# MASTERING VENTILATION

## WINDOW VENTS



RENSON®

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*Our passion lies in creating innovative products and complete solutions that turn every home into a healthy and comfortable place to live. Our commitment to 'creating healthy spaces' is the foundation of everything we do.*
*Paul Renson*

# PRODUCT OVERVIEW

| | Page | Equivalent Area ($mm^2/m$) | Q at 1 Pa (l/s/m) | Q at 1 Pa ($m^3/h/m$) | Q at 2 Pa (l/s/m) | Q at 2 Pa ($m^3/h/m$) | Q at 10 Pa (l/s/m) | Q at 20 Pa (l/s/m) | Free area ($mm^2/m$) | Sound reduction $D_{n,e,w}$ ($C;C_{tr}$) in open position (dB/m) | i-Flux® | | Control | U value ($W/m^2K$) | Watertightness in closed position (Pa) | Watertightness in open position (Pa) | Glass reduction (mm) | Glass thickness (mm) | Finishing | Maximum length (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Overframe windowvents** | | | | | | | | | | | | | | | | | | | | |
| **Invisivent® AIR Light** | **21** | 13479 | 10.6 | 38.1 | 17.2 | 62.0 | 16.4 | 19.2 | 14388.5 | 31 (-1;-2) | Yes | | 5 positions | 2.0 | 900 | 150 - 250 **** | 0 | n/a | natural colour / RAL / dual colour | 6000 |
| **Invisivent® AIR Basic** | **22** | 13429 | 10.6 | 38.0 | 17.2 | 62.0 | 17.6 | 17.3 | 13975.5 | 34 (0;-1) | Yes | | 5-16 positions***** | 1.8 | 900 - 1200 ***** | 150 - 250 **** | 0 | n/a | natural colour / RAL / dual colour | 6000 |
| **Invisivent® AIR High** | **23** | 11364 | 8.9 | 32.2 | 12.1 | 43.4 | 11.9 | 14.3 | 10273 | 40 (0;-2) | Yes | | 5-16 positions***** | 1.8 | 900 - 1200 ***** | 150 - 250 **** | 0 | n/a | natural colour / RAL / dual colour | 6000 |
| **Invisivent® COMFORT Basic** | **25** | 4311 | 3.4 | 12.2 | 6.0 | 21.6 | 18.8 | 24.0 | 3900 | 35 (-1;-2) | Yes | | 5-16 positions***** | 1.8 | 900 - 1200 ***** | 150 - 250 **** | 0 | n/a | natural colour / RAL / dual colour | 6000 |
| **Invisivent® COMFORT High** | **26** | 2936 | 2.3 | 8.3 | 4.7 | 16.8 | 12.4 | 18.2 | 3606 | 39 (0;-2) | Yes | | 5-16 positions***** | 1.8 | 900 - 1200 ***** | 150 - 250 **** | 0 | n/a | natural colour / RAL / dual colour | 6000 |
| **Invisivent® COMFORT Ultra** | **27** | 2356 | 1.9 | 6.7 | 3.3 | 11.8 | 10.0 | 14.4 | 3606 | 42 (0;-2) | Yes | | 5-16 positions***** | 1.7 | 900 - 1200 ***** | 150 - 250 **** | 0 | n/a | natural colour / RAL / dual colour | 6000 |
| **Invisivent® COMFORT Extreme** | **28** | 213 | 0,2 | 0,6 | 0,8 | 2,9 | 4,4 | 6,2 | 3606 | 48 (0;-2) | Yes | | 5-16 positions***** | 1.7 | 900 - 1200 ***** | 250 | 0 | n/a | natural colour / RAL / dual colour | 6000 |
| **Flap ventilators glazed-in/at transom** | | | | | | | | | | | | | | | | | | | | |
| **TC60** | **34** | 15652 | 12,3 | 44,3 | 17,4 | 62,6 | 38,9 | 55,0 | 12314 | 28 (0;0) | No | | Infinitly adjustable | 3.3 | 650 | - | 60 | 20/24/28 | natural colour / RAL / dual colour | 2000 |
| **AR60** | **36** | 10427 | 8,2 | 29,5 | 11,8 | 42,3 | 19,7 | 23,9 | 14900 | 27 (0;0) | Yes | | 5 positions | 4.5 | 650 | 100 | 60 | 20/24/28 | natural colour / RAL / dual colour | 3500 |
| **AR90** | **38** | 14252 | 11,2 | 40,3 | 15,6 | 56,2 | 11,4 | 9,1 | 11070 | 30 (-1;-2) | No | | 5 positions | 3.9 | 650 | 100 | 90 | 20/24/28 | natural colour / RAL / dual colour | 2500 (2000 mm with motor control) |
| **THM90$^{EVO}$** | **40** | 11841 | 9,3 | 33,5 | 13,9 | 50,0 | 13,5 | 15,1 | 11200 | 26 (0;0) | No | | 5 positions | 3.8 | 650 | 100 | 90 | 20/24/28/33* | natural colour / RAL / dual colour | 2500 (2000 mm with motor control) |
| **Variavent Small** | **42** | 12725 | 10 | 36 | 14,2 | - | 12,7 | 13,6 | 9723 | 25 (-1;-1) | Yes | | Infinitly adjustable | 2.8 | 650 | 50 | 80 | 20/24/28/32/36/40/44* | natural colour / RAL / dual colour | 3000 |
| **Variavent Medium** | **42** | 19088 | 15 | 54 | 21,4 | - | 19,1 | 20,4 | 14222 | 25 (-1;-1) | Yes | | Infinitly adjustable | 2.8 | 650 | 50 | 80 | 20/24/28/32/36/40/44* | natural colour / RAL / dual colour | 3000 |
| **Variavent Large** | **42** | 22905 | 18 | 64,8 | 19,1 | - | 22,9 | 24,4 | 17714 | 25 (-1;-1) | Yes | | Infinitly adjustable | 2.8 | 650 | 50 | 80 | 20/24/28/32/36/40/44* | natural colour / RAL / dual colour | 3000 |
| **Variavent XLarge** | **42** | 26595 | 20,9 | 75,2 | 20,4 | - | 25,4 | 27,1 | 22380 | 25 (-1;-1) | Yes | | Infinitly adjustable | 2.8 | 650 | 50 | 80 | 20/24/28/32/36/40/44* | natural colour / RAL / dual colour | 3000 |
| **Sonovent® XSmall 10** | **44** | 18416 | 14,5 | 52,1 | 20,4 | 74,5 | 19,1 | 23,6 | 10000 | 36 (-1;-1) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® XSmall 15** | **44** | 30693 | 24,1 | 86,8 | 34,1 | 122,7 | 30,4 | 29,4 | 11000 | 31 (0;0) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® XSmall 20** | **44** | 32995 | 25,9 | 93,3 | 36,9 | 132,8 | 29,5 | 30,1 | 18900 | 32 (-1;-1) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® XSmall 25** | **44** | 35041 | 27,5 | 99,1 | 39,2 | 141,1 | 29,9 | 28,0 | 22300 | 31 (-1;-1) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® Small 10** | **44** | 18324 | 14,4 | 51,8 | 20,6 | 74,2 | 19,1 | 23,6 | 10000 | 41 (-1;-2) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® Small 15** | **44** | 30540 | 25,8 | 86,4 | 33,9 | 122,0 | 30,4 | 29,4 | 11000 | 36 (0;-1) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® Small 20** | **44** | 32831 | 27,4 | 92,9 | 36,7 | 132,1 | 29,5 | 30,1 | 18900 | 35 (0;-1) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® Small 25** | **44** | 34867 | 26,6 | 98,6 | 39,0 | 140,4 | 29,9 | 28,0 | 22300 | 34 (0;-2) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® Medium 10** | **44** | 18070 | 14,2 | 51,1 | 20,7 | 74,5 | 18,1 | 14,7 | 10000 | 44 (-1;-4) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® Medium 15** | **44** | 27359 | 21,5 | 77,4 | 30,8 | 110,9 | 26,9 | 21,9 | 11000 | 41 (0;-3) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® Medium 20** | **44** | 34258 | 27,0 | 97,2 | 38,2 | 137,5 | 33,3 | 27,2 | 18900 | 39 (-1;-3) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® Medium 25** | **44** | 35121 | 27,6 | 99,4 | 39,4 | 141,8 | 32,8 | 27,5 | 22300 | 37 (0;-3) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® Large 10** | **44** | 16670 | 13,1 | 47,2 | 18,8 | 67,7 | 16,4 | 13,4 | 10000 | 46 (-1;-5) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® Large 15** | **44** | 26341 | 20,7 | 74,5 | 29,5 | 106,2 | 25,7 | 32,0 | 11000 | 45 (-1;-4) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® Large 20** | **44** | 33085 | 26,0 | 93,6 | 37,0 | 133,2 | 32,3 | 26,4 | 18900 | 41 (-1;-3) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® Large 25** | **44** | 34485 | 27,1 | 97,6 | 38,6 | 139,0 | 29,6 | 25,8 | 22300 | 40 (-1;-4) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® XLarge 10** | **44** | 14888 | 11,7 | 42,1 | 16,8 | 60,5 | 14,7 | 12,0 | 10000 | 48 (-1;-3) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® XLarge 15** | **44** | 22269 | 17,5 | 63,0 | 24,7 | 88,9 | 21,5 | 17,6 | 11000 | 47 (-1;-5) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® XLarge 20** | **44** | 32067 | 25,2 | 90,7 | 35,7 | 128,5 | 31,1 | 25,4 | 18900 | 43 (-1;-4) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® XLarge 25** | **44** | 33721 | 26,5 | 95,4 | 37,8 | 136,1 | 33,0 | 26,9 | 22300 | 41 (-1;-4) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20/24/28/32/36/40/44** | RAL / dual colour | 2000/2500*** |
| **Sonovent® XXLarge 10** | **44** | 13995 | 11,0 | 39,6 | 15,8 | 56,9 | 13,8 | 11,3 | 10000 | 53 (-2;-5) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20 to 56 mm | RAL / dual colour | 2000/2500*** |
| **Sonovent® XXLarge 15** | **44** | 20933 | 16,5 | 59,2 | 23,2 | 83,6 | 20,2 | 16,5 | 11000 | 48 (-2;-7) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20 to 56 mm | RAL / dual colour | 2000/2500*** |
| **Sonovent® XXLarge 20** | **44** | 30143 | 23,7 | 85,3 | 33,6 | 120,8 | 29,2 | 23,9 | 18900 | 45 (-2;-6) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20 to 56 mm | RAL / dual colour | 2000/2500*** |
| **Sonovent® XXLarge 25** | **44** | 31698 | 24,9 | 89,7 | 35,5 | 127,9 | 31,0 | 25,3 | 22300 | 44 (-2;-6) | No | | Infinitly adjustable | 2.8 | 1200 | - | 130/135 | 20 to 56 mm | RAL / dual colour | 2000/2500*** |
| **Sonovent® Compact 10** | **48** | 15334 | 12,1 | 43,4 | 16,4 | 58,9 | 17,3 | 17,8 | 9500 | 36 (0;-1) | No | | Infinitly adjustable | 3.45 | 650 | 150 | 78 | 20/24/28/32/36 | RAL / dual colour | 2000/2500*** |
| **Sonovent® Compact 13** | **48** | 19278 | 15,2 | 54,5 | 18,8 | 67,7 | 18,8 | 18,7 | 12500 | 35 (0;-1) | No | | Infinitly adjustable | 3.45 | 650 | 150 | 78 | 20/24/28/32/36 | RAL / dual colour | 2000/2500*** |
| **Sonovent® Compact 15** | **48** | 24687 | 19,4 | 69,8 | 19,9 | 71,5 | 18,6 | 19,1 | 15000 | 33 (0;-1) | No | | Infinitly adjustable | 3.45 | 650 | 150 | 78 | 20/24/28/32/36 | RAL / dual colour | 2000/2500*** |
| **Window vents for roller shutter boxes** | | | | | | | | | | | | | | | | | | | | |
| **Transivent®** | **52** | 13748 | 10,8 | 38,9 | 15,2 | 54,6 | 20,1 | 19,9 | 16368 | 28 (-1;-2) | Yes | | 5 positions | 3.0 | 650 | 150 | n/a | n/a | natural colour / RAL | 2200 (1500 mm with cord control) |
| **Sliding vents** | | | | | | | | | | | | | | | | | | | | |
| **THL100** | **56** | 16759 | 13,2 | 47,4 | 18,7 | 67,2 | 41,6 | 58,9 | 16200 | 22 (0;0) | No | | Infinitly adjustable | 3.9 | 400 | n/a | 129 | 15*/20/24/28 | natural colour / RAL / dual colour | 3500 |
| **THL100V** | **56** | 12770 | 10,0 | 36,1 | 14,2 | 51,3 | 32,1 | 45,5 | 27950 | 22 (0;0) | No | | Infinitly adjustable | 3.9 | n/a | n/a | 129 | 15*/20/24/28 | natural colour / RAL / dual colour | 3500 |
| **T100** | **58** | 17326 | 13,6 | 49,0 | 19,5 | 70,3 | 43,8 | 61,9 | 25342 | n/a | No | | Infinitly adjustable | n/a | n/a | n/a | n/a | n/a | natural colour / RAL / dual colour | 3500 |
| **T130** | **58** | 24589 | 19,3 | 69,6 | 27,7 | 99,8 | 62,1 | 87,9 | 38302 | n/a | No | | Infinitly adjustable | n/a | n/a | n/a | n/a | n/a | natural colour / RAL / dual colour | 3500 |
| **T150** | **58** | 27992 | 22,0 | 79,2 | 31,9 | 114,8 | 71,5 | 101,0 | 45592 | n/a | No | | Infinitly adjustable | n/a | n/a | n/a | n/a | n/a | natural colour / RAL / dual colour | 3500 |
| **Slotvents** | | | | | | | | | | | | | | | | | | | | |
| **Sonoslot®, 275 mm** | **62** | 1273 | 1,0 | 3,6 | 1,4 | 5,0 | 3,2 | 3,3 | 1256 | 38 (0;0) | yes | | Infinitly adjustable | 1,4 | n.a. | n.a. | n.a. | n.a. | anodised / Renson standard WHITE, 9005, 1247 | 275 |
| **Sonoslot®, 375 mm** | **62** | 1607 | 1,3 | 4,5 | 1,7 | 6,2 | 4,0 | 4,2 | 1885 | 37 (0;0) | yes | | Infinitly adjustable | 1,4 | n.a. | n.a. | n.a. | n.a. | anodised / Renson standard WHITE, 9005, 1247 | 375 |
| **Sonoslot®, 475 mm** | **62** | 2121 | 1,7 | 6,0 | 2,3 | 8,3 | 5,3 | 5,6 | 2513 | 36 (0;0) | yes | | Infinitly adjustable | 1,4 | n.a. | n.a. | n.a. | n.a. | anodised / Renson standard WHITE, 9005, 1247 | 475 |
| **Sonoslot®, 700 mm** | **62** | 3181 | 2,5 | 9,0 | 3,4 | 12,4 | 8,0 | 8,4 | 3769 | 34 (0;0) | yes | | Infinitly adjustable | 1,4 | n.a. | n.a. | n.a. | n.a. | anodised / Renson standard WHITE, 9005, 1247 | 700 |
| **Sonoslot® Max without damping** | **64** | 2298 | 1,8 | 6,5 | 2,7 | 9,7 | 6,8 | 6,9 | 1871 | 38 (-1;-2) | no | | no | - | n.a. | n.a. | n.a. | n.a. | Renson standard WHITE / RAL 1247 | 700 |
| **Sonoslot® Max with damping** | **64** | 1555 | 1,2 | 4,4 | 1,9 | 6,8 | 5,1 | 7,6 | 1871 | 40 (-1;-2) | no | | no | - | n.a. | n.a. | n.a. | n.a. | Renson standard WHITE / RAL 1247 | 700 |
| **Pyramid 2500** | **66** | 2723 | 2,1 | 7,6 | 3,1 | 10,85 | 7,0 | 10,1 | 2200 | 36 (0;0) | no | | no | - | n.a. | n.a. | n.a. | n.a. | anodised / Renson standard WHITE, 9005, 7016 | n.a. |
| **Pyramid 5000** | **66** | 5229 | 4,2 | 15,1 | 6,0 | 21,6 | 13,6 | 19,4 | 4590 | 33 (-1;0) | no | | no | - | n.a. | n.a. | n.a. | n.a. | anodised / Renson standard WHITE, 9005, 7016 | n.a. |
| **Pyracoust 2500 + 1 acoustic module** | **68** | 2749 | 2,2 | 7,9 | 3,2 | 11,5 | 7,6 | 11,1 | 2496 | 42 (-1;-2) | no | | no | - | n.a. | n.a. | n.a. | n.a. | anodised / Renson standard WHITE, 9005, 7016 | n.a. |
| **Pyracoust 2500 + 2 acoustic modules** | **68** | 2736 | 2,2 | 7,9 | 3,1 | 11,2 | 7,5 | 11,0 | 2496 | 45 (-2;-3) | no | | no | - | n.a. | n.a. | n.a. | n.a. | anodised / Renson standard WHITE, 9005, 7016 | n.a. |
| **Pyracoust 5000 + 1 acoustic module** | **68** | 5714 | 4,5 | 16,2 | 6,4 | 23,0 | 14,4 | 20,5 | 4472 | 39 (-1;-2) | no | | no | - | n.a. | n.a. | n.a. | n.a. | anodised / Renson standard WHITE, 9005, 7016 | n.a. |
| **Pyracoust 5000 + 2 acoustic modules** | **68** | 5596 | 4,3 | 15,5 | 6,2 | 22,3 | 14,5 | 20,8 | 4472 | 42 (-2;-4) | no | | no | - | n.a. | n.a. | n.a. | n.a. | anodised / Renson standard WHITE, 9005, 7016 | n.a. |
| **Ventilation and sun protection on the window profile** | | | | | | | | | | | | | | | | | | | | |
| **Fixvent® Mono AK$^{EVO}$** | **74** | See technical values on page **74** | | | | | | | | | | | See technical values on page **74** | | | | | | | |
| **Fixvent® Mono UT$^{EVO}$** | **78** | See technical values on page **78** | | | | | | | | | | | See technical values on page **78** | | | | | | | |

*** not for placement at transom position - ** other glass thickness sizes upon request - *** 2000 mm when installed on the glass / 2500 mm when installed at transom position**
****** with design cap - ***** high-rise version - n/a: not applicable**

# WHY VENTILATE?

## 1 BREATHING HEALTHY AIR

The air quality in a home is generally significantly worse than the air quality outside. Cooking, showering, heating, cleaning and even breathing and sweating are all factors that pollute the air. With adequate ventilation, you can rest assured you are breathing healthy air inside.

## 2 GOOD FOR OCCUPANTS AND THE HOME

Good indoor air quality matters as much to the building itself as it does to the health of its occupants. Ventilation prevents damp from forming, offering protection against the associated risks such as mould and damage to the interior.

## 3 SAVE ENERGY

Did you know that humid and polluted air heats up more slowly? Adequate ventilation keeps the air in your home clean and dry. As a direct consequence, this results in lower heating costs and lower energy bills.



### ! TO MEASURE IS TO KNOW

In a properly insulated home without ventilation, we constantly breathe in polluted air. Unfortunately, we lack the ability to see or smell whether the air we breathe is dirty or not. For that exact reason, a reliable monitor is an indispensable tool when it comes to taking action in good time when the air quality is deteriorating. Renson Sense is so much more than a traditional $CO_2$ monitor. Our device also monitors the humidity level, volatile organic compounds (VOCs) and other parameters such as odours, noise, temperature and light. **More information: www.renson.net**

# REGULATIONS

## Brief guide to UK building regulations, part F - ventilation

### Domestic buildings

#### NEW BUILDINGS (WITH ANY DESIGN AIR PERMEABILITY)

Previously ventilation area was shown in free area mm2 whereas now it is calculated and shown as Equivalent Area (EA) per mm2 as in the table shown below based upon 2 occupants in the main bedroom and a single occupant in all other bedrooms.

| Total floor area ($m^2$) | Number of bedrooms | | | | |
|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 |
| **< 50** | 35000 | 40000 | 50000 | 60000 | 65000 |
| **51 – 60** | 35000 | 40000 | 50000 | 60000 | 65000 |
| **61 – 70** | 45000 | 45000 | 50000 | 60000 | 65000 |
| **71 – 80** | 50000 | 50000 | 50000 | 60000 | 65000 |
| **81 – 90** | 55000 | 60000 | 60000 | 60000 | 65000 |
| **91 – 100** | 65000 | 65000 | 65000 | 65000 | 65000 |
| **> 100** | add 7000 $mm^2$ for every additional 10 $m^2$ floor area | | | | |

The minimum equivalent area (EA) for habitable rooms is 5000 $mm^2$ EA and for any wet room 2500 $mm^2$ EA.

Please contact Renson UK for more information regarding basements, habitable rooms with non opening windows, modular or portable buildings and acoustic needs for buildings.

#### EXISTING BUILDINGS

Where renovations are being carried out to an existing building then the background ventilation should not be smaller than originally provided, but it must be at least 5000 $mm^2$ EA for habitable rooms and 2500 $mm^2$ EA for wet rooms.

Please contact Renson UK for more information regarding connecting to a conservatory, addition of a wet room or addition of a habitable room.

### Non-domestic buildings

#### NEW OFFICES

10 l/s (litres per second) per person of air supply is needed

#### EXISTING OFFICES, HOTELS, ...

| | | |
|---|---|---|
| Floor area under 10 $m^2$ | - | 2500 $mm^2$ EA |
| Floor area over 10 $m^2$ | - | 250 $mm^2/m^2$ EA |
| Kitchens | - | 2500 $mm^2$ EA |
| Bathrooms/showers/WC | - | 2500 $mm^2$ EA per bath, shower or toilet |

#### NEW SCHOOLS (ACCORDING TO BUILDING BULLETIN 101)

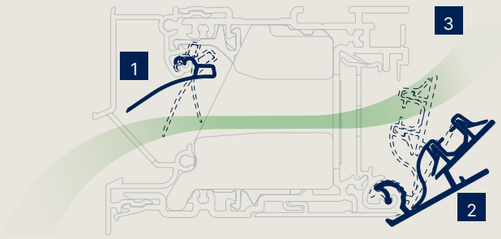
8 l/s (litres per second) per person of air supply is needed.



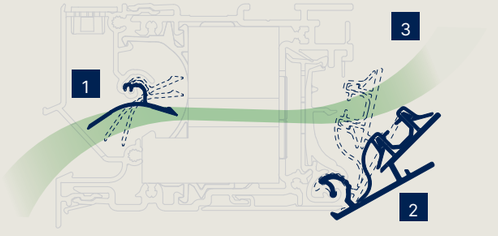
# I-FLUX® TECHNOLOGY

## Maximal comfort, minimum energy loss!

**OUR I-FLUX TECHNOLOGY IS BASED ON THE FOLLOWING PRINCIPLES:**



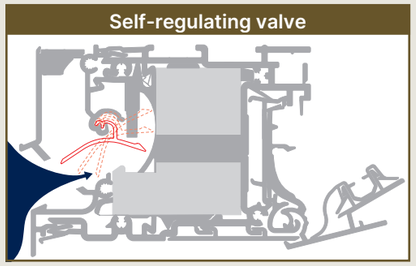

Invisivent® AIR

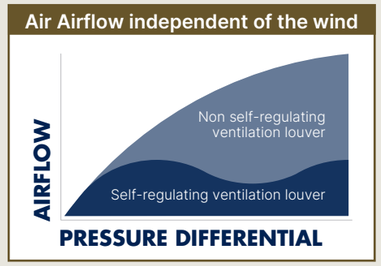



Invisivent® COMFORT

### 1. Air Airflow independent of the wind

The use of a self-regulating valve that reacts to changes in pressure makes it possible to maintain a constant air Airflow even in gusts of wind, all while keeping out draughts. Self-regulation is expressed in different ratings, from P0 (no self-regulation) to P4 (excellent self-regulation).




### 2. Air Airflow can be controlled using manually adjustable inner valve

The user can set the desired Airflow depending on how many occupants are in the room, for example.

### 3. Upward air flow for optimum comfort

The shape of the inner valve conducts the fresh air upwards, leading to optimal air distribution throughout the room and guaranteeing maximal comfort.

# SUPPORT FROM A TO Z



**We are here for you (and your team)! In need of training? Technical assistance or an intervention at the construction site?**

SUPPORT



*One phone call to the HOTLINE was enough to get my team back on track at the construction site. We promptly got the technical information we were looking for. Perfect service that saved a lot of time!*

## RENSON.NET

Customers will find lots of information about our products on our website. Moreover, on our Professionals portal, you will find all technical information such as manuals, technical data sheets, ecolabel, brochures for your customers, specification sheets, and more. If you have trouble finding what you're looking for right away, please get in touch with our HOTLINE.




## Hotline

Not sure which solution is the best answer? Struggling with a specific technical issue at the construction site? Contact one of our distribution partners or call a Renson helpdesk representative via the **HOTLINE** on +32 (0)56 30 30 30. If necessary, we will even send a Renson technician to your site. This will save you lots of time and give you a lot less to worry about!

## Renson Academy

Perfectly functioning sun protection starts with correct installation. Good product knowledge and technical skills will save you a lot of time. You (and your team) are welcome to join us for:

- An update of your product knowledge
- A refresher of your skills
- Learning new techniques

## RENSON & ORGADATA

The Renson Invisivent database - including all options - is available in Orgadata for both Logikal and ReynaPro users. Thus, as a window designer, you can now easily add these window vents to all possible digital models. In addition to a clear visualisation, you can immediately see the correct dimensions in function of the deduction dimension and a U-value calculation.

ORGADATA

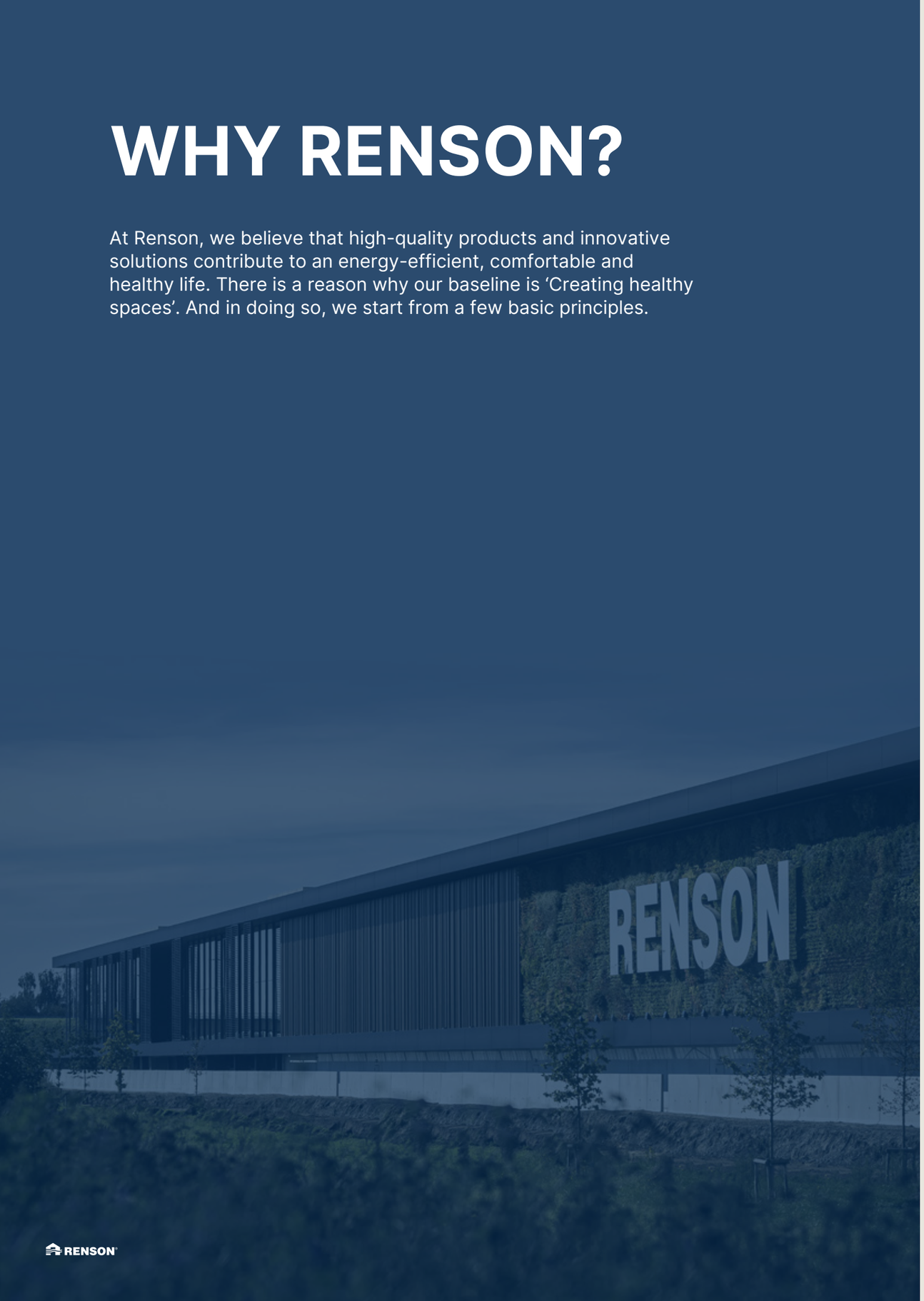
## Renson Academy On Tour

Limited in time? Distance too great? Our Academy is happy to come to you. In need of a tailored training course? Not a problem. Putting theory straight into practice will help you move forward! We would love to hear how we can support you. Register at:
renson.net > i'm a professional > Training



# WHY RENSON?

At Renson, we believe that high-quality products and innovative solutions contribute to an energy-efficient, comfortable and healthy life. There is a reason why our baseline is ‘Creating healthy spaces’. And in doing so, we start from a few basic principles.




### MINIMALIST DESIGN

We aim high when it comes to design. Renson solutions discretely fit into any project. The detailed finishing and seamless integration contribute to this fact.

### THE POWER OF INNOVATION

Our hunger for innovation is what drives progress. We achieve impressive results together by developing and applying innovative technologies.

### ENDLESS CUSTOMISATION OPTIONS

For your home or workspace, rustic or contemporary. Configuring a solution tailored to each customer and building is quick and easy.

### SUSTAINABLE ENTREPRENEURSHIP

We cannot build a healthy living environment without tending to a healthy world. From our choice of materials to our production and logistics, we are building a sustainable business.

### ULTIMATE EASE OF USE AND MAINTENANCE

Thorough engineering is a function of ease of use and minimum maintenance. From configuration and ordering to quick and trouble-free installation, with our digital platform, RIO, as its beating heart.



# OVERVIEW PRODUCTS


**Overframe window vents**
- Invisivent® AIR 20
- Invisivent® COMFORT 24
- Invisivent® options 30

**Flap ventilators glazed-in/at transom**

Thermally interrupted
- TC60 34
- AR60 36
- AR90 38
- THM90 40
- Variavent 42

Thermally interrupted and soundproofed
- Sonovent® 44
- Sonovent® Compact 48

**Roller shutter flap ventilator**
- Transivent® 52

**Sliding vents**
- THL100 - THL100V 56
- T100 - T130 - T150 58

**Slotvents**
- Sonoslot® 62
- Sonoslot® Max 64
- Pyramid 66
- PyrAcoust 68
- Interior slotvents 70
- Exterior slotvents 71

**Combined ventilation and Sun Protection overframe**
- Fixvent® Mono AK 74
- Fixvent® Mono UT 78

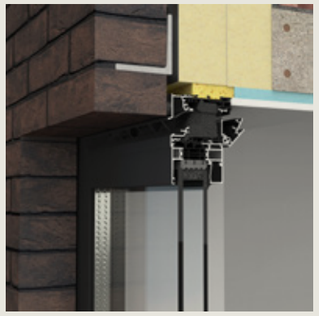
# OVERFRAME WINDOW VENTS

Our Invisivent window vent is an acoustic, thermal, and energy-efficient window vent that can easily be used in any project, be it a newbuild or renovation project.

This product is designed in accordance with the monobloc principle, which means that it can be anchored to the window profile as a single, stable unit. On top of that, Invisivent can always be combined with an optional design cap. This provides additional protection against water and wind load, while also delivering added value aesthetically, as an Invisivent window vent with a design cap can be concealed easily and entirely behind the brickwork (rendering it completely invisible). What's more, Renson offers a “High Rise” solution which is ideal for applications impacted by wind, such as high-rise buildings and apartment blocks on the coast.

## INVISIVENT AIR VS COMFORT

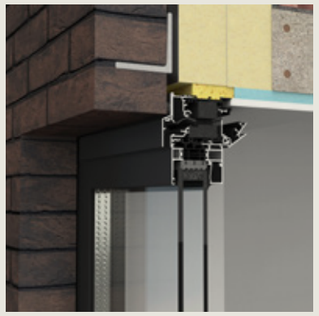
Our Invisivent window vent is available in two versions: Air and Comfort. Invisivent Comfort goes one step beyond Invisivent Air by guaranteeing even higher acoustic damping and even greater thermal and energetic comfort thanks to the integrated, self-regulating non-return valve. The Invisivent Comfort combined with an extraction point in the same room (Healthbox 3.0, SmartZone configuration) ensures optimum indoor air quality. Thus, energy losses and uncontrolled ventilation are avoided at all times.



Invisivent® Air (page 20)

## INSTALLATION ON THE TOP OF THE WINDOW PROFILE

Invisivent window vent can be placed behind the brickwork, on the top of aluminium, wood or UPVC window profiles. As this window vent has no impact on the size of the windowpane, this near-invisible installation method guarantees you'll get the maximum amount of light coming in.



Invisivent® Comfort (page 24)

## PERFECT AIRTIGHT CONNECTION TO WINDOW PROFILE

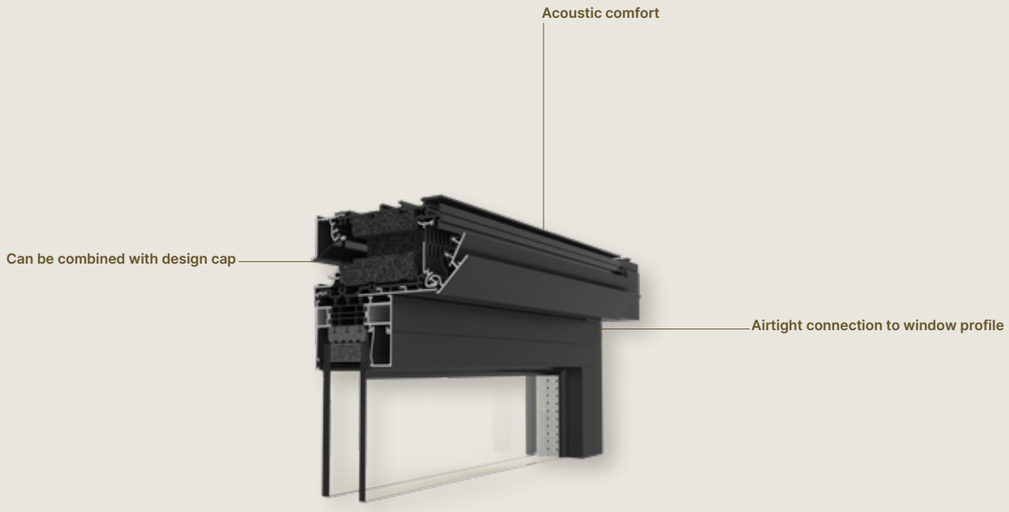
A coextruded rubber seal that runs the entire length of the window vent (including the end caps) provides a perfectly airtight connection between the Invisivent window vent and the window profile.

# INVISIVENT® AIR

ON THE WINDOW PROFILE

## Discreet and energy-efficient window vents for a healthy and comfortable indoor climate

Even in their narrowest versions, our Invisivent AIR window vents are fitted with acoustic damping material as standard. An acoustic leak to the cavity ensures extra impressive acoustic performance.




| Technical properties | Invisivent AIR Light | Invisivent AIR Basic | Invisivent AIR High |
|---|---|---|---|
| I-Flux | | ✓ | |
| With thermal break | | ✓ | |
| Self-regulating | | ✓ | |
| Acoustic comfort (open position) | 31 (-1;-2) dB | 34 (0;-1) dB | 40 (0;-2) dB* |
| Burglar-resistant | | Class 2, suitable for WK2 windows | |
| Insect-proof | | ✓ | |
| Non-residential application | | Possible, see www.renson.net | |

* or higher on request

# INVISIVENT® AIR LIGHT

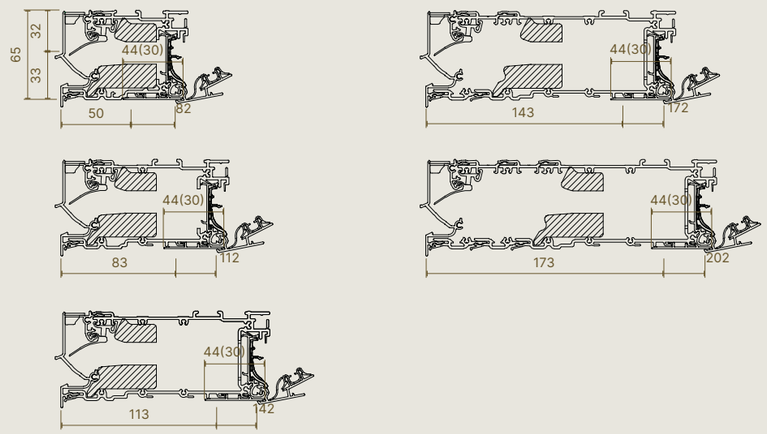
| Technical details | |
|---|---|
| **Airflow** | |
| Equivalent area | 13479 mm²/m |
| Q at 1 Pa | 10.6 l/s/m |
| Q at 1 Pa | 38.1 m³/h/m |
| Q at 2 Pa | 17.2 l/s/m |
| Q at 2 Pa | 62.0 m³/h/m |
| Q at 10 Pa | 16.4 l/s/m |
| Q at 20 Pa | 19.2 l/s/m |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | |
| In open position | 31 (-1;-2) dB |
| In closed position | 51 (-1;-3) dB |
| **Technical details** | |
| Positions | 5 positions |
| Controls | Cord, manual, motor, rod |
| U value | 2.0 W/m²K |
| Airflow at 50 Pa | <15% (in closed position) |
| Watertightness in closed position | Up to 900 Pa |
| Watertightness in open position | Up to 150 Pa - 250 Pa (with design cap) |
| **Dimensions** | |
| Glass reduction | 0 mm |
| Product height | 65 mm |
| Window profile depth | 50 - 202 mm (or deeper upon request) |
| Max. length | 6000 mm |





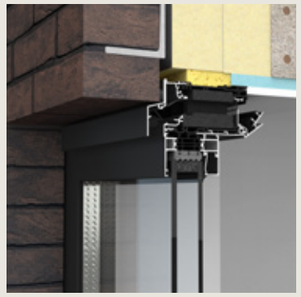
With design cap (optional)

**Invisivent® AIR Light: detailed drawings**



# INVISIVENT® AIR BASIC

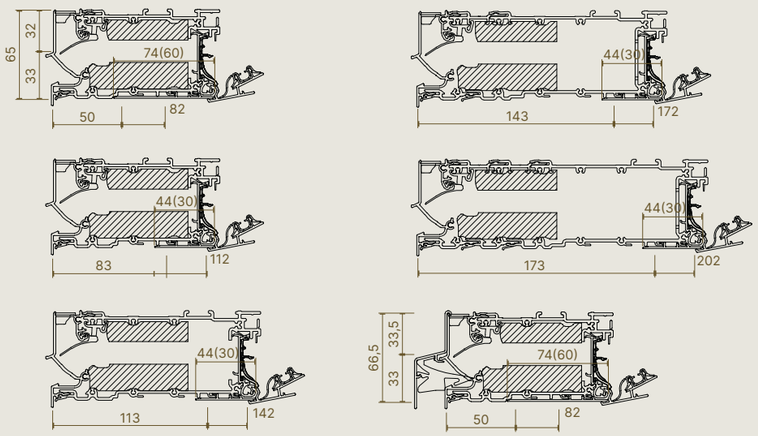




With design cap (optional)

| Technical details | | | | | | |
|---|---|---|---|---|---|---|
| **Airflow** | | | | | | |
| **Equivalent area** | **Q at 1 Pa** | **Q at 1 Pa** | **Q at 2 Pa** | **Q at 2 Pa** | **Q at 10 Pa** | **Q at 20 Pa** |
| **13429 mm²/m** | **10.6 l/s/m** | **38.0 m³/h/m** | **17.2 l/s/m** | **62.0 m³/h/m** | **17.6 l/s/m** | **17.3 l/s/m** |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | | | | | | |
| **In open position** | 34 (0;-1) dB | | | | | |
| **In closed position** | 51 (-1;-3) dB | | | | | |
| **Technical details** | | | | | | |
| **Positions** | 5 positions | | | | | |
| ***High-rise*** | 16 positions | | | | | |
| **Controls** | Cord, manual, motor, rod | | | | | |
| **U value** | 1.8 W/m²K | | | | | |
| **Airflow at 50 Pa** | <15% (in closed position) | | | | | |
| **Watertightness in closed position** | Up to 900 Pa | | | | | |
| ***High-rise*** | Up to 1200 Pa | | | | | |
| **Watertightness in open position** | Up to 150 Pa - 250 Pa (with design cap) | | | | | |
| ***High-rise*** | Up to 250 Pa | | | | | |
| **Dimensions** | | | | | | |
| **Glass reduction** | 0 mm | | | | | |
| **Product height** | 65 mm | | | | | |
| ***High-rise*** | 66.5 mm | | | | | |
| **Window profile depth** | 50 - 202 mm (or deeper upon request) | | | | | |
| **Max. length** | 6000 mm | | | | | |

**Invisivent® AIR Basic: detailed drawings**




AIR Basic with optional high-rise version

# INVISIVENT® AIR HIGH

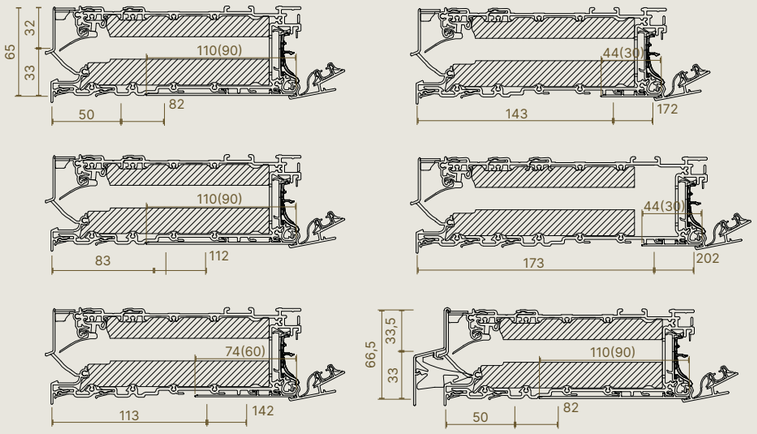
| Technical details | | | | | | |
|---|---|---|---|---|---|---|
| **Airflow** | | | | | | |
| **Equivalent area** | **Q at 1 Pa** | **Q at 1 Pa** | **Q at 2 Pa** | **Q at 2 Pa** | **Q at 10 Pa** | **Q at 20 Pa** |
| **11364 mm²/m** | **8.9 l/s/m** | **32.2 m³/h/m** | **12.1 l/s/m** | **43.4 m³/h/m** | **11.9 l/s/m** | **14.3 l/s/m** |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | | | | | | |
| **In open position** | 40 (0;-2) dB | | | | | |
| **In closed position** | 51 (-1;-3) dB | | | | | |
| **Technical details** | | | | | | |
| **Positions** | 5 positions | | | | | |
| ***High-rise*** | 16 positions | | | | | |
| **Controls** | Cord, manual, motor, rod | | | | | |
| **U value** | 1.8 W/m²K | | | | | |
| **Airflow at 50 Pa** | <15% (in closed position) | | | | | |
| **Watertightness in closed position** | Up to 900 Pa | | | | | |
| ***High-rise*** | Up to 1200 Pa | | | | | |
| **Watertightness in open position** | Up to 150 Pa - 250 Pa (with design cap) | | | | | |
| ***High-rise*** | Up to 250 Pa | | | | | |
| **Dimensions** | | | | | | |
| **Glass reduction** | 0 mm | | | | | |
| **Product height** | 65 mm | | | | | |
| ***High-rise*** | 66.5 mm | | | | | |
| **Window profile depth** | 50 - 202 mm (or deeper upon request) | | | | | |
| **Max. length** | 6000 mm | | | | | |





With design cap (optional)

**Invisivent® AIR High: detailed drawings**




AIR High with optional high-rise version

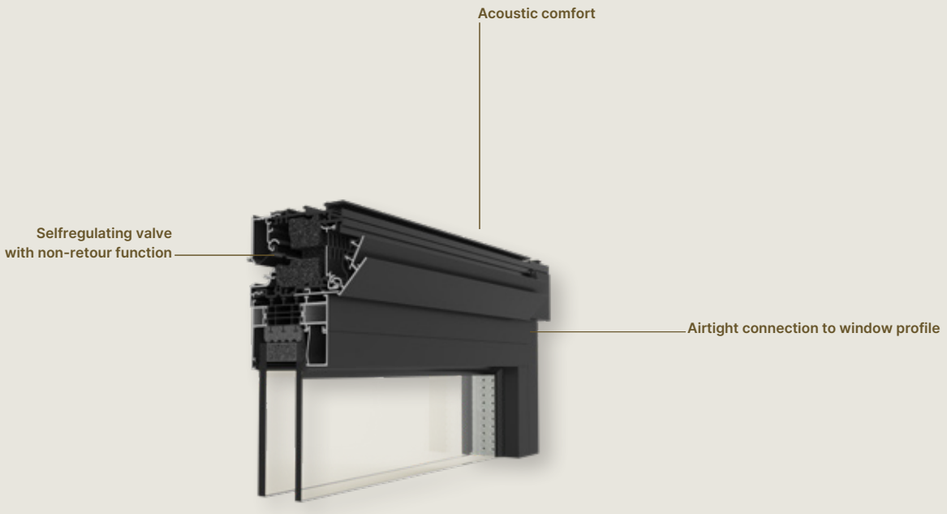
OVERFRAME WINDOWVENTS

# INVISIVENT® COMFORT

ON THE WINDOW PROFILE

## The ultimate comfort in natural ventilation

Even in their narrowest versions, our Invisivent Comfort window vents are fitted with acoustic damping material as standard. An acoustic leak to the cavity ensures extra impressive acoustic performance.




| Technical properties | Invisivent Comfort Basic | Invisivent Comfort High | Invisivent Comfort Ultra |
|---|---|---|---|
| I-Flux | ✓ (self-regulating from 10 Pa and with non-return valve) | | |
| With thermal break | ✓ | | |
| Self-regulating | ✓ | | |
| Acoustic comfort (open position) | 35 (-1;-2) dB | 39 (0;-2) dB | 42 (0;-2) dB |
| Burglar-resistant | Class 2, suitable for WK2 windows | | |
| Insect-proof | ✓ | | |

# INVISIVENT® COMFORT BASIC

| Technical details<br>Airflow | | | | | | |
|---|---|---|---|---|---|---|
| Equivalent area | Q at 1 Pa | Q at 1 Pa | Q at 2 Pa | Q at 2 Pa | Q at 10 Pa | Q at 20 Pa |
| 4311 mm²/m | 3.4 l/s/m | 12.2 m³/h/m | 6.0 l/s/m | 21.6 m³/h/m | 18.8 l/s/m | 24.0 l/s/m |

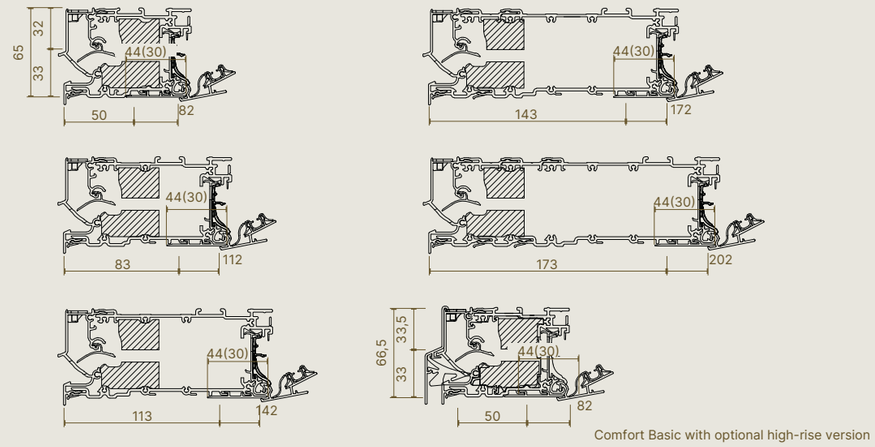
| Sound reduction $D_{n,e,w}$ ($C;C_{tr}$) | |
|---|---|
| In open position | 35 (-1;-2) dB |
| In closed position | 51 (-1;-3) dB |
| **Technical details** | |
| Positions | 5 positions |
| *High-rise* | 16 positions |
| Controls | Cord, manual, motor, rod |
| U value | 1.8 W/m²K |
| Airflow at 50 Pa | <15% (in closed position) |
| Watertightness in closed position | Up to 900 Pa |
| *High-rise* | Up to 1200 Pa |
| Watertightness in open position | Up to 150 Pa - 250 Pa (with design cap) |
| *High-rise* | Up to 250 Pa |
| **Dimensions** | |
| Glass reduction | 0 mm |
| Product height | 65 mm |
| *High-rise* | 66.5 mm |
| Window profile depth | 50 - 202 mm (or deeper upon request) |
| Max. length | 6000 mm |





With design cap (optional)

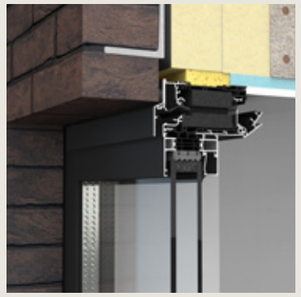
**Invisivent® Comfort Basic: detailed drawings**




Comfort Basic with optional high-rise version

# INVISIVENT® COMFORT HIGH





With design cap (optional)

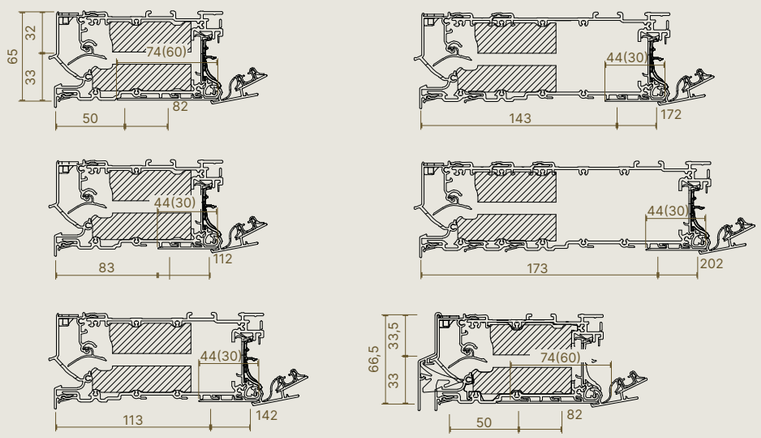
| Technical details<br>Airflow | | | | | | |
|---|---|---|---|---|---|---|
| Equivalent area | Q at 1 Pa | Q at 1 Pa | Q at 2 Pa | Q at 2 Pa | Q at 10 Pa | Q at 20 Pa |
| 2936 mm²/m | 2.3 l/s/m | 8.3 m³/h/m | 4.7 l/s/m | 16.8 m³/h/m | 12.4 l/s/m | 18.2 l/s/m |

| Sound reduction $D_{n,e,w}$ ($C;C_{tr}$) | |
|---|---|
| In open position | 39 (0;-2) dB |
| In closed position | 51 (-1;-3) dB |

| Technical details | |
|---|---|
| Positions | 5 positions |
| *High-rise* | 16 positions |
| Controls | Cord, manual, motor, rod |
| U value | 1.8 W/m²K |
| Airflow at 50 Pa | <15% (in closed position) |
| Watertightness in closed position | Up to 900 Pa |
| *High-rise* | Up to 1200 Pa |
| Watertightness in open position | Up to 150 Pa - 250 Pa (with design cap) |
| *High-rise* | Up to 250 Pa |

| Dimensions | |
|---|---|
| Glass reduction | 0 mm |
| Product height | 65 mm |
| *High-rise* | 66.5 mm |
| Window profile depth | 50 - 202 mm (or deeper upon request) |
| Max. length | 6000 mm |

**Invisivent® Comfort High: detailed drawings**




Comfort High with optional high-rise version

# INVISIVENT® COMFORT ULTRA

| Technical details<br>Airflow | | | | | | |
|---|---|---|---|---|---|---|
| Equivalent area | Q at 1 Pa | Q at 1 Pa | Q at 2 Pa | Q at 2 Pa | Q at 10 Pa | Q at 20 Pa |
| 2356 mm²/m | 1.9 l/s/m | 6.7 m³/h/m | 3.3 l/s/m | 11.8 m³/h/m | 10.0 l/s/m | 14.4 l/s/m |

| Sound reduction $D_{n,e,w}$ ($C;C_{tr}$) | |
|---|---|
| In open position | 42 (0;-2) dB |
| In closed position | 51 (-1;-3) dB |

| Technical details | |
|---|---|
| Positions | 5 positions |
| *High-rise* | 16 positions |
| Controls | Cord, manual, motor, rod |
| U value | 1.7 W/m²K |
| Airflow at 50 Pa | <15% (in closed position) |
| Watertightness in closed position | Up to 900 Pa |
| *High-rise* | Up to 1200 Pa |
| Watertightness in open position | Up to 150 Pa - 250 Pa (with design cap) |
| *High-rise* | Up to 250 Pa |

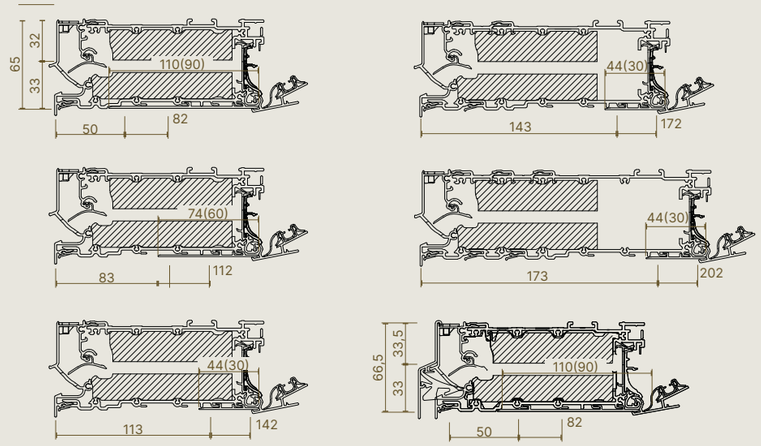
| Dimensions | |
|---|---|
| Glass reduction | 0 mm |
| Product height | 65 mm |
| *High-rise* | 66.5 mm |
| Window profile depth | 50 - 202 mm (or deeper upon request) |
| Max. length | 6000 mm |





With design cap (optional)

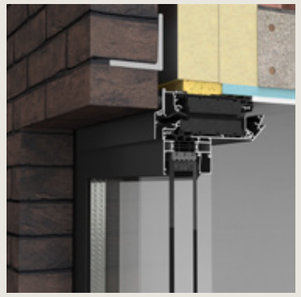
**Invisivent® Comfort Ultra: detailed drawings**




Comfort Ultra with optional high-rise version

# INVISIVENT® COMFORT EXTREME



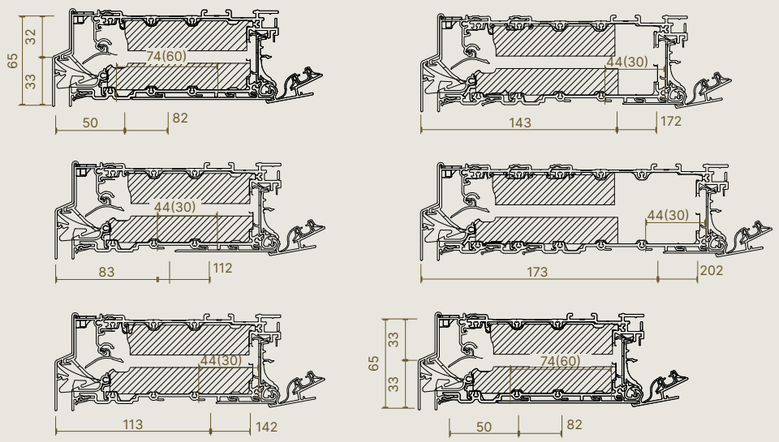


With design cap

| Technical details | | | | | | |
|---|---|---|---|---|---|---|
| **Airflow** | | | | | | |
| Equivalent area | Q at 1 Pa | Q at 1 Pa | Q at 2 Pa | Q at 2 Pa | Q at 10 Pa | Q at 20 Pa |
| 213 $mm^2/m$ | 0,2 l/s/m | 0,6 $m^3/h/m$ | 0,8 l/s/m | 2,9 $m^3/h/m$ | 4,4 l/s/m | 6,2 l/s/m |

| | |
|---|---|
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | |
| In open position | 48 (0;-2) dB |
| In closed position | 62 (-1;-4) dB |
| **Technical details** | |
| Positions | 5 positions |
| *High-rise* | 16 positions |
| Controls | Cord, manual, motor, rod |
| U value | 1.7 $W/m^2K$ |
| Airflow at 50 Pa | <15% (in closed position) |
| Watertightness in closed position | Up to 900 Pa |
| *High-rise* | Up to 1200 Pa |
| Watertightness in open position | Up to 250 Pa |
| *High-rise* | Up to 250 Pa |
| **Dimensions** | |
| Glass reduction | 0 mm |
| Product height | 66.5 mm |
| *High-rise* | 66.5 mm |
| Window profile depth | 50 - 202 mm (or deeper upon request) |
| Max. length | 6000 mm |

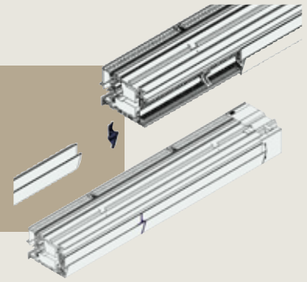
**Invisivent® Comfort Extreme: detailed drawings**




OVERFRAME WINDOWVENTS

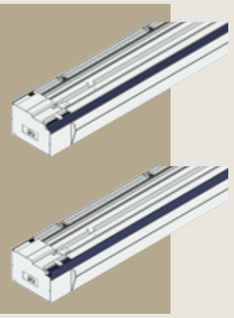
# INVISIVENT® OPTIONS

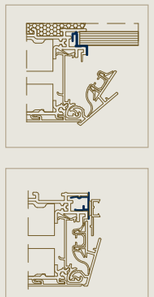
**SPLIT INNER VALVE**
For ease of use or if requested by a customer, the inner valve can be split for lengths in excess of 3000 mm. If so, a special mid piece (3 mm thick) is placed between the two valves to guarantee a neat finish.



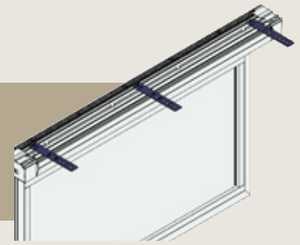
**FINISHING PROFILE**
The Invisivent AIR/COMFORT is designed to provide a perfect finish. There is a cut-out at the top of the vent that takes plasterboard or MDF panels up to 10 mm thick, and which allows the plasterer to integrate the vent discreetly into the plastered surface.

The optional aluminium finishing profile should be used with traditional wet plastering. The profile should also be used for a perfect finish when installing a roller shutter box, for example, above the Invisivent AIR/COMFORT. This profile is available in the same finish as the inside of the Invisivent AIR/COMFORT.

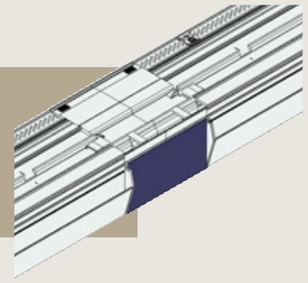




**INSTALLATION USING WALL BRACKETS**
The Invisivent AIR/COMFORT has a dowel slot so it can be attached quickly and easily to the unfinished structure by using wall brackets

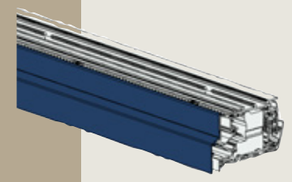


**JOINING MULTIPLE INVISIVENT AIR/COMFORT**
Invisivent AIR/COMFORT is available in lengths up to six metres. Even so, it is possible to place multiple Invisivent AIR/COMFORT next to each other, neatly finished with a coupling plate between the different window vents.

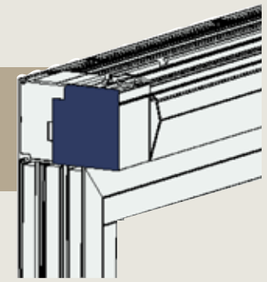


**DESIGN CAP**
If Invisivent AIR/COMFORT is to be exposed to harsh weather conditions (rain, sand, high wind loads,..),, you can choose to have a design cap fitted to the product. This cover guarantees optimal comfort, even in extreme weather conditions.

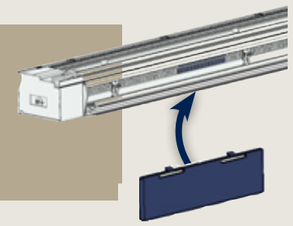
Each high rise version is equipped standard with a design cap. Additional clips guarantee that the inner valve operates with the perfect closing force. Each high rise model contains acoustic material that dampens external noises to the greatest extent possible, resulting in increased user comfort.
The high rise version is available in 6 different sound-damping levels



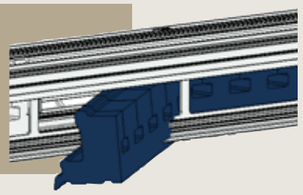
**SIDE MOUNTING PLATE**
The side plate provides an aesthetic finish to the Invisivent when the side of the Invisivent is visible.



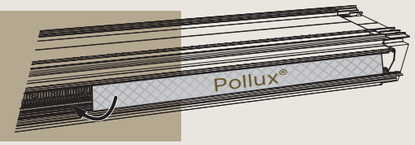
**AIRFLOW LIMITERS**
Airflow limiters can easily be clipped into the Invisivent AIR and COMFORT. They close the opening by 100 mm so that the maximum flow can be adjusted to suit your needs. When split in half, each section can be used to seal off 50 mm of the supply opening. These restrictors serve as the perfect way to control the maximum air flow.



**REPLACEABLE ACOUSTIC FOAM**
Thanks to the perforations in the PVC middle profile, the acoustic foam in Invisivent AIR and Invisivent COMFORT can easily be removed from the window vent for easy cleaning or replacement.



**POLLUX®: OPTIONAL FINE DUST AND POLLEN FILTER**
For fine dust-loaded environments, a Pollux type 04 filter can optionally be added to the Invisivent AIR/COMFORT.






# FLAP VENTILATORS GLAZED-IN/AT TRANSOM

This window vent type has been designed for glazed-in installation and can be integrated into aluminium, wood and UPVC window frames. These vents can also be placed at transom using an additional transom profile.



## Thermally interrupted


| | |
|---|---|
| TC60 | 34 |
| AR60 | 36 |
| AR90 | 38 |
| THM90*EVO* | 40 |
| Variavent® | 42 |


## Thermally interrupted and sound-absorbing

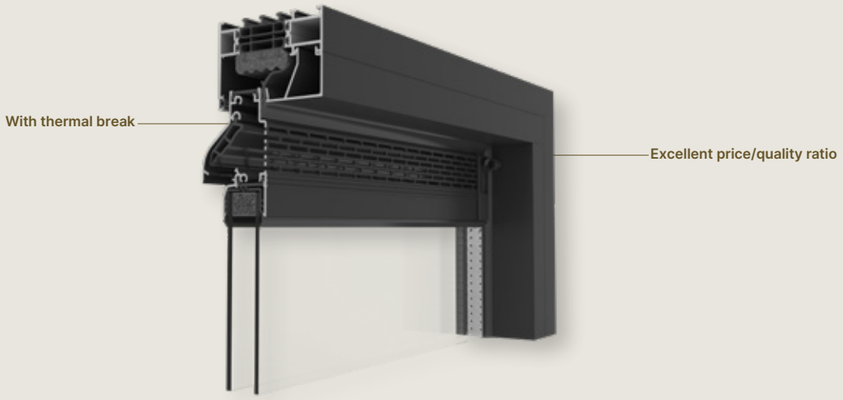

| | |
|---|---|
| Sonovent® | 44 |
| Sonovent® Compact | 48 |

# TC60

## Compact window vent with an excellent price-quality ratio

TC60 is a non-self-regulating, aluminium window vent with a thermal break for glazed-in installation . What sets TC60 apart is the slightly sloping design of its outer profile and its glass reduction of just 60 mm.

GLAZED IN/ AT TRANSOM POSITION

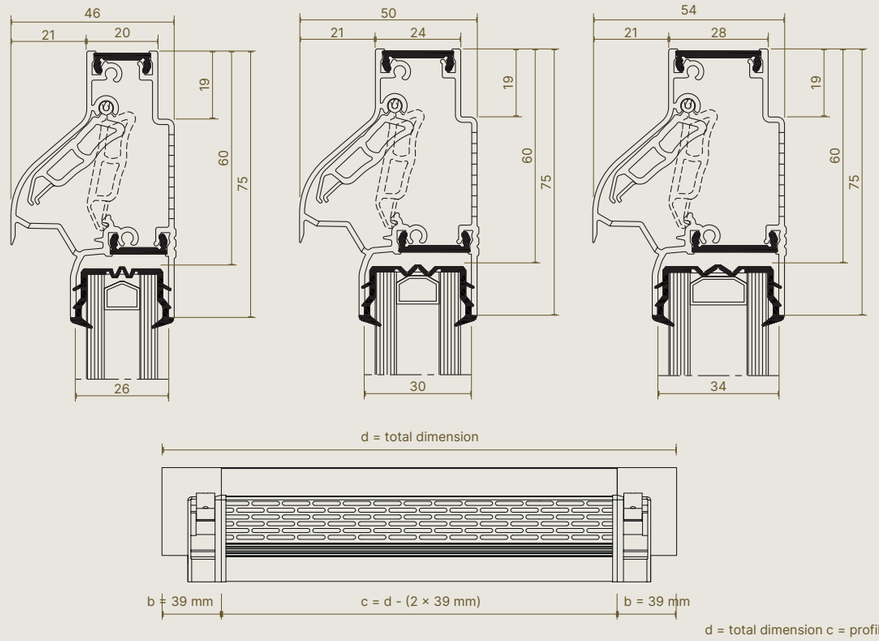



| Technical properties | |
|---|---|
| Installation at transom | ✓ |
| With thermal break | ✓ |
| Self-regulating | - |
| Flat inner profile | ✓ |
| Insect-proof | ✓ |

| Technical details | |
|---|---|
| **Airflow** | |
| Equivalent area | 15652 $mm^2/m$ |
| Q at 1 Pa | 12.3 l/s/m |
| Q at 1 Pa | 44.3 $m^3/h/m$ |
| Q at 2 Pa | 17.4 l/s/m |
| Q at 10 Pa | 38.9 l/s/m |
| Q at 20 Pa | 55.0 l/s/m |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | |
| In open position | 28 (0;0) dB |
| In closed position | 42 (0;0) dB |
| **Technical details** | |
| Positions | Infinitely adjustable |
| Controls | Cord, manual, rod |
| U value | 3.3 $W/m^2K$ |
| Airflow at 50 Pa | <15% (in closed position) |
| Watertightness in closed position | Up to 650 Pa |
| Watertightness in open position | Up to 10 Pa |
| **Dimensions** | |
| Glass reduction | 60 mm |
| Product height | 75 mm |
| Product Height at transom | 100 mm |
| Glass thickness | 20, 24 or 28 mm |
| Max. length | 2000 mm |



### Detailed drawings

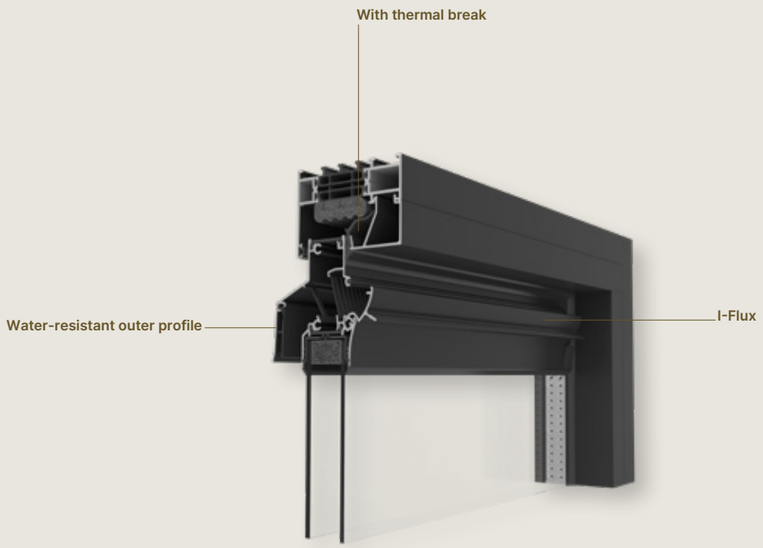


# AR60

GLAZED IN/ AT TRANSOM POSITION

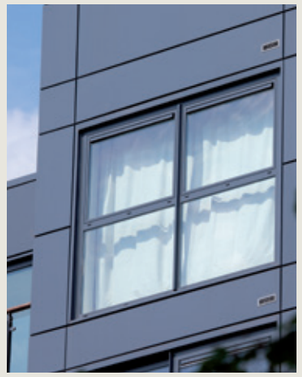
## Self-regulating window vent

What sets AR60 apart is its curved inner profile that directs the incoming air flow upwards. On the outside, AR60 comes with a rain protection cover. The self-regulating valve prevents draughts and helps to minimise energy loss.

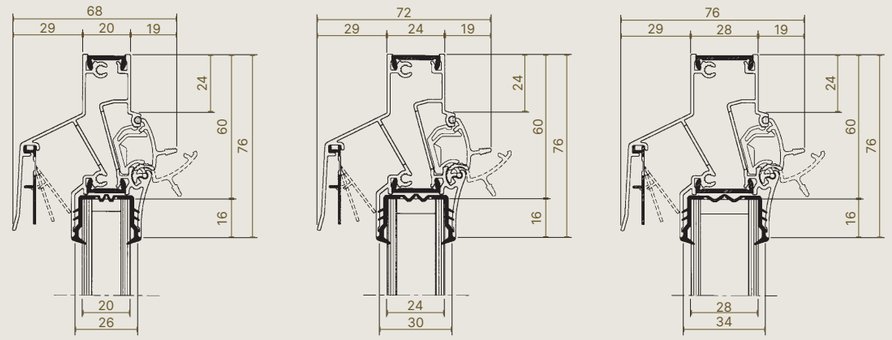



| Technical properties | |
|---|---|
| Installation at transom | ✓ |
| With thermal break | ✓ |
| Self-regulating | ✓ |
| I-Flux | Fresh air supply without draughts, manually adjustable |
| Flat inner profile | - |
| Insect-proof | ✓ |

| Technical details | |
|---|---|
| **Airflow** | |
| Equivalent area | 10427 $mm^2$ |
| Q at 1 Pa | 8,2 l/s/m |
| Q at 1 Pa | 29,5 $m^3$/h/m |
| Q at 2 Pa | 11,8 l/s/m |
| Q at 10 Pa | 19,7 l/s/m |
| Q at 20 Pa | 23,9 l/s/m |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | |
| In open position | 27 (0;0) dB |
| In closed position | 44 (0;0) dB |
| **Technical details** | |
| Positions | 5 positions |
| Controls | Cord, manual, rod |
| U value | 4.5 W/$m^2$K |
| Airflow at 50 Pa | <15% (in closed position) |
| Watertightness in closed position | Up to 650 Pa |
| Watertightness in open position | Up to 100 Pa |
| **Dimensions** | |
| Glass reduction | 60 mm |
| Product height | 76 mm |
| Product height at transom | 100 mm |
| Glass thickness | 20, 24 or 28 mm |
| Max. length | 3500 mm |



### Detailed drawings

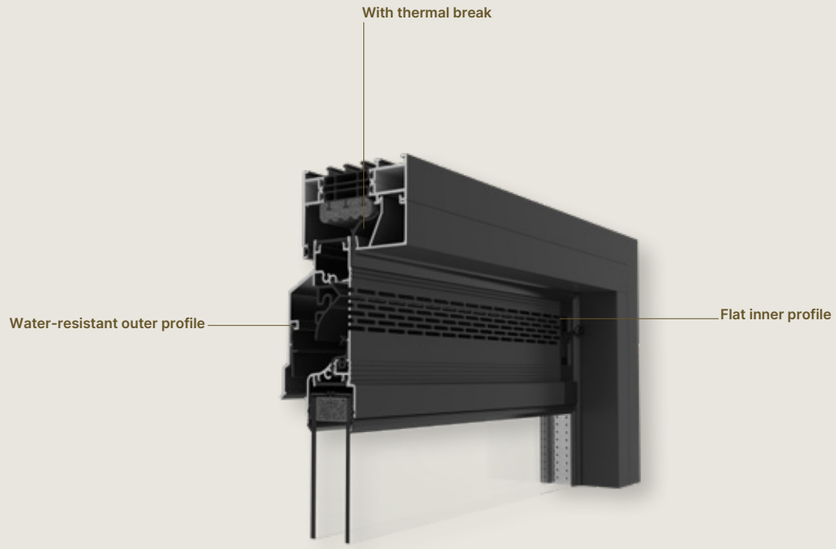


# AR90

GLAZED IN/ AT TRANSOM POSITION

## Self-regulating window vent

What sets the self-regulating AR90 apart is its flat inner profile which makes it the ideal solution for integration in the fixed part of a sliding window. On the outer profile AR90 comes with a water-resistant outer profile.

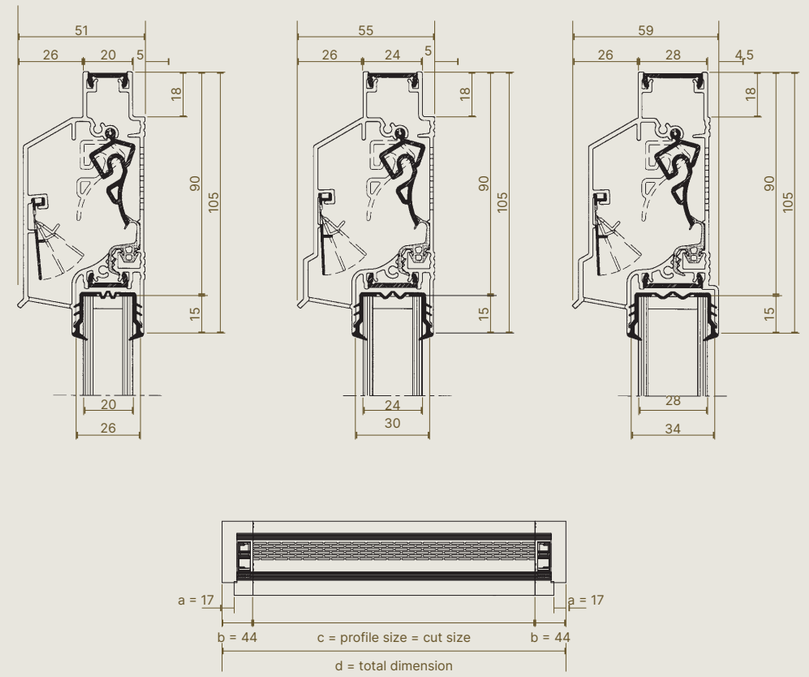



| Technical properties | |
|---|---|
| Installation at transom | ✓ |
| With thermal break | ✓ |
| Self-regulating | Maximum supply of fresh air without draughts |
| Flat inner profile | ✓ |
| Insect-proof | ✓ |

| Technical details | |
|---|---|
| **Airflow** | |
| Equivalent area | 14252 mm²/m |
| Q at 1 Pa | 11.2 l/s/m |
| Q at 1 Pa | 40.3 m³/h/m |
| Q at 2 Pa | 15.6 l/s/m |
| Q at 10 Pa | 11.4 l/s/m |
| Q at 20 Pa | 9.1 l/s/m |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | |
| In open position | 30 (-1;-2) dB |
| In closed position | 45 (-1;-3) dB |
| **Technical details** | |
| Positions | 5 positions |
| Controls | Cord, manual, motor, rod |
| U value | 3.9 W/m²K |
| Airflow at 50 Pa | <15% (in closed position) |
| Watertightness in closed position | Up to 650 Pa |
| Watertightness in open position | Up to 100 Pa |
| **Dimensions** | |
| Glass reduction | 90 mm |
| Product height | 105 mm |
| Product height at transom | 130 mm |
| Glass thickness | 20, 24 or 28 mm |
| Max. length | 2500 mm (2000 mm with motor control) |



### Detailed drawings

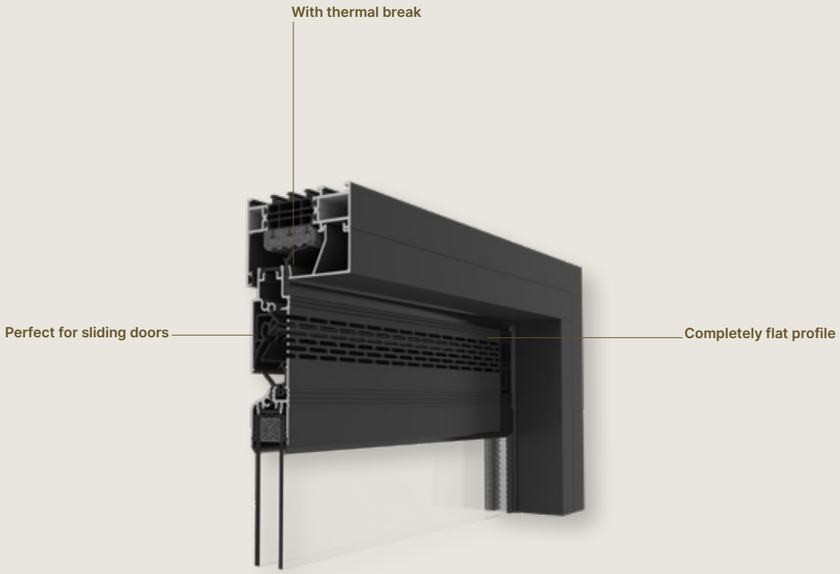


# THM90$^{EVO}$

GLAZED IN/ AT TRANSOM POSITION

## Flat, self-regulating window vent

THM90$^{EVO}$ is a completely flat window vent, which makes it perfect for integration into sliding windows and doors. THM90$^{EVO}$ can be placed either on the glass, at the bottom of the window (THM90PB$^{EVO}$) of between the profiles (THM90TR$^{EVO}$).



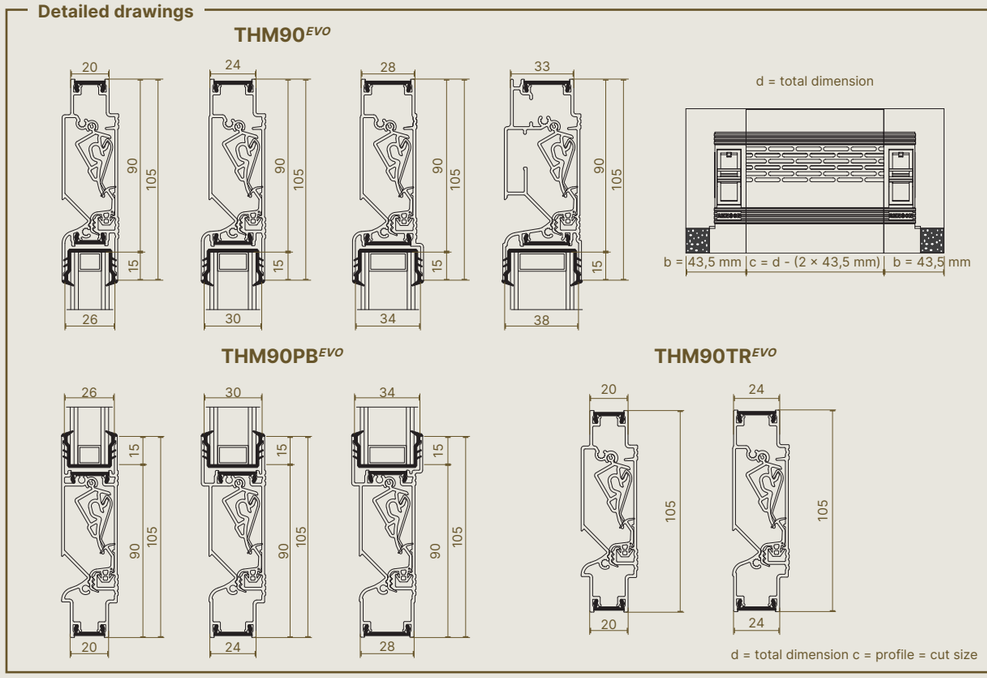

| Technical properties | THM90$^{evo}$ | THM90PB$^{evo}$ | THM90TR$^{evo}$ |
|---|---|---|---|
| Installation | On the glass | At the bottom of the glass | Between profiles |
| Application | Ground floor | | |
| With thermal break | ✓ | | |
| Self-regulating | Maximum supply of fresh air without draughts | | |
| Flat inner profile | ✓ | | |
| Insect-proof | ✓ | | |

| Technical details | |
|---|---|
| **Airflow** | |
| Equivalent area | 11841 mm²/m |
| Q at 1 Pa | 9.3 l/s/m |
| Q at 1 Pa | 33.5 m³/h/m |
| Q at 2 Pa | 13.9 l/s/m |
| Q at 10 Pa | 13.5 l/s/m |
| Q at 20 Pa | 15.1 l/s/m |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | |
| In open position | 26 (0;0) dB |
| In closed position | 45 (-1;-1) dB |
| **Technical details** | |
| Positions | 5 positions |
| Controls | Cord, manual, motor, rod |
| U value | 3.8 W/m²K |
| Airflow at 50 Pa | <15% (in closed position) |
| Watertightness in closed position | Up to 650 Pa |
| Watertightness in open position | Up to 100 Pa |
| **Dimensions** | |
| Glass reduction | 90 mm / 105* mm |
| Product height | 105 mm |
| Product height at transom | 105 mm |
| Glass thickness | |
| THM90$^{EVO}$ | 20, 24, 28 or 33 mm |
| THM90PB$^{EVO}$ | 20, 24 or 28 mm |
| THM90TR$^{EVO}$ | 20 or 24 mm |
| Max. length | 2500 mm (2000 mm with motor control) |

* THM90TR$^{EVO}$



### Detailed drawings

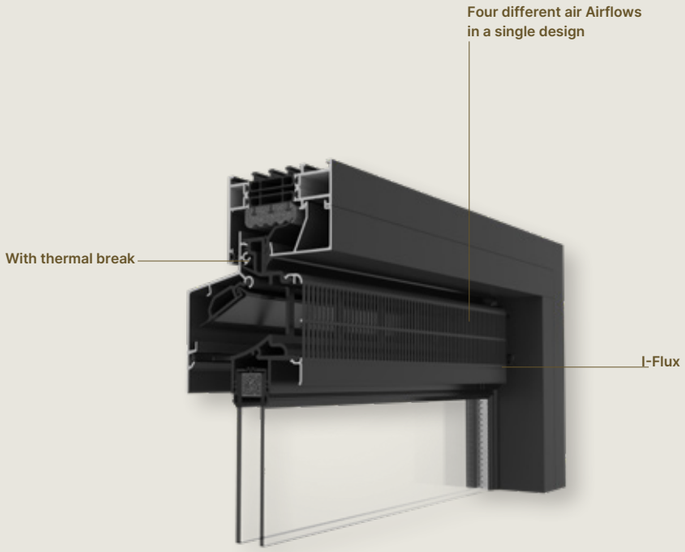


# VARIAVENT®

GLAZED IN/ AT TRANSOM POSITION

## Our self-regulating window vent, redesigned

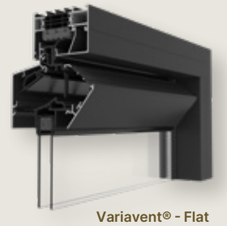
Variavent is a self-regulating window vent with a contemporary look, owing to the sleek, straight lines of its exterior profile. As the successor to the well-known AR75, this new generation of window vent perfectly combines proven technologies and contemporary design.




| Technical properties | |
|---|---|
| Installation at transom | ✓ |
| With thermal break | ✓ |
| Self-regulating | ✓ |
| I-Flux | Fresh air supply without draughts, manually adjustable |
| Filters (Optional) | Pollux filter type 02 |
| Flat inner profile | ✓ (Variavent Flat) |
| Insect-proof | ✓ |

| Technical details | | | | |
|---|---|---|---|---|
| **Airflow** | **Small** | **Medium** | **Large** | **XLarge** |
| Equivalent area | 12725 mm²/m | 19088 mm²/m | 22905 mm²/m | 26595 mm²/m |
| Q at 1 Pa | 10 l/s/m | 15 l/s/m | 18 l/s/m | 20.9 l/s/m |
| Q at 1 Pa | 36 m³/h/m | 54 m³/h/m | 64.8 m³/h/m | 75.2 m³/h/m |
| Q at 2 Pa | 14.2 l/s/m | 21.4 l/s/m | 25.6 l/s/m | 28.5 l/s/m |
| Q at 10 Pa | 12.7 l/s/m | 19.1 l/s/m | 22.9 l/s/m | 25.4 l/s/m |
| Q at 20 Pa | 13.6 l/s/m | 20.4 l/s/m | 24.4 l/s/m | 27.1 l/s/m |
| Manual restriction with flow restrictor | | | | |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | | | | |
| In open position | 25 (-1;-1) | | | |
| In closed position | 40 (-1;-2) | | | |
| **Technical details** | | | | |
| Position control | Infinitely adjustable | | | |
| Controls | Cord, manual, rod | | | |
| U value | 2.80 W/m²K | | | |
| Airflow at 50 Pa | <15% (in closed position) | | | |
| Watertightness in closed position | Up to 650 Pa | | | |
| Watertightness in open position | Up to 50 Pa | | | |
| **Dimensions** | | | | |
| Glass reduction | 80 mm | | | |
| Product height | 97 mm | | | |
| Product height at transom | 120 mm | | | |
| Glass thickness | 20, 24, 28, 32, 36, 40, 44* mm | | | |
| Max. length | 3000 mm | | | |

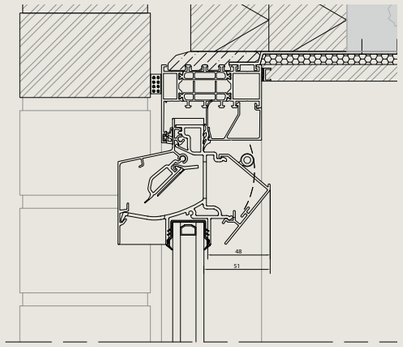
* not for installation at transom



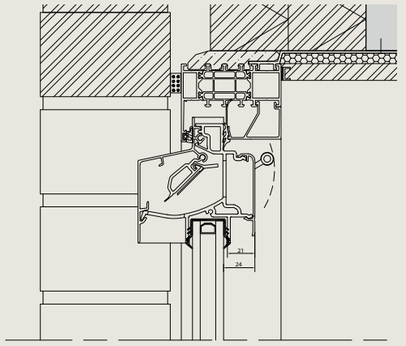
Variavent® - Flat

### Detailed drawings

**Variavent® - I-Flux®**



**Variavent® - Flat**

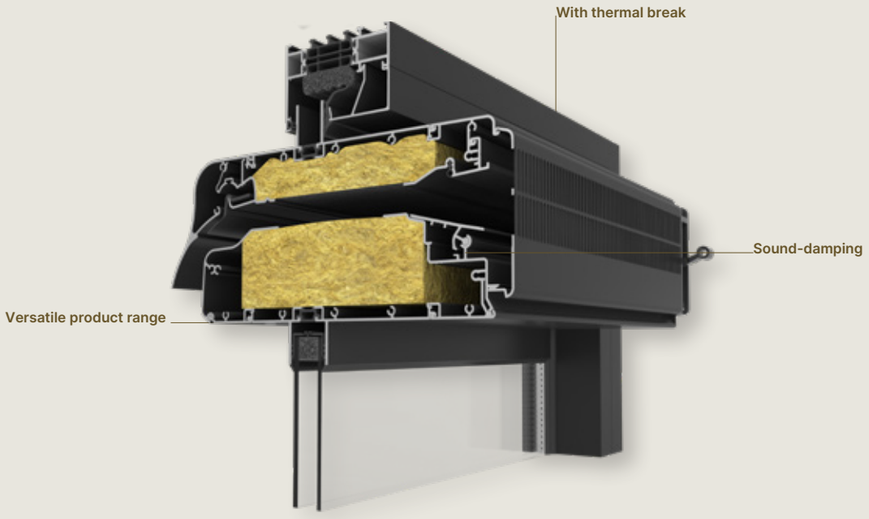


# SONOVENT®

GLAZED IN/ AT TRANSOM POSITION/ ROOF INSTALLATION

## The self-regulating window vent with superior sound reduction

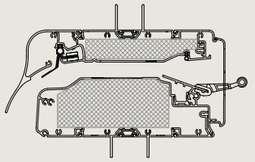
Sonovent is a versatile vent that offers extremely high physical comfort (= fresh, healthy air without draughts) and high acoustic comfort (= sound reduction up to 48 dB). Five different types of Sonovent are available: XSmall, Small, Medium, Large and XLarge, each with four different airflow openings (10, 15, 20 or 25 mm). The result is a total of 20 possible alternatives. What's more: the thermal breaks can be placed in different positions, depending on the model and installation method. As such, Sonovent offers the perfect solution for every situation.




| Technical properties | |
|---|---|
| **Installation at transom** | ✓ |
| **Sloped installation** | Minimum gradient: 22.5° |
| **With thermal break** | ✓ |
| **Self-regulating** | Maximum supply of fresh air without draughts |
| **Flat inner profile** | ✓ |
| **Sound-damping** | Variable Sound reduction depending on the model selected |
| **Insect-proof** | ✓ |

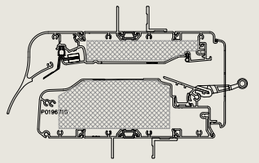
**Detailed drawings Sonovent®**

Glazed-in (Cat 1)
with 2 fixed flanges



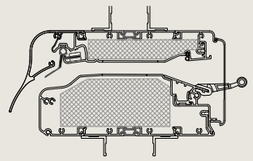
*Glass thickness*
*24 and 28 mm*

Glazed-in (Cat 2)
with 1 fixed flange, 1 fixed outer flange



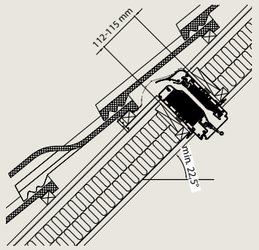
*Glass thickness*
*20, 22, 24, 26, 28, 30, 32, 34, 36,*
*38, 40, 42, 44, 46, 48, 50, 52, 54 mm*

Glazed-in (Cat 3)
Special edition



*Glass thickness*
*20 - 56mm (by 2mm)*

Sonovent roof installation



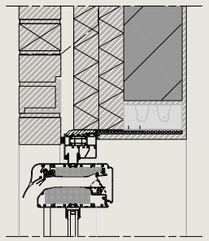

*The categories are analogous for a position at transom.*
*The Sonovent with integrated external flange is ideal for high-rise projects thanks to its excellent water tightness.*

## Installation

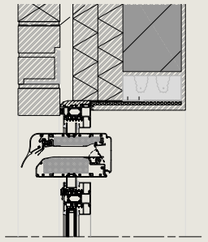
Sonovent has been developed r glazed-in or at transom installation (recommended).
By choosing the right Sonovent model for your application and by allowing for various lengths, you can realise both the required air Airflow and the necessary acoustic performance.

**Sonovent® installation**

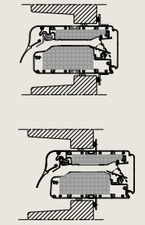
Glazed-in



At transom



Compact placement between two profiles



**We recommend against installing Sonovent on the tilt and turn section of a window.**

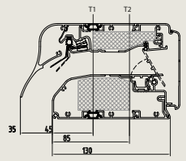
# The versatile Sonovent® range

Six different models with varying thermal break positions

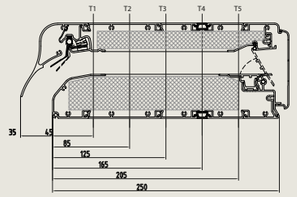
- Models: XSmall - Small – Medium – Large – XLarge – XXLarge
- Thermal break: different positions, 1 to 6

## Sonovent® models

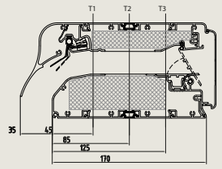
XSMALL



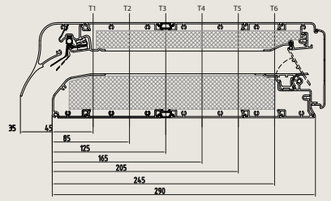

LARGE



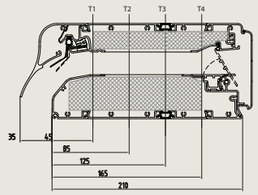

SMALL



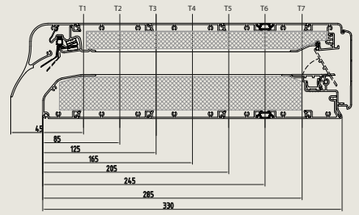

XLARGE




MEDIUM




XXLARGE

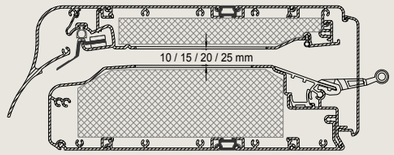



| Possible thermal break positions | | | | | | |
|---|---|---|---|---|---|---|
| | XSmall | Small | Medium | Large | XLarge | XXLarge |
| Naked box | 1-2 | 1-2-3 | 1-2-3-4 | 1-2-3-4-5 | 1-2-3-4-5-6 | 1-2-3-4-5-6-7 |
| Glazed-in | 1 - 2 | 1 - 2 - 3 | 1* – 2 - 3 - 4* | 1* – 2 - 3 - 4 - 5* | 1*– 2*- 3 - 4 - 5*- 6* | n/a |
| At transom | 1 - 2 | 1 - 2 - 3 | 1 – 2 - 3 - 4 | 1* – 2 - 3 - 4 - 5* | 1*– 2*- 3 - 4 - 5*- 6* | 1*-2*-3-4-5*-6*-7* |
| Compact placement | 1 - 2 | 1 - 2 - 3 | 1 – 2 - 3 - 4 | 1* – 2 - 3 - 4 - 5* | 1*– 2*- 3 - 4 - 5*- 6* | 1-2-3-4-5-6-7 |
| Roof installation | n/a | 2 | 2 | 2 | 2 | 2 |

* Upon request

## Air flow openings

Air gap: different air flow openings: 10 - 15 - 20 -25 mm



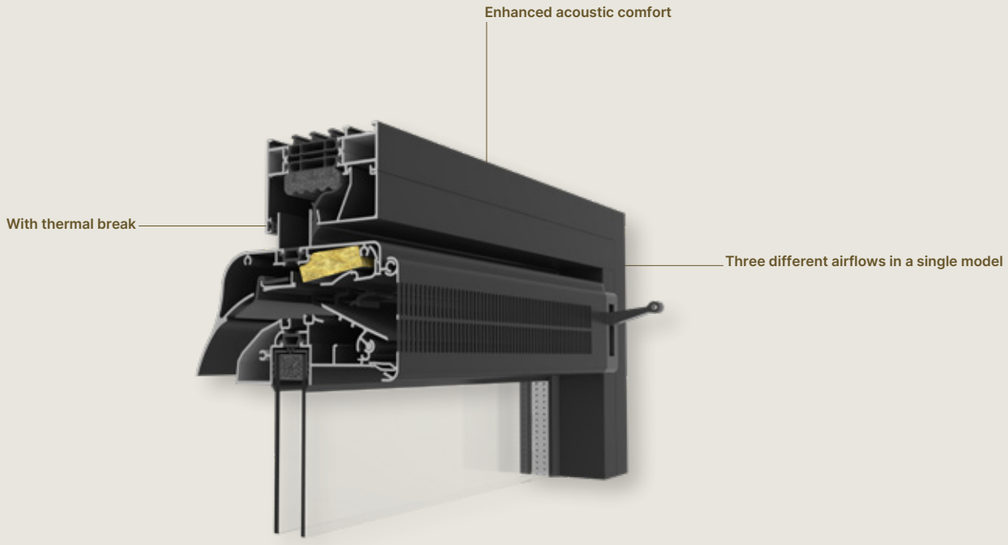

| Technical details | | | | | | | |
|---|---|---|---|---|---|---|---|
| Airflow | | XSmall | Small | Medium | Large | XLarge | XXLarge |
| Equivalent area | 10 mm airflow opening | 18416 mm²/m | 18324 mm²/m | 18070 mm²/m | 16670 mm²/m | 14888 mm²/m | 13995 mm²/m |
| | 15 mm airflow opening | 30693 mm²/m | 30540 mm²/m | 27359 mm²/m | 26341 mm²/m | 22269 mm²/m | 20933 mm²/m |
| | 20 mm airflow opening | 32995 mm²/m | 32831 mm²/m | 34258 mm²/m | 33085 mm²/m | 32067 mm²/m | 30143 mm²/m |
| | 25 mm airflow opening | 35041 mm²/m | 34867 mm²/m | 35121 mm²/m | 34485 mm²/m | 33721 mm²/m | 31698 mm²/m |
| Q at 1 Pa | 10 mm airflow opening | 14,5 l/s/m | 14,4 l/s/m | 14,2 l/s/m | 13,1 l/s/m | 11,7 l/s/m | 11,0 l/s/m |
| | 15 mm airflow opening | 24,1 l/s/m | 25,8 l/s/m | 21,5 l/s/m | 20,7 l/s/m | 17,5 l/s/m | 16,5 l/s/m |
| | 20 mm airflow opening | 25,9 l/s/m | 27,4 l/s/m | 27,0 l/s/m | 26,0 l/s/m | 25,2 l/s/m | 23,7 l/s/m |
| | 25 mm airflow opening | 27,5 l/s/m | 26,6 l/s/m | 27,6 l/s/m | 27,1 l/s/m | 26,5 l/s/m | 24,9 l/s/m |
| Q at 1 Pa | 10 mm airflow opening | 52,1 m³/h/m | 51,8 m³/h/m | 51,1 m³/h/m | 47,2 m³/h/m | 42,1 m³/h/m | 39,6 m³/h/m |
| | 15 mm airflow opening | 86,8 m³/h/m | 86,4 m³/h/m | 77,4 m³/h/m | 74,5 m³/h/m | 63,0 m³/h/m | 59,2 m³/h/m |
| | 20 mm airflow opening | 93,3 m³/h/m | 92,9 m³/h/m | 97,2 m³/h/m | 93,6 m³/h/m | 90,7 m³/h/m | 85,3 m³/h/m |
| | 25 mm airflow opening | 99,1 m³/h/m | 98,6 m³/h/m | 99,4 m³/h/m | 97,6 m³/h/m | 95,4 m³/h/m | 89,7 m³/h/m |
| Q at 2 Pa | 10 mm airflow opening | 20,4 l/s/m | 20,6 l/s/m | 20,7 l/s/m | 18,8 l/s/m | 16,8 l/s/m | 15,8 l/s/m |
| | 15 mm airflow opening | 34,1 l/s/m | 33,9 l/s/m | 30,8 l/s/m | 29,5 l/s/m | 24,7 l/s/m | 23,2 l/s/m |
| | 20 mm airflow opening | 36,9 l/s/m | 36,7 l/s/m | 38,2 l/s/m | 37,0 l/s/m | 35,7 l/s/m | 33,6 l/s/m |
| | 25 mm airflow opening | 39,2 l/s/m | 39,0 l/s/m | 39,4 l/s/m | 38,6 l/s/m | 37,8 l/s/m | 35,5 l/s/m |
| Q at 2 Pa | 10 mm airflow opening | 74,5 m³/h/m | 74,2 m³/h/m | 74,5 m³/h/m | 67,7 m³/h/m | 60,5 m³/h/m | 56,9 m³/h/m |
| | 15 mm airflow opening | 122,7 m³/h/m | 122,0 m³/h/m | 110,9 m³/h/m | 106,2 m³/h/m | 88,9 m³/h/m | 83,6 m³/h/m |
| | 20 mm airflow opening | 132,8 m³/h/m | 132,1 m³/h/m | 137,5 m³/h/m | 133,2 m³/h/m | 128,5 m³/h/m | 120,8 m³/h/m |
| | 25 mm airflow opening | 141,1 m³/h/m | 140,4 m³/h/m | 141,8 m³/h/m | 139,0 m³/h/m | 136,1 m³/h/m | 127,9 m³/h/m |
| Q at 10 Pa | 10 mm airflow opening | 19,1 l/s/m | 19,1 l/s/m | 18,1 l/s/m | 16,4 l/s/m | 14,7 l/s/m | 13,8 l/s/m |
| | 15 mm airflow opening | 30,4 l/s/m | 30,4 l/s/m | 26,9 l/s/m | 25,7 l/s/m | 21,5 l/s/m | 20,2 l/s/m |
| | 20 mm airflow opening | 29,5 l/s/m | 29,5 l/s/m | 33,3 l/s/m | 32,3 l/s/m | 31,1 l/s/m | 29,2 l/s/m |
| | 25 mm airflow opening | 29,9 l/s/m | 29,9 l/s/m | 32,8 l/s/m | 29,6 l/s/m | 33,0 l/s/m | 31,0 l/s/m |
| Q at 20 Pa | 10 mm airflow opening | 23,6 l/s/m | 23,6 l/s/m | 14,7 l/s/m | 13,4 l/s/m | 12,0 l/s/m | 11,3 l/s/m |
| | 15 mm airflow opening | 29,4 l/s/m | 29,4 l/s/m | 21,9 l/s/m | 21,0 l/s/m | 17,6 l/s/m | 16,5 l/s/m |
| | 20 mm airflow opening | 30,1 l/s/m | 30,1 l/s/m | 27,2 l/s/m | 26,4 l/s/m | 25,4 l/s/m | 23,9 l/s/m |
| | 25 mm airflow opening | 28,0 l/s/m | 28,0 l/s/m | 27,5 l/s/m | 25,8 l/s/m | 26,9 l/s/m | 25,3 l/s/m |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$) in open position** | | | | | | | |
| 10 mm airflow opening | | 36 (-1;-1) dB | 41 (-1;-2) dB | 44 (-1;-4) dB | 46 (-1;-4) dB | 48 (-1;-3) dB | 53 (-2;-5) dB |
| 15 mm airflow opening | | 31 (0;0) dB | 36 (0;-1) dB | 41 (0;-3) dB | 45 (-1;-4) dB | 47 (-1;-5) dB | 48 (-2;-7) dB |
| 20 mm airflow opening | | 32 (-1;-1) dB | 35 (0;-1) dB | 39 (-1;-3) dB | 41 (-1;-3) dB | 43 (-1;-4) dB | 45 (-2;-6) dB |
| 25 mm airflow opening | | 31 (-1;-1) dB | 34 (0;-2) dB | 37 (0;-3) dB | 40 (-1;-4) dB | 41 (-1;-4) dB | 44 (-2;-6) dB |
| Sound reduction $D_{n,e,w}$ ($C;C_{tr}$) in closed position | | n/a | | | | | |
| **Technical details** | | | | | | | |
| Positions | | Infinitely adjustable | | | | | |
| Controls | | Cord, manual, motor, rod | | | | | |
| U value | | 2,8 W/m²K | | | | | |
| Airflow at 50 Pa | | <15% (in closed position) | | | | | |
| Windproofness (EN1026) | | up to 650 Pa | | | | | |
| Watertightness in closed position | | Up to 1200 Pa | | | | | |
| **Dimensions** | | | | | | | |
| Glass reduction | | 130 mm (20 mm flange), 135 mm (25 mm flange) | | | | | |
| Product height | | 105 mm (total height with flange profiles: 145 or 150 mm) | | | | | |
| Glass thickness | | 20, 24, 28, 32, 36, 40, 44 mm (other glass thicknesses upon request) | | | | | |
| Glazing channels | | 26 to 62 mm (depending on category) | | | | | |
| Max. length | | 2000 mm (installation on the glass) / 2500 mm (Installation at transom) | | | | | |
| Depth/Total depth | | 130/165 mm | 170/205 mm | 210/245 mm | 250/285 mm | 290/325 mm | 330/365 mm |
| **Sonovent® roof installation dimensions** | | | | | | | |
| Product height | | 105 mm (ventilation box height) / 155 mm (total height with flange profiles) | | | | | |
| Roof shell thickness | | 130 mm | 170 mm | 210 mm | 250 mm | 290 mm | 330 mm |
| Minimum inclination angle | | 22.5° | | | | | |
| Roof opening | | 115 mm | | | | | |
| Maximum length | | 1250 mm | | | | | |

# SONOVENT® COMPACT

GLAZED IN/ AT TRANSOM POSITION

## Compact self-regulating acoustic window vent

Sonovent Compact is Sonovent's little brother.
This compact, sound-damping window vent offers a great balance between acoustic damping and airflow.

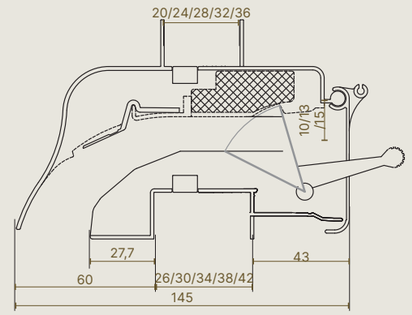



| Technical properties | |
|---|---|
| Installation at transom | ✓ |
| With thermal break | ✓ |
| Self-regulating | Maximum supply of fresh air without draughts |
| Sound-damping | Variable Sound reduction depending on the airflow opening selected |
| Flat inner profile | ✓ |
| Insect-proof | ✓ |

| Technical details | | |
|---|---|---|
| **Airflow** | | |
| Equivalent area | 10 mm airflow opening | 15334 mm²/m |
| | 13 mm airflow opening | 19278 mm²/m |
| | 15 mm airflow opening | 24687 mm²/m |
| Q at 1 Pa | 10 mm airflow opening | 12,1 l/s/m |
| | 13 mm airflow opening | 15,2 l/s/m |
| | 15 mm airflow opening | 19,4 l/s/m |
| Q at 1 Pa | 10 mm airflow opening | 43,4 m³/h/m |
| | 13 mm airflow opening | 54,5 m³/h/m |
| | 15 mm airflow opening | 69,8 m³/h/m |
| Q at 2 Pa | 10 mm airflow opening | 16,4 l/s/m |
| | 13 mm airflow opening | 18,8 l/s/m |
| | 15 mm airflow opening | 19,9 l/s/m |
| Q at 2 Pa | 10 mm airflow opening | 58,9 m³/h/m |
| | 13 mm airflow opening | 67,7 m³/h/m |
| | 15 mm airflow opening | 71,5 m³/h/m |
| Q at 10 Pa | 10 mm airflow opening | 17,3 l/s/m |
| | 13 mm airflow opening | 18,8 l/s/m |
| | 15 mm airflow opening | 18,6 l/s/m |
| Q at 20 Pa | 10 mm airflow opening | 17,8 l/s/m |
| | 13 mm airflow opening | 18,7 l/s/m |
| | 15 mm airflow opening | 19,1 l/s/m |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | | |
| In open position | | |
| 10 mm airflow opening | | 36 (0;-1) dB |
| 13 mm airflow opening | | 35 (0;-1) dB |
| 15 mm airflow opening | | 33 (0;-1) dB |
| In closed position | | N/a |
| **Technical details** | | |
| Positions | | Infinitely adjustable |
| Controls | | Cord, manual, rod |
| U value | | 3.45 W/m²K |
| Airflow at 50 Pa | | <15% (in closed position) |
| Watertightness in closed position | | Up to 650 Pa |
| **Dimensions** | | |
| Glass reduction | | 78 mm |
| Product height | | 75 mm (ventilation box height) / 95 mm (total height with flange profiles) |
| Glass thickness | | 20, 24, 28, 32 or 36 mm |
| Max. length | | 2000 mm (installation on the glass) or 2500 mm (Installation at transom) |



**Detailed drawings:**




FLAP VENTILATORS GLAZED-IN/AT TRANSOM

# ROLLER SHUTTER FLAP VENTILATOR

Transivent is a self-regulating window vent with a thermal break designed especially for installation in a roller shutter box. This product has been developed for situation where ventilation may be somewhat of an afterthought, but is still required nonetheless. Thanks to its integration in the roller shutter box, Transivent can be used to ventilate various rooms around your home in a simple way.

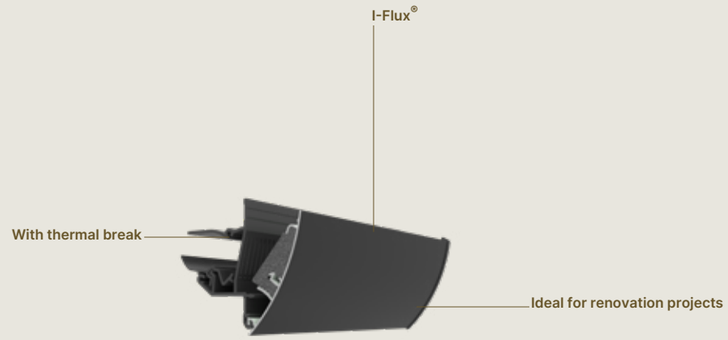


# TRANSIVENT®

ROLLER SHUTTER FLAP VENTILATOR

## Self-regulating window vents for roller shutter boxes

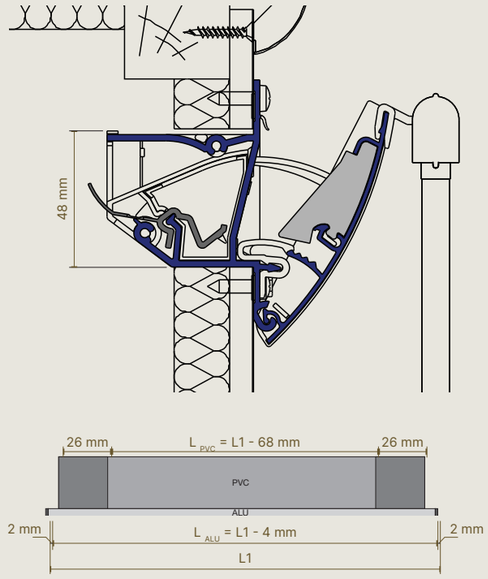
The curved aluminium inner profile directs the air flow upwards.




| Technical properties | |
|---|---|
| With thermal break | ✓ |
| Self-regulating | ✓ |
| I-Flux | Fresh air supply without draughts, manually adjustable |
| Insect-proof | ✓ |

| Technical details | |
|---|---|
| **Airflow** | |
| Equivalent area | 13748 mm²/m |
| Q at 1 Pa | 10.8 l/s/m |
| Q at 1 Pa | 38.9 m³/h/m |
| Q at 2 Pa | 15.2 l/s/m |
| Q at 10 Pa | 20.1 l/s/m |
| Q at 20 Pa | 19.9 l/s/m |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | |
| In open position | 28 (-1;-2) dB |
| In closed position | 44 (-1;-2) dB |
| **Technical details** | |
| Positions | 5 positions |
| Controls | Cord, manual or rod |
| U value | 3.0 W/m²K |
| Airflow at 50 Pa | <15% (in closed position) |
| Watertightness in closed position | Up to 650 Pa |
| Watertightness in open position | Up to 150 Pa |
| **Dimensions** | |
| Product height | 91 mm |
| Installation height | 48 mm |
| Slot height | 50 mm |
| Recessed depth | 60 mm |
| Max. length | 2200 mm (1500 mm with cord control) |

### Detailed drawings



# SLIDING VENTS

Sliding vents offer a simple way to control the circulation of air, allowing you to enjoy a constant supply of fresh air from outside.

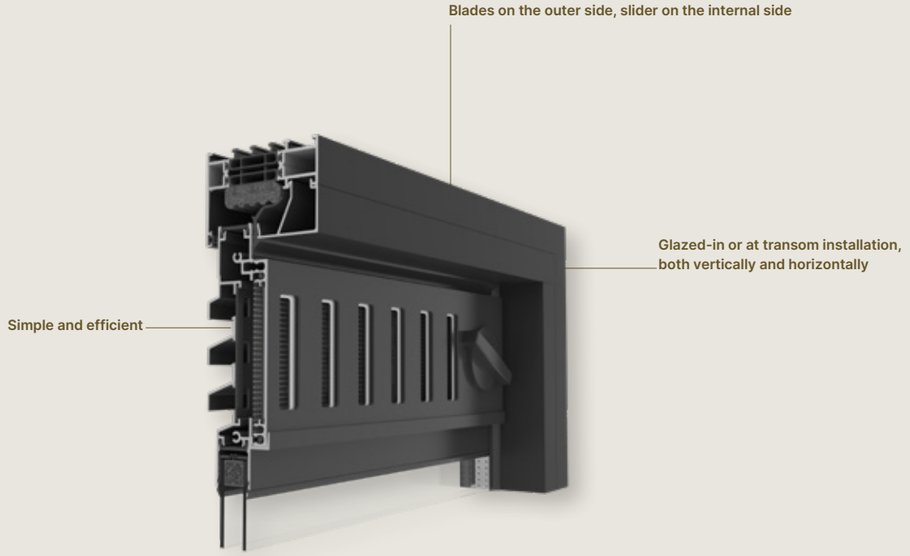


# THL100(V)

SLIDING VENTS

## Sliding ventilation

THL100 is a made-to-measure sliding ventilation system with a thermal break and blades that can be installed vertically (THL100V) or horizontally (THL100). THL100V delivers a natural circulation of air: fresh air comes in below, and humid and warm air is extracted above.

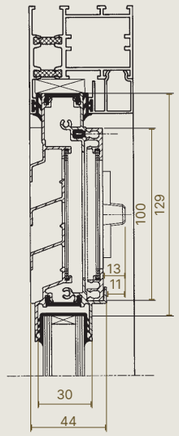



| Technical properties | THL100 / THL100V | THL100-TR / THL100V-TR |
|---|---|---|
| Installation | Glazed-in | At transom |
| With thermal break | ✓ | |
| Self-regulating | - | |
| Insect-proof | ✓ | |

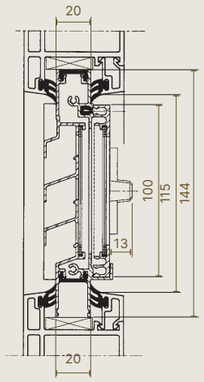
| Technical details | | |
|---|---|---|
| **Airflow** | **THL100** | **THL100V** |
| Equivalent area | 16759 mm²/m | 12770 mm²/m |
| Q at 1 Pa | 13.2 l/s/m | 10.0 l/s/m |
| Q at 1 Pa | 47.4 m³/h/m | 36.1 m³/h/m |
| Q at 2 Pa | 18.7 l/s/m | 14.2 l/s/m |
| Q at 10 Pa | 41.6 l/s/m | 32.1 l/s/m |
| Q at 20 Pa | 58.9 l/s/m | 45.5 l/s/m |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | | |
| In open position | 22 (0;0) dB | |
| In closed position | 42 (-1;-2) dB | |
| **Technical details** | | |
| Positions | Infinitely adjustable | |
| Controls | Chain, cord, motor, manually or rod | |
| U value | 3.9 W/m²K | |
| Airflow at 50 Pa | n/a | |
| Watertightness in closed position | Up to 400 Pa | n/a |
| Watertightness in open position | n/a | |
| **Dimensions** | | |
| Glass reduction | 129 mm | |
| Product height | 144 mm | |
| Glass thickness | 20, 24 or 28 mm | |
| Max. length | 3500 mm | |

### Detailed drawings

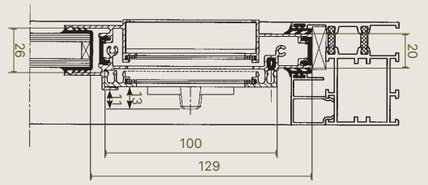
**THL100**



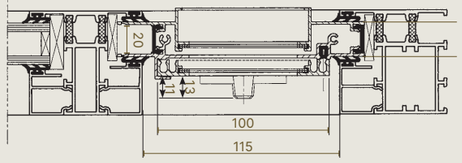

**THL100-TR**




**THL100V**




**THL100V-TR**



# T100 - T130 - T150

SLIDING VENTS

## Horizontal sliding ventilation for at transom installation

T100, T130 and T150 are aluminium sliding ventilation systems without a thermal break, designed for at transom installation. As a standard, these vents consist of two separate parts. The outer part is a decorative vent with angled blades to prevent water from seeping in. The inner part contains a manually controllable slider to control the incoming airflow.

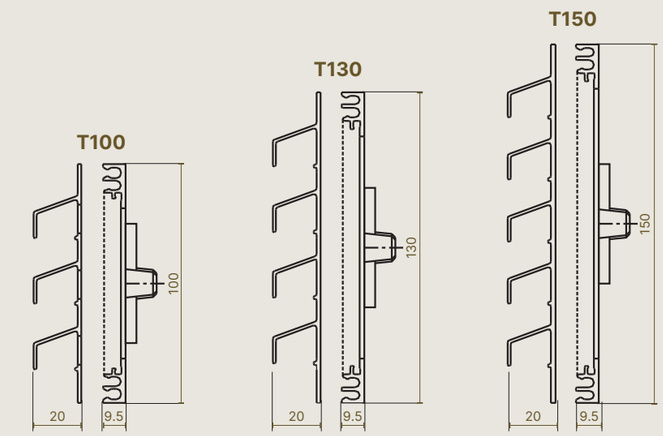



| Technical properties | |
|---|---|
| Installation | Suitable for at transom installation |
| With thermal break | - |
| Self-regulating | - |
| Insect-proof | ✓ |

**Note:** Not suitable for installation in the direct vicinity of seawater and the beach

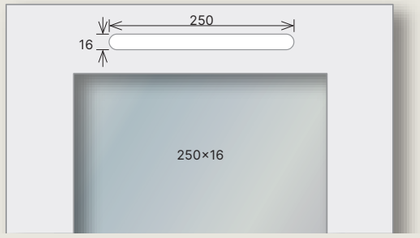
| Technical details | | | |
|---|---|---|---|
| **Airflow** | **T100** | **T130** | **T150** |
| Equivalent area | 17326 mm²/m | 24589 mm²/m | 27992 mm²/m |
| Q at 1 Pa | 13,6 l/s/m | 19,3 l/s/m | 22,0 l/s/m |
| Q at 1 Pa | 49,0 m³/h/m | 69,6 m³/h/m | 79,2 m³/h/m |
| Q at 2 Pa | 19,5 l/s/m | 27,7 l/s/m | 31,9 l/s/m |
| Q at 10 Pa | 43,8 l/s/m | 62,1 l/s/m | 71,5 l/s/m |
| Q at 20 Pa | 61,9 l/s/m | 87,9 l/s/m | 101,0 l/s/m |
| **Sound reduction $D_{n,e,w}$ ($C;C_{tr}$)** | | | |
| In open position | n/a | | |
| In closed position | n/a | | |
| **Technical details** | | | |
| Positions | Infinitely adjustable | | |
| Controls | Chain, cord, manually, motor or rod | | |
| U value | n/a | | |
| Airflow at 50 Pa | n/a | | |
| Watertightness in closed position | n/a | | |
| Watertightness in open position | n/a | | |
| **Dimensions** | | | |
| Product height | 100 mm | 130 mm | 150 mm |
| Max. length | 3500 mm | | |

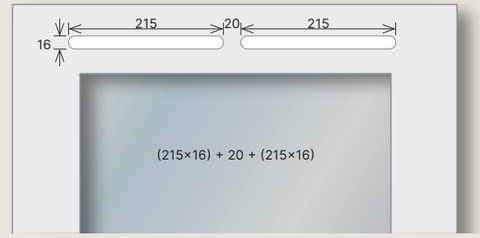
### Detailed drawings



# SLOTVENTS

Renson has developed an extensive range of slotvents. The Renson slotvents are manufactured in aluminium, this to ensure the highest possible quality and durability. These aluminium slotvents can be powdercoated in any color making a perfect integration possible on wooden, PVC and aluminium window frames. Renson proposes some standard lengths for the slotvents but most of the types can be made to measure.






# SONOSLOT®

SLOTVENTS

## Self-regulating acoustic slotvent kit

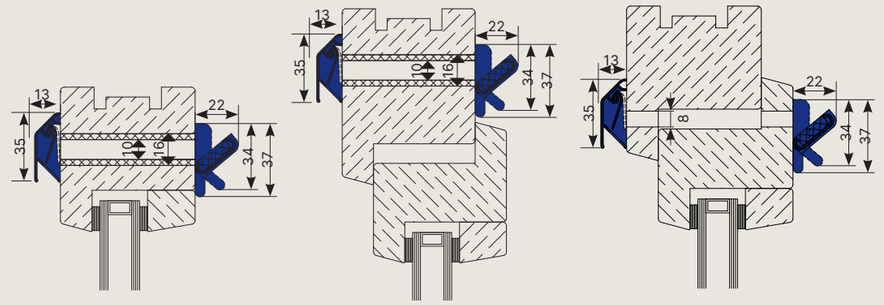
The Sonoslot is a self-regulating, sound absorbing slotvent kit consisting of an external slotvent, internal slotvent and a plastic sleeve with integrated sound absorbing baffle in-between. This slotvent is suitable for all window depths and can be used for window frames made of wood, PVC and aluminium. Optionally, the Sonoslot can also be installed in permanently open position, by clicking a special clip in the interior slotvent.




| Technical properties | |
|---|---|
| Installation | Through the window frame |
| Sound absorbing | 38 (0;0) dB in open position |
| i-Flux® | ✓ |
| Insect-proof | ✓ |

| Technical characteristics | | | | |
|---|---|---|---|---|
| **Airflow** | **Sonoslot® 275 mm** | **Sonoslot® 375 mm** | **Sonoslot® 475 mm** | **Sonoslot® 700 mm** |
| Equivalent area | 1273 mm² | 1607 mm² | 2121 mm² | 3181 mm² |
| Q at 1 Pa | 1,0 l/s | 1,3 l/s | 1,7 l/s | 2,5 l/s |
| Q at 1 Pa | 3,6 m³/h | 4,5 m³/h | 6,0 m³/h | 9,0 m³/h |
| Q at 2 Pa | 1,4 l/s | 1,7 l/s | 2,3 l/s | 3,4 l/s |
| Q at 10 Pa | 3,2 l/s | 4,0 l/s | 5,3 l/s | 8,0 l/s |
| Q at 20 Pa | 3,3 l/s | 4,2 l/s | 5,6 l/s | 8,4 l/s |
| **Comfort** | | | | |
| Sound reduction Dn,e,w (C;Ctr) | | | | |
| In open position | 38 (0;0) dB | 37 (0;0) dB | 36 (0;0) dB | 34 (0;0) dB |
| In closed position | - | | | |
| **Technical characteristics** | | | | |
| Controllable internal flap | Continuous adjustment | | | |
| Control options internal flap | Manual | | | |
| U value | 1,4 W/m².K | | | |
| Air leakage at 50 Pa | < 15 % in closed position | | | |
| Watertightness in closed position, up to | - | | | |
| Watertightness in open position, up to | - | | | |
| **Dimensions** | | | | |
| Product height | 35 mm | | | |
| Length | 275 mm | 375 mm | 475 mm | 700 mm |
| Slotsize opening | (105,5 × 16) + 24 + (105,5 × 16) | (105,5 × 16) + 14,3 + (105,5 × 16) + 14,3 + (105,5 × 16) | (105,5 × 16) + 7,5 + (105,5 × 16) + 7,5 + (105,5 × 16) + 7,5 + (105,5 × 16) | (105,5 × 16) + 7,5 + (105,5 × 16) + 7,5 + (105,5 × 16) + 7,5 + (105,5 × 16) + 7,5 + (105,5 × 16) + 7,5 + (105,5 × 16) |
| Length acoustic foam | 2 × 103 mm | 3 × 103 mm | 4 × 103 mm | 6 × 103 mm |
| Depth acoustic foam | 70 mm | | | |
| Depth plastic sleeve | 90 mm | | | |

### Detailed drawings




Fixed glazing

Ventilation for tilt & turn windows

Ventilation for tilt & turn window, through the opening (without acoustic damping)

# SONOSLOT® MAX

SLOTVENTS

## Self-regulating slotvent kit with high acoustic damping

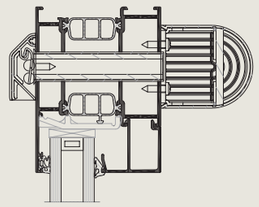
Sonoslot Max is a self-regulating slotvent kit offering a higher sound absorption than the Sonoslot, existing of an external slotvent, an internal slotvent and a plastic sleeve with integrated sound absorbing baffle in-between. The aluminium external slotvent is self-regulating, which keeps the airflow fairly uniform in strong winds and prevents draughts. Moreover, the external slotvent is perforated and also acts as an insect mesh screen. The internal slotvent of the Sonoslot Max is permanently open and includes extra acoustic damping. The noise-damping baffle is standard 70 mm thick and the plastic sleeve is standard 90 mm thick, but both can easily be adapted to suit different window frame depths. This slotvent combination suits for all window depths. It can be used for both new build and renovation projects.



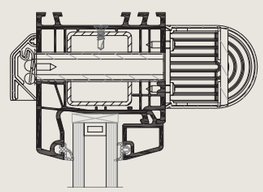

| Technical properties | |
|---|---|
| Installation | Through the window frame |
| Sound absorbing | 40 (-1;-2) dB in open position |
| i-Flux® | ✓ |
| Insect-proof | ✓ |

| Technical characteristics | | |
|---|---|---|
| **Airflow** | **Without acoustic foam** | **With acoustic foam** |
| Equivalent area | 2298 mm² | 1555 mm² |
| Q at 1 Pa | 1,8 l/s | 1,2 l/s |
| Q at 1 Pa | 6,5 m³/h | 4,4 m³/h |
| Q at 2 Pa | 2,7 l/s | 1,9 l/s |
| Q at 10 Pa | 6,8 l/s | 5,1 l/s |
| Q at 20 Pa | 6,9 l/s | 7,6 l/s |
| **Comfort** | | |
| Sound reduction Dn,e,w (C;Ctr) | | |
| In open position | 38 (-1;-2) dB | 40 (-1;-2) dB |
| In closed position | - | |
| **Technical characteristics** | | |
| Controllable internal flap | no | |
| Control options internal flap | n.a. | |
| U value | - | |
| Air leakage at 50 Pa | - | |
| Watertightness in closed position, up to | - | |
| Watertightness in open position, up to | - | |
| **Dimensions** | | |
| Product height | 35 mm (exterior part) / 45 mm (interior part) | |
| Length | 700 mm | |
| Slotsize opening | (105,5 × 16) + 7,5 + (105,5 × 16) + 7,5 + (105,5 × 16) + 7,5 + (105,5 × 16) + 7,5 + (105,5 × 16) + 7,5 + (105,5 × 16) | |
| Length acoustic foam | n.a. | 6 × 103 mm |
| Depth acoustic foam | n.a. | 70 mm |
| Depth plastic sleeve | 90 mm | |

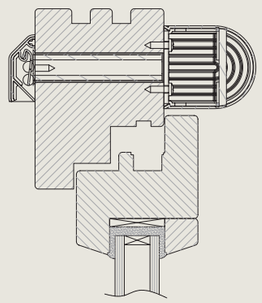
### Detailed drawings



Window frame : aluminum



Window frame : PVC



Window frame : wood

# PYRAMID

## Smallest vent on the market that provides 5000 mm² EA airflow

The Pyramid is a non-self-regulating compact slotvent kit. It is the smallest vent on the market responding to the ventilation regulation Part F (England & Wales) providing an Equivalent Area of 5000 mm2. The Pyramid ventilator is surface mounted on PVC, timber and aluminium windows and is compatible with slot heights from 13 up to 16 mm. The external canopy offers excellent weather protection and incorporates a stainless steel insect mesh screen. The internal slotvent deflects, in open position, the incoming air upwards for optimal spread of fresh air in the room.

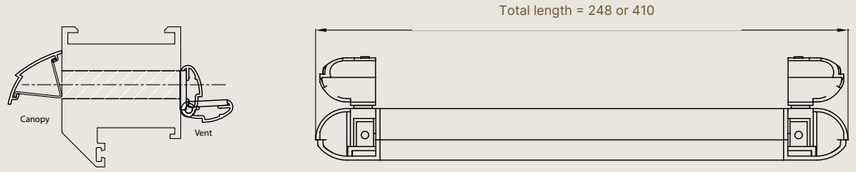



| Technical properties | |
|---|---|
| Installation | Through the window frame |
| Coanda effect | ✓ |
| Thermal break | - |
| Self-regulating | - |
| Insect-proof | - |

| Technical characteristics | | |
|---|---|---|
| **Airflow** | **2500** | **5000** |
| Equivalent area | 2723 mm² | 5229 mm² |
| Q at 1 Pa | 2,1 l/s | 4,2 l/s |
| Q at 1 Pa | 7,6 m³/h | 15,1 m³/h |
| Q at 2 Pa | 3,1 l/s | 6,0 l/s |
| Q at 10 Pa | 7,0 l/s | 13,6 l/s |
| Q at 20 Pa | 10,1 l/s | 19,4 l/s |
| **Sound reduction Dn,e,w (C;Ctr)** | | |
| in open position | 36 (0; 0) dB | 33 (-1; 0) dB |
| in closed position | 51 (-2; -3) dB | 51 (-1; -3) dB |
| **Technical characteristics** | | |
| Controllable internal flap | Continuous adjustment | |
| Control options internal flap | Manual | |
| U value | - | |
| Air leakage at 50 Pa | - | |
| Watertightness in closed position, up to | - | |
| Watertightness in open position, up to | - | |
| **Dimensions** | | |
| Product height | 25 mm | |
| Length* | 248 mm | 410 mm |
| Slotsize opening | 192 × 13 | (172 × 13 to 16) + 10 + (172 × 13 to 16) |

* other lenghts on demand

### Detailed drawing



# PYRACOUST

SLOTVENTS

## Smallest acoustic window vent providing 2500 mm² or 5000 mm² EA

Based on our Pyramid vent, the Pyracoust is the smallest acoustic slotvent (non-self-regulating) responding to the ventilation regulation Part F (England & Wales) providing 2500 mm² or 5000 mm² equivalent area with the best acoustic performances up to 45 dB in open position. The modularity of the acoustic sets provides flexibility for installation and acoustic performance. The external canopy offers excellent weather protection and incorporates a stainless steel insect mesh screen. The slotvent is easy to open and control. The Pyracoust is designed for use with timber, PVC and aluminium window frames.



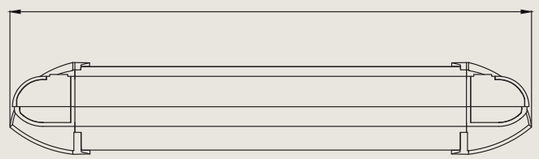

| Technical properties | |
|---|---|
| Installation | Through the window frame |
| Sound absorbing | ✓ |
| Coanda effect | ✓ |
| Thermal break | - |
| Self-regulating | - |
| Insect-proof | ✓ |

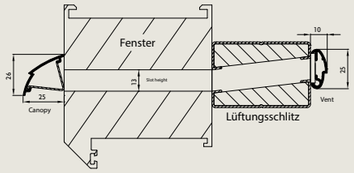
| Technical characteristics | | | | |
|---|---|---|---|---|
| **Airflow** | **2500 + 1 Acoustic module** | **2500 + 2 Acoustic modules** | **5000 + 1 Acoustic module** | **5000 + 2 Acoustic modules** |
| Equivalent area | 2749 mm² | 2736 mm² | 5714 mm² | 5596 mm² |
| Q at 1 Pa | 2,2 l/s | 2,2 l/s | 4,5 l/s | 4,3 l/S |
| Q at 1 Pa | 7,9 m³/h | 7,9 m³/h | 16,2 m³/h | 15,5 m³/h |
| Q at 2 Pa | 3,2 l/s | 3,1 l/s | 6,4 l/s | 6,2 l/s |
| Q at 10 Pa | 7,6 l/S | 7,5 l/s | 14,4 l/s | 14,5 l/s |
| Q at 20 Pa | 11,1 l/s | 11 l/s | 20,5 l/s | 20,8 l/s |
| **Comfort** | | | | |
| Sound reduction Dn,e,w (C;Ctr) | | | | |
| in open position | 42 (-1; -2) dB | 45 (-2; -3) dB | 39 (-1; -2) dB | 42 (-2; -4) dB |
| in closed position | 48 (-1;-3) dB | 50 (-1; -3) dB | 47 (-2; -3) dB | 49 (-2; -4) dB |
| **Technical characteristics** | | | | |
| Controllable internal flap | Continuous adjustment | | | |
| Control options internal flap | Manual | | | |
| U value | - | | | |
| Air leakage at 50 Pa | - | | | |
| Watertightness in closed position, up to | - | | | |
| Watertightness in open position, up to | - | | | |
| **Dimensions** | | | | |
| Product height | 40 mm | | | |
| Length* | 250 mm | | 412 mm | |
| Slotsize opening | 192 × 13 mm | | (172×13) + 10 + (172×13) | |

* other lenghts on demand

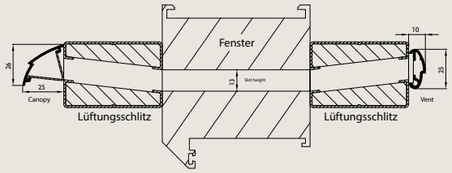
### Detailed drawing

250 or 412






Pyracoust + 1 acoustic module



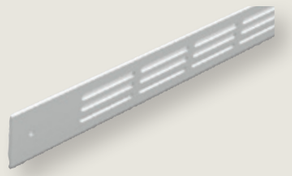

Pyracoust + 2 acoustic modules

# SLOTVENTS

## Interior

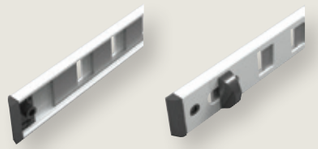
### 478 – Flat grille

| Type | Length (mm) | Height (mm) | Slotsize opening (mm) | Airflow | | | |
|---|---|---|---|---|---|---|---|
| | | | | 1 Pa (l/s) | 2 Pa (l/s) | 2 Pa ($m^3/h$) | Equivalent Area ($mm^2$) |
| **478/1** | 275 | 20 | 230 × 16 | 1,9 | 2,8 | 9,9 | 2453 |
| **478/2** | 375 | 20 | 330 × 16 | 2,8 | 3,9 | 14,2 | 3512 |
| **478/3** | 475 | 20 | (205 × 16) + 20 + (205 × 16) | 3,7 | 5,4 | 19,3 | 4753 |
| **478/4** | 700 | 20 | (315 × 16) + 25 + (315 × 16) | 5,6 | 8,0 | 28,8 | 7119 |



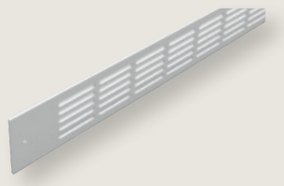
### 485 – Hit and miss vent

| Type | Length (mm) | Height (mm) | Slotsize opening (mm) | Airflow | | | |
|---|---|---|---|---|---|---|---|
| | | | | 1 Pa (l/s) | 2 Pa (l/s) | 2 Pa ($m^3/h$) | Equivalent Area ($mm^2$) |
| **485/1** | 275 | 22 | 230 × 16 | 1,2 | 1,8 | 6,4 | 1551 |
| **485/2** | 375 | 22 | 330 × 16 | 1,9 | 2,7 | 9,9 | 2438 |
| **485/3** | 475 | 22 | (210 × 16) + 20 + (200 × 16) | 2,5 | 3,6 | 13,1 | 3214 |
| **485/4** | 700 | 22 | (310 × 16) + 20 + (325 × 16) | 4,1 | 6,0 | 21,6 | 5203 |



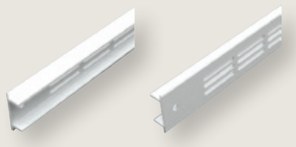
### 488 – Patio grille

| Type | Length (mm) | Height (mm) | Slotsize opening (mm) | Airflow | | | |
|---|---|---|---|---|---|---|---|
| | | | | 1 Pa (l/s) | 2 Pa (l/s) | 2 Pa ($m^3/h$) | Equivalent Area ($mm^2$) |
| **488/1** | 275 | 30 | 250 × 25 | 3,1 | 4,3 | 15,5 | 3899 |
| **488/2** | 375 | 30 | (165 × 25) + 20 + (165 × 25) | 4,3 | 5,9 | 21,4 | 5423 |
| **488/3** | 475 | 30 | (215 × 25) + 20 + (215 × 25) | 4,5 | 6,8 | 24,6 | 5787 |
| **488/4** | 700 | 30 | (325 × 25) + 25 + (325 × 25) | 8,5 | 12,1 | 43,5 | 10839 |



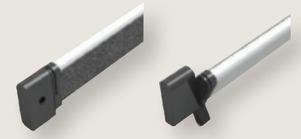
### 489 – Bar grille

| Type | Length (mm) | Height (mm) | Slotsize opening (mm) | Airflow | | | |
|---|---|---|---|---|---|---|---|
| | | | | 1 Pa (l/s) | 2 Pa (l/s) | 2 Pa ($m^3/h$) | Equivalent Area ($mm^2$) |
| **489/1** | 275 | 24 | 237 × 18 | 1,7 | 2,5 | 8,9 | 2202 |
| **489/2** | 375 | 24 | 337 × 18 | 2,2 | 3,2 | 11,7 | 2822 |
| **489/3** | 475 | 24 | (210 × 18) + 17 + (210 × 18) | 3,0 | 4,3 | 15,3 | 3807 |
| **489/4** | 700 | 24 | (320 × 18) + 22 + (320 × 18) | 5,1 | 7,2 | 25,8 | 6477 |



### 787AK – Tipvent

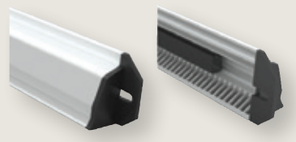
| Type | Length (mm) | Height (mm) | Slotsize opening (mm) | Airflow | | | |
|---|---|---|---|---|---|---|---|
| | | | | 1 Pa (l/s) | 2 Pa (l/s) | 2 Pa ($m^3/h$) | Equivalent Area ($mm^2$) |
| **787AK/1** | 275 | 28 | 245 × 16 | 3,2 | 4,6 | 16,7 | 4127 |
| **787AK/2** | 375 | 28 | 345 × 16 | 4,0 | 5,7 | 20,5 | 5108 |
| **787AK/3** | 475 | 28 | (215 × 16) + 20 + (215 × 16) | 5,1 | 7,3 | 26,3 | 6525 |
| **787AK/4** | 700 | 28 | (325 × 16) + 25 + (325 × 16) | 9,0 | 12,9 | 46,5 | 11455 |



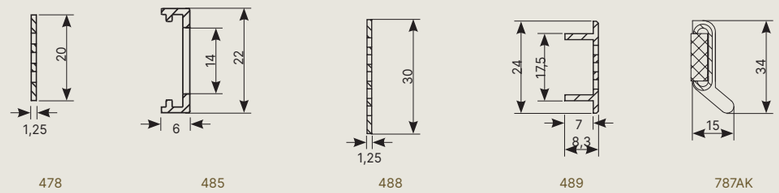
## Exterior

### 471 – Self regulating canopy

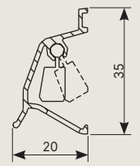
| Type | Length (mm) | Height (mm) | Slotsize opening (mm) | Airflow | | | |
|---|---|---|---|---|---|---|---|
| | | | | 1 Pa (l/s) | 2 Pa (l/s) | 2 Pa ($m^3/h$) | Equivalent Area ($mm^2$) |
| **471/1** | 275 | 35 | 250 × 25 | 1,4 | 2,0 | 7,3 | 1785 |
| **471/2** | 375 | 35 | 350 × 25 | 2,0 | 3,0 | 10,8 | 2527 |
| **471/3** | 475 | 35 | (215 × 25) + 20 + (215 × 25) | 2,3 | 3,7 | 13,2 | 2951 |
| **471/4** | 700 | 35 | (325 × 25) + 20 + (325 × 25) | 4,0 | 6,0 | 21,5 | 5055 |



**Section detail interior slotvents**




**Section detail exterior slotvents**



# COMBINED VENTILATION AND SUN PROTECTION OVERFRAME

With its Fixvent range, Renson offers an aesthetic and comfortable solution that combines windproof sun protection and ventilation.



# FIXVENT® MONO AK

ON THE WINDOW PROFILE

## The perfect combination of ventilation and windproof sun protection

This product, which is installed on the window as a monobloc, can effortlessly be used in newbuild, (major) renovation and other projects. What's more, due to their identical look and feel, Fixvent Mono AK always combines exceptionally with Fixscreen Mono AK to combine windproof sun protection and insect protection in a single product.



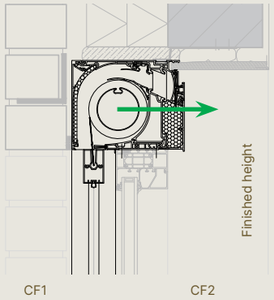

| Technical properties | Fixvent Mono AK | Fixvent Mono AK Ultra | Fixvent Mono AK Extreme |
|---|---|---|---|
| Installation | On top of the window, profiles ranging from 50 to 215 mm | | |
| With thermal break | ✓ | | |
| Self-regulating at 2 Pa | ✓ | | |
| Sound-damping | up to 40 (-1;-4) dB | up to 45 (-1;-5) dB | up to 48 (-2;-5) dB |
| I-Flux | ✓ | | |
| Insect-proof | ✓ | | |

| Ventilation | | | | | | |
|---|---|---|---|---|---|---|
| Airflow | | Small | Medium | Large | X-Large | XX-Large |
| Equivalent Area | Fixvent® Mono AK | 18324 mm²/m | | | | |
| | Fixvent® Mono AK ULTRA | 4836 mm²/m | | | | |
| | Fixvent® Mono AK EXTREME | 2800 mm²/m | | | | |
| Q at 1 Pa | Fixvent® Mono AK | 12,8 l/s/m | | | | |
| | Fixvent® Mono AK ULTRA | 3,7 l/s/m | | | | |
| | Fixvent® Mono AK EXTREME | 2,1 l/s/m | | | | |
| Acoustic damping $D_{new}$ ($C;C_{tr}$) in open position (fabric rolled up) | | | | | | |
| Fixvent® Mono AK | | 33(0;-2)dB | 35(0;-3)dB | 36(-1;-4)dB | 37(-1;-4)dB | 40(-1;-4)dB |
| Fixvent® Mono AK Ultra | | n/a | 38(0;-2)dB | 40(-1;-4)dB | 43(-1;-4)dB | 45(-1;-5)dB |
| Fixvent® Mono AK Extreme | | n/a | 43(0;-3)dB | 43(0;-3)dB | 46(-1;-4)dB | 48(-2;-5)dB |
| Technical details | | | | | | |
| U value (W/m²K) | | | | | | |
| Fixvent® Mono AK | | 1.47 | 0.98 | 0.80 | 0.77 | 0.72 |
| Fixvent® Mono AK Ultra | | n/a | 0.70 | 0.55 | 0.46 | 0.41 |
| Fixvent® Mono AK Extreme | | n/a | 0.62 | 0.47 | 0.38 | 0.32 |
| Airflow leakage in closed position | | < 15% at 50 Pa | | | | |
| Design | | | | | | |
| Head box size (HxD) (mm) | | 132 × 167 | 132 × 197 | 132 × 227 | 132 × 257 | 132 × 287 |
| Compatible window thicknesses | | 50-94 mm | 95-124 mm | 125-154 mm | 155-184 mm | 185-215 mm |
| Connect&Go and Click&Safe | | Easy assembly and removal of the fabric set | | | | |
| Dimensions | | | | | | |
| Single (one fabric - one control) | | 4000 × 3000 mm (12 m²) | | | | |
| Bottom bar | | 30 × 57 mm | | | | |
| Windproofness | | | | | | |
| Wind classification EN13561:2004 | | 3 | | | | |
| Wind tunnel report | | N°113-25809 | | | | |
| Guaranteed wind resistance | | Up to 130 km/h in closed position | | | | |
| Controls | | | | | | |
| Screen | | Motor | | | | |
| Ventilation valve | | Manual, motor, rod | | | | |

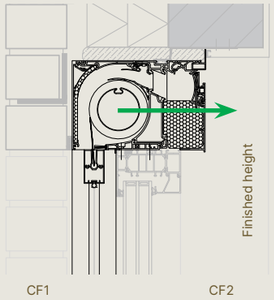
**Please note**
- Small head box not available for Fixvent Mono ULTRA/EXTREME.

## Recessed masonry drawing

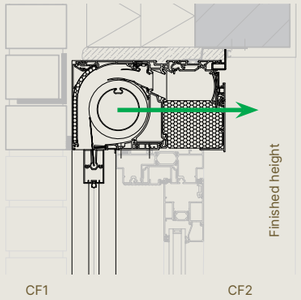
Small
(for window depth 50-94 mm)



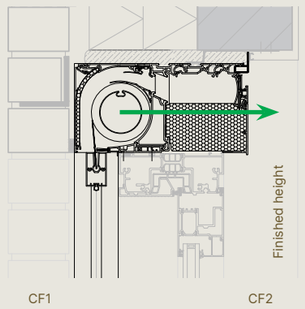

Medium
(for window depth 95-124 mm)



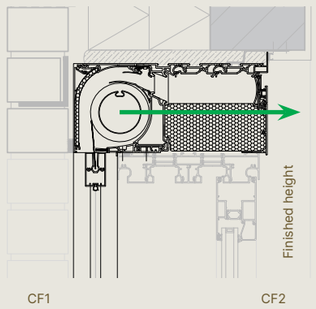

Large
(for window depth 125-154 mm)




X-Large
(for window depth 155-184 mm)




XX-Large
(for window depth 185-215 mm)

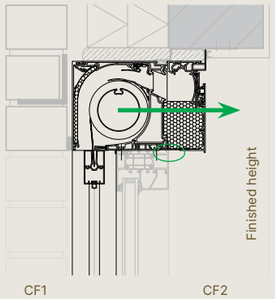





## Improved acoustic comfort or U value

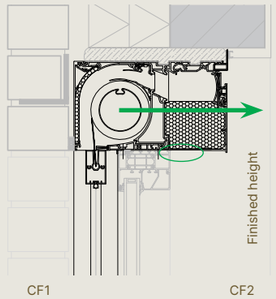
Optional: deeper head box size compared to standard window group for better acoustic comfort or U value

Example 1: Medium on narrower window




(+ extra finishing profile 30 mm)

Example 2: Large on narrower window




(+ extra finishing profile 60 mm)



| Head box type | Dimensions of optional finishing profile |
|---|---|
| Small | no finishing profile |
| Medium | finishing profile 30 mm |
| Large | finishing profile 60 mm |
| X-Large | finishing profile 90 mm |
| XX-Large | finishing profile 120 mm |

**Note:** Fixvent Mono AK Ultra/Extreme is always supplied with a finishing profile as standard.

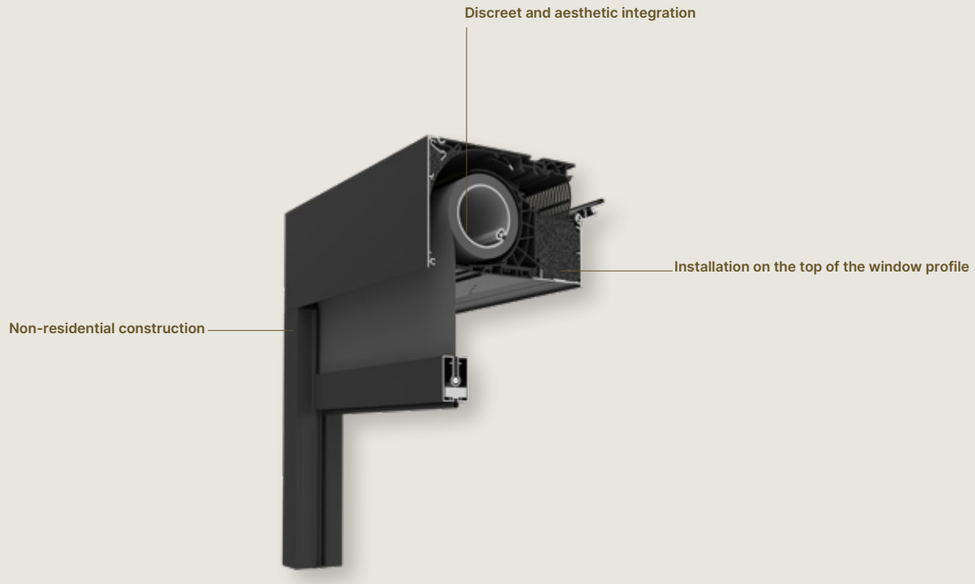
Viewing direction determines choice of left or right cable feed ← Direction in which fabric set should be removed

# FIXVENT® MONO UT

ON THE WINDOW PROFILE

## The perfect combination of ventilation, windproof sun protection and insect protection for non-residential construction

Just like Fixvent Mono AK, Fixvent Mono UT combines windproof sun protection, insect protection and ventilation in a single product. That said, this UT version has been specifically developed for non-residential construction, making it the perfect solution for applications including schools and office buildings that require high air Airflows.



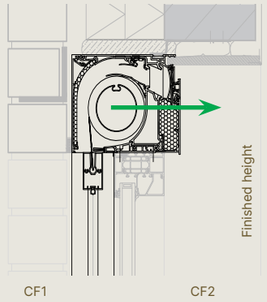

| Technical properties | Fixvent Mono UT | Fixvent Mono UT Ultra |
|---|---|---|
| Installation | On top of the window, profiles ranging from 50 to 215 mm | |
| With thermal break | ✓ | |
| Self-regulating at 2 Pa | ✓ | |
| Sound-damping | up to 40 (-1;-4) dB | up to 45 (-1;-5) dB |
| I-Flux | ✓ | |
| Insect-proof | ✓ | |

| Ventilation | | | | | | |
|---|---|---|---|---|---|---|
| Airflow | | Small | Medium | Large | X-Large | XX-Large |
| Equi-valent Area | Fixvent® Mono UT | 19724 mm²/m | | | | |
| | Fixvent® Mono UT ULTRA | 4836 mm²/m | | | | |
| Q at 1 Pa | Fixvent® Mono UT | 15.5 l/s/m | | | | |
| | Fixvent® Mono UT ULTRA | 3.7 l/s/m | | | | |
| Acoustic damping $D_{new}$ ($C;C_{tr}$) in open position (fabric rolled up) | | | | | | |
| Fixvent® Mono UT | | 33(0;-2)dB | 35(0;-3)dB | 36(-1;-4)dB | 37(-1;-4)dB | 40(-1;-4)dB |
| Fixvent® Mono UT Ultra | | n/a | 38(0;-2)dB | 40(-1;-4)dB | 43(-1;-4)dB | 45(-1;-5)dB |
| Technical details | | | | | | |
| U value (W/m²K) | | | | | | |
| Fixvent® Mono UT | | 1.47 | 0.98 | 0.80 | 0.77 | 0.72 |
| Fixvent® Mono UT Ultra | | n/a | 0.70 | 0.55 | 0.46 | 0.41 |
| Leakage flow in closed position | | < 15% at 50 Pa | | | | |
| Design | | Small | Medium | Large | X-Large | XX-Large |
| Head box size (HxD) (mm) | | 132 × 167 | 132 × 197 | 132 × 227 | 132 × 257 | 132 × 287 |
| Compatible window thicknesses | | 50-94 mm | 95-124 mm | 125-154 mm | 155-184 mm | 185-215 mm |
| Connect&Go and Click&Safe | | Easy assembly and removal of the fabric set | | | | |
| Dimensions | | | | | | |
| Single (one fabric - one control) | | 4000 × 3000 mm (12 m²) | | | | |
| Bottom bar (D x H) | | 30 × 57 mm | | | | |
| Windproofness | | | | | | |
| Wind classification EN13561:2004 | | 3 | | | | |
| Wind tunnel report | | N°113-25809 | | | | |
| Guaranteed wind resistance | | Up to 130 km/h in closed position | | | | |
| Controls | | | | | | |
| Screen | | Motor | | | | |
| Ventilation valve | | Manual, motor, rod | | | | |

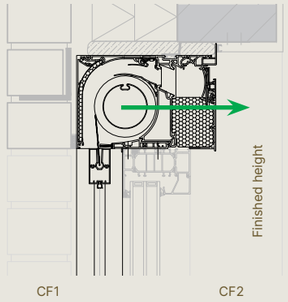
**Please note**
- Small head box not available for Fixvent Mono UT ULTRA.

## Recessed masonry drawing

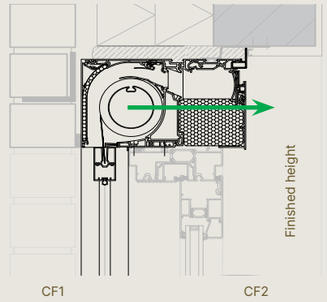
Small
(for window depth 50-94 mm)



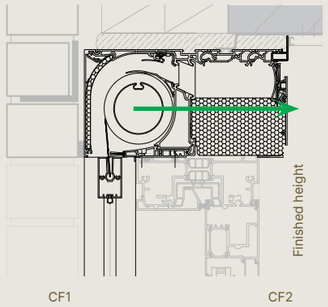

Medium
(for window depth 95-124 mm)



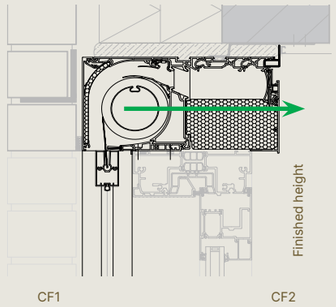

Large
(for window depth 125-154 mm)




X-Large
(for window depth 155-184 mm)




XX-Large
(for window depth 185-215 mm)

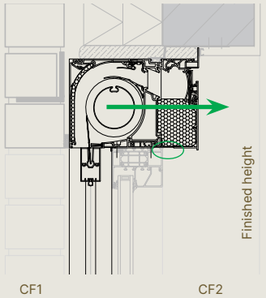





## Improved acoustic comfort or U value

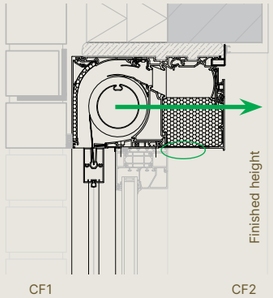
Optional: deeper head box size compared to standard window group for better acoustic comfort or U value

Example 1: Medium on narrower window




(+ extra finishing profile 30 mm)

Example 2: Large on narrower window




(+ extra finishing profile 60 mm)



| Head box type | Dimensions of optional finishing profile |
|---|---|
| Small | no finishing profile |
| Medium | finishing profile 30 mm |
| Large | finishing profile 60 mm |
| X-Large | finishing profile 90 mm |
| XX-Large | finishing profile 120 mm |

**Note:** Fixvent Mono UT Ultra is always supplied with a finishing profile as standard.

Viewing direction determines choice of left or right cable feed → Direction in which fabric set should be removed



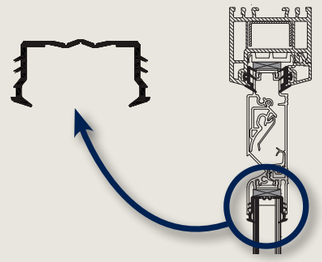
# GENERAL

## GLAZING GASKETS

For the placement of glazed-in vents on the glass, Renson recommends specially designed glazing gaskets:

- No. 019, colour: black, for glass thickness 36-44 mm
- No. 029, colour: black, for glass thickness 28-36 mm
- No. 034, colour: grey, for glass thickness 20-28 mm
- No. 039, colour: black, for glass thickness 20-28 mm

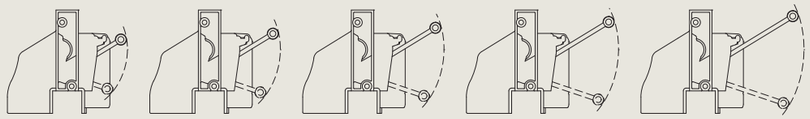
**Glazing gaskets**



## POSSIBLE CONTROLS

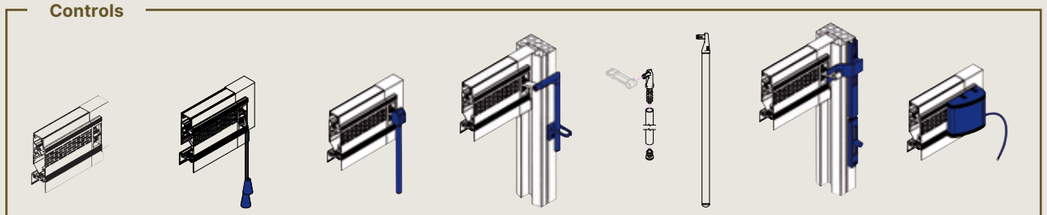
- Manual control: the inner valve can be opened/closed manually (e.g. Invisivent). Levers are available in lengths of 30, 40, 50, 60 or 70 mm.

**Levers**




- Cord control: the standard length for cord control is 1000 mm, other dimensions are available upon request.
- Rod control: the standard length for rod control is 1000 mm, other dimensions are available upon request. The rod can be powder coated in any RAL colour. A hook-up rod, a transmission rod and a sliding knob are all possible.
- Motor control: possible using an 'ON/OFF' or '0 – 10 V' switch (for home automation) switch. Standard cable length: 3 m (except for THL100(V)).
- Not all control options are possible for all products.

**Controls**




## FINISHING

- Interior and exterior profile material: extruded AlMgSi 0.5 aluminium
- Interior and exterior profile finishing: bronze or natural colour anodised (E6/EV1, except Endura Twist and the Sonovent range) or powder coated in any possible RAL colour. Dual colour possible.
- As standard, the profile lengths are pre-treated in accordance with Seaside Quality A
- Pre-treatment (pre-anodisation) is recommended for installation in a very aggressive environment such as the coastal region, industrial area
- Thermal break: extruded PVC
- End cap material: ASA polymer type Luran S (true colour, weather and UV resistant)
- End cap colour:
  - The end caps for window vents on the window profile or on the glass are available in several standard colours, as 'standard coloured-core end cap colours'. Depending on the product, the coloured-core end cap colours may differ.
  - The end caps on Sliding vents are only available in black.
  - End caps can always be wet coated in a colour of your choice, subject to a surcharge.

## MAINTENANCE

Nearly all Renson® window vents on the window profile are fitted with a removable inner profile, which makes it possible to clean the vent quickly and easily using a damp cloth or vacuum cleaner. We recommend cleaning window vents at least once a year. The aluminium interior and exterior profiles can be cleaned using a damp cloth and non-abrasive cleaning product. Rinse well with clean water.

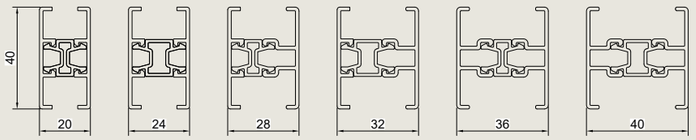


## TRANSOM PROFILES

A transom profile (height 40 mm) is available for window vents installed at transom. Our transom profiles are developed to be cut to length quickly and easily and can also be customised. These profiles are available in their natural colour or can be coated in any Renson colour.

For THM90$^{EVO}$, Renson® has developed special models that do not require any transom profiles: THM90PB$^{EVO}$ for installation below the window and THM90TR$^{EVO}$ for installation in the glass between profiles (at transom).

**Transom profiles**







Variavent with a 40 mm transom profile

## TESTING AND STANDARDS

Renson products are manufactured, compliant and/or tested to the following standards: EN ISO 140-10, EN ISO 717-1, EN 1026, EN 1027, EN 13141-1, EN 12020-2, EN AW 6063 T66, NBN D50-001, EN 10077-2, DIN 16491, prEN 1627, prEN 1628, prEN 1629 and prEN 1630. Waterproofness and windtightness is tested to EN1027 and EN1026 standards.

## INTELLECTUAL PROPERTY

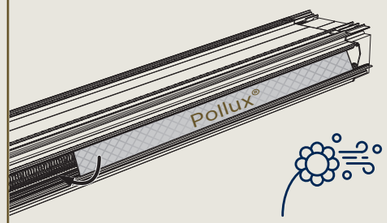
Our innovative range of window vents is protected by multiple intellectual property rights.

## POLLUX®: OPTIONAL FINE DUST AND POLLEN FILTER

If your customer is living in an environment with excessive fine dust (such as near a motorway or industrial area), or if they suffer from hay fever (caused by pollen), an optional Pollux filter in their Renson® window vent can filter out any fine dust and pollen while maintaining a constant supply of fresh air.

A Pollux filter can be added to the following Renson window vents:

**Pollux®**




| | Pollux type 01 | Pollux type 02 | Pollux type 03 | Pollux type 04 |
|---|---|---|---|---|
| AR60 | ✓ | - | - | - |
| Variavent | - | ✓ | - | - |
| Sonovent | - | - | ✓ | - |
| Sonovent compact | - | ✓ | - | - |
| Invisivent AIR / COMFORT | - | - | - | ✓ |







# AMBASSADORSHIP

You are convinced about our products and enthusiastically share this with the world. In turn, we are proud that you are the connecting factor between Renson and your customers. Just for you, we created the Renson Ambassadorship: a long-term partnership.
This quality label guarantees your customers that you are a reliable expert in ventilation with excellent product knowledge and perfect service, from installation to the first service visit.

What does your Ambassadorship stand for?

- You share your passion for Renson with a strong professional network.
- Every two years, you will be invited to our Ambassador Days where you can network with your colleagues to your heart's content.
- You are among the first to gain access to innovative and market-specific products and solutions.
- You have access to exclusive promotions for end customers, supported by media campaigns (online/offline).
- Through our lead tool, you will get one-to-one leads per region, which we receive via our communications, trade shows and events.
- We put you in the spotlight regularly and support you through co-branding to develop the Renson brand in your region.
- We promote you to your end customers.
- You may wear the exclusive quality label of Renson Ambassador.

## WANT TO JOIN OUR RENSON AMBASSADOR FAMILY? GET IN TOUCH WITH YOUR RENSON CONTACT.

RENSON®

All photos shown are solely for illustration purposes and are a snapshot of the usage situation. The actual product may vary due to adjustments to the product. Renson® reserves the right to make technical changes to the products shown.
The most recent brochures are available for download at **www.renson.net**

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