4 mm | 10 + 4 mm | 10 + 4 mm | 10 + 6 mm | | | | | |
| Direct airborne sound insulation (EN 12758) R _w (-C; -C _{tr}): dB | 36 (-2;-5) | 37 (-2;-5) | 38 (-3;-7) | 39 (-3;-8) | 40 (-1;-5) | | | | | |
| Thermal properties (EN 673) or EN 674: W/m²K | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | | | | | |
| Light Transmission / light reflection (EN 410): % | 80/12 | 79/12 | 79/11 | 79/11 | 78/11 | | | | | |
| Solar energy transmission (EN 410) = g-value: % | 62 | 61 | 59 | 59 | 59 | | | | | |

* : coating position

npd = no performance determined

All specifics are nominal values with production tolerances according to EN standards, german building supervisory approval (Bauregelliste BRL) and used basic glass

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| Product identification | 29/38 GH | 29/38 GH | 33/42 GH | 33/42 GH | 38/45 GH | 40/50 GH | | | | |
|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|--|--|
| Pane configuration* in mm | | | | | | | | | | |
| outside | GH 9 | GH 9 | GH 9 | GH 10 | GH 10 | GH 11 | | | | |
| cavity width | 16 | 16 | 16 | 20 | 18 | 20 | | | | |
| inside | :4 | :6 | :8 | :8 | :10 | :9 GH | | | | |

Specifics

| | | | | | | | | | | |
|---|---------------|---------------|---------------|---------------|---------------|----------------|--|--|--|--|
| Resistance to fire (EN 13501-2) | npd | npd | npd | npd | npd | npd | | | | |
| Reaction to fire (EN 13501-1) | npd | npd | npd | npd | npd | npd | | | | |
| External fire performance (EN 13501-5) | npd | npd | npd | npd | npd | npd | | | | |
| Bullet resistance (EN 1063) | npd | npd | npd | npd | npd | npd | | | | |
| Explosion resistance (EN 13541) | npd | npd | npd | npd | npd | npd | | | | |
| Burglar resistance (EN 356) | npd | npd | npd | npd | npd | npd | | | | |
| Pendulum body resistance (EN 12600) | npd | npd | npd | npd | npd | npd | | | | |
| Resistance against sudden temperature changes and tempertur differentials (EN 12150) | 40 K | 40 K | 40 K | 40 K | 40 K | 40 K | | | | |
| Wind, snow, permanent and imposed load resistance (EN 13474) | 3 x 4 mm | 2x4 + 6 mm | 2x4 + 8 mm | 2x4 + 8 mm | 2x4 + 10mm | 2x5 + 2x4mm | | | | |
| Direct airborne sound insulation (EN 12758) R _w (-C; -C _{tr}): dB | 38 (-1;-5) | 41 (-3;-7) | 42 (-2;-6) | 44 (-2;-7) | 45 (-2;-8) | 50 (-3;-8) | | | | |
| Thermal properties (EN 673) or EN 674: W/m²K | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | | | | |
| Light Transmission / light reflection (EN 410): % | 79/12 | 79/12 | 78/12 | 78/12 | 78/12 | 75/12 | | | | |
| Solar energy transmission (EN 410) = g-value: % | 59 | 58 | 58 | 57 | 57 | 56 | | | | |

* : coating position

npd = no performance determined

All specifics are nominal values with production tolerances according to EN standards, german building supervisory approval (Bauregelliste BRL) and used basic glass

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 Product: **UNIGLAS®** | **PHON**

| Product identification | 29/39 NC P1A | 30/40 NC P1A | 32/41 NC P2A | 30/42 NC P1A | 34/42 NC P2A | 33/43 NC P1A | 34/43 NC P1A | 38/44 NC P1A | 36/44 NC P1A |
|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Pane configuration* in mm | | | | | | | | | |
| outside | NC 9 | NC 9 | NC 10 | NC 8 | NC 10 | NC 9 | NC 8 | NC 8 | NC 8 |
| cavity width | 16 | 16 | 16 | 16 | 18 | 16 | 20 | 24 | 20 |
| inside | :4 | :5 | :6 | :6 | :6 | :8 | :6 | :6 | :8 |

Specifics

| | | | | | | | | | |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Resistance to fire (EN 13501-2) | npd | npd | npd | npd | npd | npd | npd | npd | npd |
| Reaction to fire (EN 13501-1) | npd | npd | npd | npd | npd | npd | npd | npd | npd |
| External fire performance (EN 13501-5) | npd | npd | npd | npd | npd | npd | npd | npd | npd |
| Bullet resistance (EN 1063) | npd | npd | npd | npd | npd | npd | npd | npd | npd |
| Explosion resistance (EN 13541) | npd | npd | npd | npd | npd | npd | npd | npd | npd |
| Burglar resistance (EN 356) | P1A | P1A | P2A | P1A | P2A | P1A | P1A | P1A | npd |
| Pendulum body resistance (EN 12600) | npd | npd | npd | npd | npd | npd | npd | npd | npd |
| Resistance against sudden temperature changes and tempertur differentials (EN 12150) | 40 K | 40 K | 40 K | 40 K | 40 K | 40 K | 40 K | 40 K | 40 K |
| Wind, snow, permanent and imposed load resistance (EN 13474) | 3 x 4 mm | 2x4 + 5 mm | 2x4 + 6 mm | 2x4 + 6 mm | 2x4 + 6 mm | 2x4 + 8 mm | 2x4 + 6 mm | 2x4 + 6 mm | 2x4 + 8 mm |
| Direct airborne sound insulation (EN 12758) R _w (-C; -C _{tr}): dB | 39 (-1;-5) | 40 (-3;-7) | 39 (-2;-6) | 42 (-2;-6) | 39 (-3;-7) | 43 (-3;-7) | 43 (-2;-7) | 44 (-2;-8) | 44 (-3;-7) |
| Thermal properties (EN 673) or EN 674: W/m²K | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,2 | 1,1 |
| Light Transmission / light reflection (EN 410): % | 78/12 | 78/12 | 78/12 | 78/12 | 78/12 | 77/12 | 78/12 | 78/12 | 77/12 |
| Solar energy transmission (EN 410) = g-value: % | 56 | 56 | 55 | 56 | 54 | 55 | 56 | 56 | 56 |

* : coating position

npd = no performance determined

All specifics are nominal values with production tolerances according to EN standards, german building supervisory approval (Bauregelliste BRL) and used basic glass

Manufacturer : see UNIGLAS shareholder (www.uniglas.net)

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| Product identification | 40/45 NC P1A | 34/45 NC P1A | 36/45 NC P2A | 38/46 NC P1A | 38/47 NC P1A | 42/48 NC P1A | 38/49 NC P1A | 42/50 NC P1A | 46/51 NC P1A | 50/52 NC P2A | 59/54 NC P2A | |
|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|
| Pane configuration* in mm | | | | | | | | | | | | |
| outside | NC 8 | NC 8 | NC 10 | NC 8 | NC 12 | NC 12 | NC 9 | NC 9 | NC 17 | NC 15 | NC 19 | |
| cavity width | 24 | 16 | 16 | 20 | 16 | 20 | 18 | 20 | 16 | 24 | 28 | |
| inside | :8 | :10 | :10 | :10 | :8 | :8 | :13 | :13 | :13 | :11 | :12 | |
| | | | | | NC | NC | NC | NC | NC | NC | NC | |

Specifics

| | | | | | | | | | | | | |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| Resistance to fire (EN 13501-2) | npd | npd | npd | npd | npd | npd | npd | npd | npd | npd | npd | |
| Reaction to fire (EN 13501-1) | npd | npd | npd | npd | npd | npd | npd | npd | npd | npd | npd | |
| External fire performance (EN 13501-5) | npd | npd | npd | npd | npd | npd | npd | npd | npd | npd | npd | |
| Bullet resistance (EN 1063) | npd | npd | npd | npd | npd | npd | npd | npd | npd | npd | npd | |
| Explosion resistance (EN 13541) | npd | npd | npd | npd | npd | npd | npd | npd | npd | npd | npd | |
| Burglar resistance (EN 356) | P1A | P1A | P2A | P1A | P1A | P1A | P1A | P1A | P1A | P2A | P2A | |
| Pendulum body resistance (EN 12600) | npd | npd | npd | npd | npd | npd | npd | npd | npd | npd | npd | |
| Resistance against sudden temperature changes and tempertur differentials (EN 12150) | 40 K | 40 K | 40 K | 40 K | 40 K | 40 K | 40 K | 40 K | 40 K | 40 K | 40 K | |
| Wind, snow, permanent and imposed load resistance (EN 13474) | 2x4 + 8 mm | 2x4 + 10mm | 2x4 + 10mm | 2x4 + 10mm | 2x6 + 2x4mm | 2x6 + 2x4mm | 2x4 + 2x6mm | 2x4 + 2x6mm | 2x8 + 2x6mm | 8 + 6 + 4+6mm | 10+ 6 + 2x6mm | |
| Direct airborne sound insulation (EN 12758) R _w (-C; -C _{tr}): dB | 45 (-2;-7) | 45 (-2;-6) | 45 (-3;-7) | 46 (-2;-6) | 47 (-3;-8) | 48 (-2;-8) | 49 (-3;-8) | 50 (-3;-8) | 51 (-1;-5) | 52 (-2;-6) | 54 (-2;-6) | |
| Thermal properties (EN 673) or EN 674: W/m²K | 1,2 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | 1,1 | |
| Light Transmission / light reflection (EN 410): % | 77/12 | 77/11 | 77/12 | 77/12 | 76/11 | 76/11 | 76/11 | 76/12 | 74/11 | 71/10 | 69/10 | |
| Solar energy transmission (EN 410) = g-value: % | 56 | 57 | 54 | 56 | 55 | 55 | 55 | 55 | 51 | 55 | 51 | |

* : coating position

npd = no performance determined

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| | | | | | | | | | |
|---------------------------|-------|-------|-------|-------|-------|--|--|--|--|
| Product identification | 38/36 | 40/37 | 42/39 | 44/41 | 42/39 | | | | |
| Pane configuration* in mm | | | | | | | | | |
| outside | 6: | 8: | 8: | 10: | 8: | | | | |
| cavity width | 12 | 12 | 12 | 12 | 16 | | | | |
| centre | 4 | 4 | 4 | 4 | 5 | | | | |
| cavity width | 12 | 12 | 12 | 12 | 16 | | | | |
| inside | :4 | :4 | :6 | :6 | :6 | | | | |

Specifics

| | | | | | | | | | |
|---|---------------|---------------|----------------|----------------|----------------|--|--|--|--|
| Resistance to fire (EN 13501-2) | npd | npd | npd | npd | npd | | | | |
| Reaction to fire (EN 13501-1) | A 1 | A 1 | A 1 | A 1 | A 1 | | | | |
| External fire performance (EN 13501-5) | npd | npd | npd | npd | npd | | | | |
| Bullet resistance (EN 1063) | npd | npd | npd | npd | npd | | | | |
| Explosion resistance (EN 13541) | npd | npd | npd | npd | npd | | | | |
| Burglar resistance (EN 356) | npd | npd | npd | npd | npd | | | | |
| Pendulum body resistance (EN 12600) | npd | npd | npd | npd | npd | | | | |
| Resistance against sudden temperature changes and tempertur differentials (EN 12150) | 40 K | 40 K | 40 K | 40 K | 40 K | | | | |
| Wind, snow, permanent and imposed load resistance (EN 13474) | 6 + 2x4mm | 8 + 2x4mm | 8 + 4 + 6mm | 10+ 4 + 6mm | 8 + 5 + 6mm | | | | |
| Direct airborne sound insulation (EN 12758) R _w (-C; -C _{tr}): dB | 36 (-2;-6) | 36 (-2;-6) | 36 (-2;-6) | 36 (-2;-6) | 36 (-2;-6) | | | | |
| Thermal properties (EN 673) or EN 674: W/m²K | 0,7 | 0,7 | 0,7 | 0,7 | 0,6 | | | | |
| Light Transmission / light reflection (EN 410): % | 70/15 | 69/15 | 69/15 | 69/15 | 69/15 | | | | |
| Solar energy transmission (EN 410) = g-value: % | 48 | 48 | 48 | 47 | 47 | | | | |

* : coating position

npd = no performance determined

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| Product identification | 42/42 NC P1A | 44/42 NC P1A | 45/43 NC P1A | 47/43 NC P1A | 47/44 NC P1A | 44/45 NC P1A | 44/45 NC P1A | 49/46 NC P2A | |
|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------|--|
| Pane configuration* in mm | | | | | | | | | |
| outside | 6: | NC 9: | NC 9: | NC 8: | NC 8: | 8: | NC 8: | NC 9: | |
| cavity width | 12 | 2 | 12 | 14 | 12 | 12 | 10 | 12 | |
| centre | 4 | 4 | 5 | 4 | 6 | 4 | 6 | 6 | |
| cavity width | 12 | 12 | 12 | 14 | 12 | 12 | 10 | 12 | |
| inside | :8 NC | :8 | :8 | :6 | :8 | :8 NC | :10 | :10 | |

Specifics

| | | | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|--|
| Resistance to fire (EN 13501-2) | npd | npd | npd | npd | npd | npd | npd | npd | |
| Reaction to fire (EN 13501-1) | npd | npd | npd | npd | npd | npd | npd | npd | |
| External fire performance (EN 13501-5) | npd | npd | npd | npd | npd | npd | npd | npd | |
| Bullet resistance (EN 1063) | npd | npd | npd | npd | npd | npd | npd | npd | |
| Explosion resistance (EN 13541) | npd | npd | npd | npd | npd | npd | npd | npd | |
| Burglar resistance (EN 356) | P1A | P1A | P1A | P1A | P1A | P1A | P1A | P2A | |
| Pendulum body resistance (EN 12600) | npd | npd | npd | npd | npd | npd | npd | npd | |
| Resistance against sudden temperature changes and tempertur differentials (EN 12150) | 40 K | 40 K | 40 K | 40 K | 40 K | 40 K | 40K | 40K | |
| Wind, snow, permanent and imposed load resistance (EN 13474) | 6 + 4 + 2x4mm | 2 x 4 + 4+8mm | 2 x 4 + 5+8mm | 2 x 4 + 4+6mm | 2 x 4 + 6+8mm | 8 + 4 + 2x4mm | 2 x 4 + 6+10mm | 2 x 4 + 6+10mm | |
| Direct airborne sound insulation (EN 12758) R _w (-C; -C _{tr}): dB | 42 (-1;-5) | 42 (-2;-6) | 43 (-3;-7) | 43 (-1;-7) | 44 (-2;-7) | 45 (-2;-6) | 45 (-2;-6) | 46 (-2;-7) | |
| Thermal properties (EN 673) or EN 674: W/m ² K | 0,7 | 0,7 | 0,7 | 0,6 | 0,7 | 0,7 | 0,8 | 0,7 | |
| Light Transmission / light reflection (EN 410): % | 69/15 | 69/15 | 68/15 | 69/15 | 68/15 | 68/15 | 68/15 | 68/15 | |
| Solar energy transmission (EN 410) = g-value: % | 48 | 46 | 46 | 46 | 46 | 48 | 46 | 45 | |

* : coating position

npd = no performance determined

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| | | | | | | | | | |
|---------------------------|--------------------|--------------------|--|--|--|--|--|--|--|
| Product identification | 45/47 NC P1A | 51/50 NC P1A | | | | | | | |
| Pane configuration* in mm | | | | | | | | | |
| outside | NC 8: | NC 12: | | | | | | | |
| cavity width | 12 | 12 | | | | | | | |
| centre | 4 | 6 | | | | | | | |
| cavity width | 12 | 12 | | | | | | | |
| inside | :8 NC | :8 | | | | | | | |

Specifics

| | | | | | | | | | |
|---|-----------------|-----------------|--|--|--|--|--|--|--|
| Resistance to fire (EN 13501-2) | npd | npd | | | | | | | |
| Reaction to fire (EN 13501-1) | npd | npd | | | | | | | |
| External fire performance (EN 13501-5) | npd | npd | | | | | | | |
| Bullet resistance (EN 1063) | npd | npd | | | | | | | |
| Explosion resistance (EN 13541) | npd | npd | | | | | | | |
| Burglar resistance (EN 356) | P1A | P1A | | | | | | | |
| Pendulum body resistance (EN 12600) | npd | npd | | | | | | | |
| Resistance against sudden temperature changes and tempertur differentials (EN 12150) | 40 K | 40 K | | | | | | | |
| Wind, snow, permanent and imposed load resistance (EN 13474) | 2x4+4+ 2x4mm | 2x6+6+ 2x4mm | | | | | | | |
| Direct airborne sound insulation (EN 12758) R _w (-C; -C _{tr}): dB | 47 (-2;-6) | 50 (-2;-6) | | | | | | | |
| Thermal properties (EN 673) or EN 674: W/m ² K | 0,7 | 0,7 | | | | | | | |
| Light Transmission / light reflection (EN 410): % | 68/15 | 67/14 | | | | | | | |
| Solar energy transmission (EN 410) = g-value: % | 46 | 44 | | | | | | | |

* : coating position

npd = no performance determined

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| | | | | | | | | | | |
|---------------------------|--------------------|--|--|--|--|--|--|--|--|--|
| Product identification | 28/37 A3 P4A | | | | | | | | | |
| Pane configuration* in mm | | | | | | | | | | |
| outside | A3 | | | | | | | | | |
| cavity width | 8 | | | | | | | | | |
| inside | 16 | | | | | | | | | |
| | :4 | | | | | | | | | |

Specifics

| | | | | | | | | | | |
|---|---------------|--|--|--|--|--|--|--|--|--|
| Resistance to fire (EN 13501-2) | npd | | | | | | | | | |
| Reaction to fire (EN 13501-1) | npd | | | | | | | | | |
| External fire performance (EN 13501-5) | npd | | | | | | | | | |
| Bullet resistance (EN 1063) | npd | | | | | | | | | |
| Explosion resistance (EN 13541) | npd | | | | | | | | | |
| Burglar resistance (EN 356) | P4A | | | | | | | | | |
| Pendulum body resistance (EN 12600) | npd | | | | | | | | | |
| Resistance against sudden temperature changes and tempertur differentials (EN 12150) | 40 K | | | | | | | | | |
| Wind, snow, permanent and imposed load resistance (EN 13474) | 2x3 + 4 mm | | | | | | | | | |
| Direct airborne sound insulation (EN 12758) R _w (-C; -C _{tr}): dB | 37 (-2;-6) | | | | | | | | | |
| Thermal properties (EN 673) or EN 674: W/m ² K | 1,1 | | | | | | | | | |
| Light Transmission / light reflection (EN 410): % | 79/12 | | | | | | | | | |
| Solar energy transmission (EN 410) g-value: % | = 58 | | | | | | | | | |

* : coating position

npd = no performance determined

All specifics are nominal values with production tolerances according to EN standards, german building supervisory approval (Bauregelliste BRL) and used basic glass.