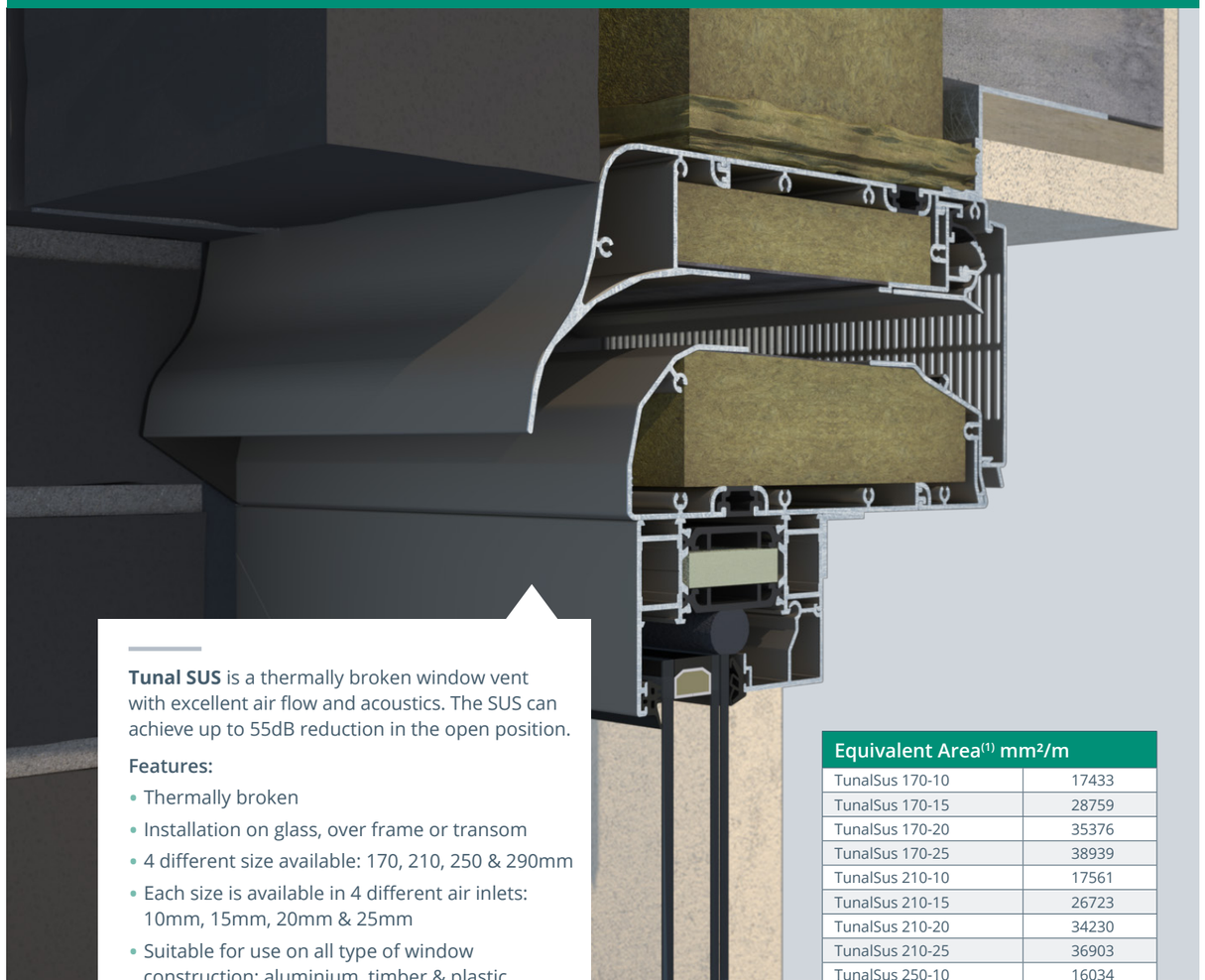
airvent

TUNAL SUS

Acoustic window ventilation on the frame



Tunal SUS is a thermally broken window vent with excellent air flow and acoustics. The SUS can achieve up to 55dB reduction in the open position.

Features:

- Thermally broken
- Installation on glass, over frame or transom
- 4 different size available: 170, 210, 250 & 290mm
- Each size is available in 4 different air inlets: 10mm, 15mm, 20mm & 25mm
- Suitable for use on all type of window construction: aluminium, timber & plastic
- Inner profile acts as an insect grille. Easily removed for cleaning
- Manufactured from extruded aluminium

tunal

Equivalent Area(1) mm²/m	
TunalSus 170-10	17433
TunalSus 170-15	28759
TunalSus 170-20	35376
TunalSus 170-25	38939
TunalSus 210-10	17561
TunalSus 210-15	26723
TunalSus 210-20	34230
TunalSus 210-25	36903
TunalSus 250-10	16034
TunalSus 250-15	25196
TunalSus 250-20	33976
TunalSus 250-25	36139
TunalSus 290-10	15270
TunalSus 290-15	25323
TunalSus 290-20	33721
TunalSus 290-25	34103

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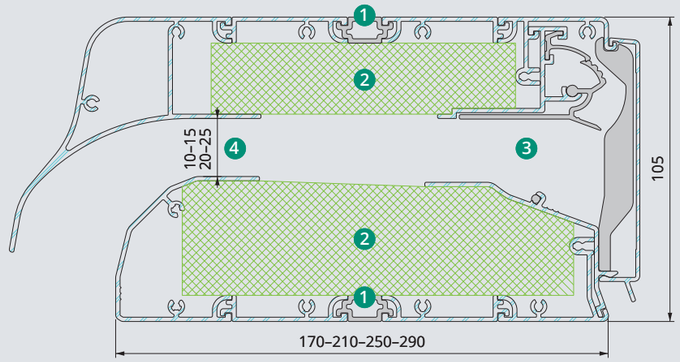
The Principle

1 Thermal break, can be positioned in different places depending on application on window, glass or transom

2 Acoustic insulation for optimal noise reduction

3 Adjustable air inlet allowing for 5 different airflow positions

4 Air inlets available in sizes ranging from 10mm–25mm



TunalSus	170	210	250	290
Air flow air inlet 10 mm Q at 1 Pa q_1 at 2 Pa	13.7 dm³/s/m 74 m³/h/m	13.8 dm³/s/m 75 m³/h/m	12.6 dm³/s/m 74 m³/h/m	12.0 dm³/s/m 67 m³/h/m
Air flow air inlet 15 mm Q at 1 Pa q_1 at 2 Pa	22.6 dm³/s/m 119 m³/h/m	21.0 dm³/s/m 117 m³/h/m	19.8 dm³/s/m 112 m³/h/m	19.9 dm³/s/m 110 m³/h/m
Air flow air inlet 20 mm Q at 1 Pa q_1 at 2 Pa	27.8 dm³/s/m 144 m³/h/m	26.9 dm³/s/m 146 m³/h/m	26.7 dm³/s/m 142 m³/h/m	26.5 dm³/s/m 140 m³/h/m
Air flow air inlet 25 mm Q at 1 Pa q_1 at 2 Pa	30.6 dm³/s/m 163 m³/h/m	29.0 dm³/s/m 159 m³/h/m	28.4 dm³/s/m 159 m³/h/m	26.8 dm³/s/m 155 m³/h/m
L_0 at 2 Pa (2)	0.03 m			
Control options	5 different positions			
Self-regulation	No			
U_f-value	4.5 W/m².K	4.6 W/m².K	4.6 W/m².K	4.7 W/m².K
Acoustic insulation Dn, e, w (C, Ctr) , Air inlet 10 mm	Open 42 (-1;-3) dB Closed 51 (-1;-4) dB	Open 46 (-1;-4) dB Closed 51 (-1;-4) dB	Open 51 (-1;-6) dB Closed 55 (-2;-6) dB	Open 55 (-1;-5) dB Closed 59 (-2;-6) dB
Acoustic insulation Dn, e, w (C, Ctr) , Air inlet 15 mm	Open 40 (-1;-3) dB Closed 51 (-1;-4) dB	Open 43 (-1;-3) dB Closed 55 (-1;-4) dB	Open 46 (-2;-5) dB Closed 55 (-1;-5) dB	Open 48 (-1;-5) dB Closed 56 (-2;-6) dB
Acoustic insulation Dn, e, w (C, Ctr) , Air inlet 20 mm	Open 37 (0;-2) dB Closed 48 (-2;-4) dB	Open 40 (-1;-2) dB Closed 52 (-2;-4) dB	Open 43 (-1;-4) dB Closed 53 (-1;-4) dB	Open 46 (-1;-5) dB Closed 55 (-3;-5) dB
Acoustic insulation Dn, e, w (C, Ctr) , Air inlet 25 mm	Open 35 (0;-2) dB Closed 45 (-1;-3) dB	Open 38 (-1;-2) dB Closed 55 (-1;-4) dB	Open 41 (-1;-4) dB Closed 50 (-1;-4) dB	Open 43 (-1;-5) dB Closed 53 (-1;-4) dB
Water resistance - In closed position - In open position	750 Pa 50 Pa			
Leak flow in closed position at 50 Pa	<15%			
Insect grille	Yes			
Installation height	105 mm			
Maximum dimensions under warranty	2500 mm on transom/frame - 2000 mm on glass			

(1) Value for non self regulating version, according to EN 13141-1
(2) L = total length vent – end cap dimension

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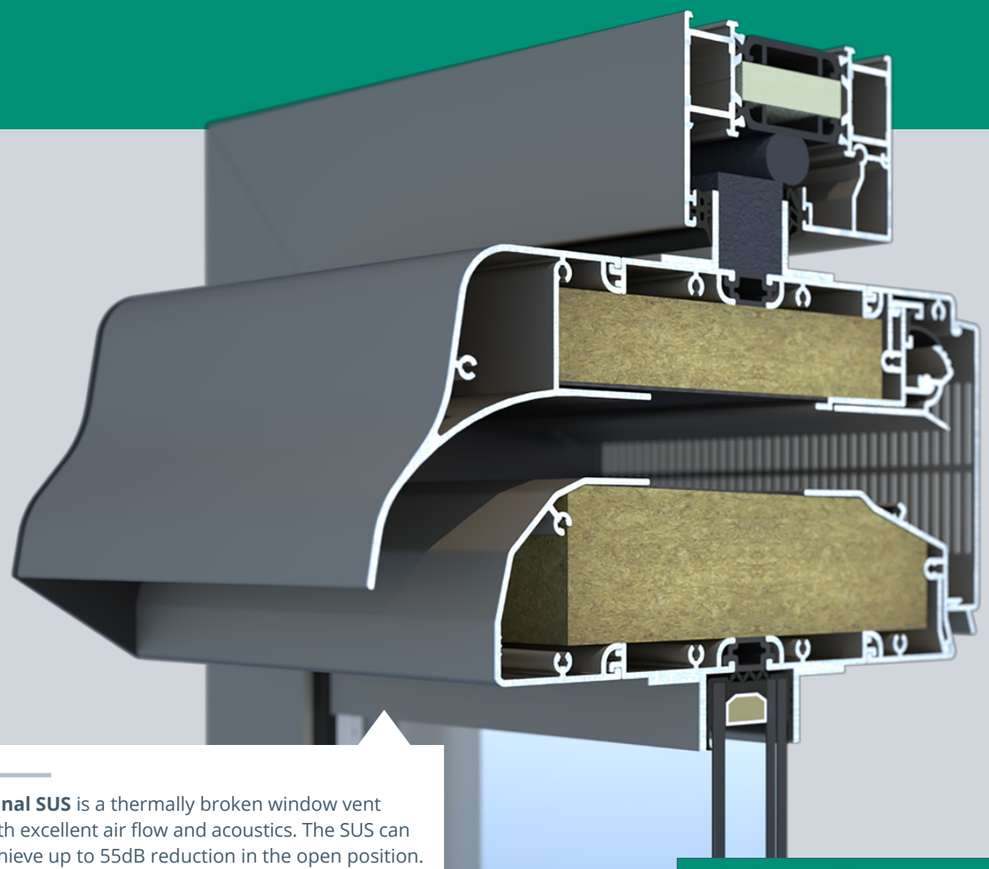
Acoustic window ventilation on the glass



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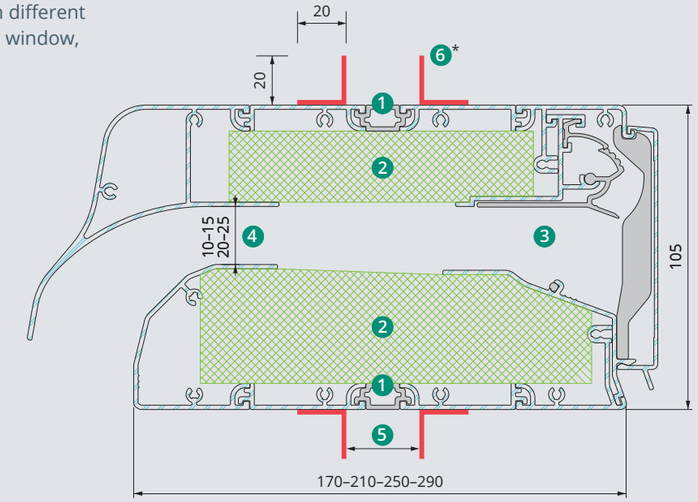
The Principle

1. Thermal break, can be positioned in different places depending on application on window, glass or transom
2. Acoustic insulation for optimal noise reduction
3. Adjustable air inlet allowing for 5 different airflow positions
4. Air inlets available in sizes ranging from 10mm–25mm
5. Glass thickness profile for over glass option can be sized to suit your requirements
6. 'L' profiles for over the glass option
   *Standard 'L' profile measures 20mm x 20mm
   Other configurations are available



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L_0 at 2 Pa (2)	0.03 m			
Control options	5 different positions			
Self-regulation	No			
U_f-value	4.5 W/m².K	4.6 W/m².K	4.6 W/m².K	4.7 W/m².K
Acoustic insulation Dn, e, w (C, Ctr) , Air inlet 10 mm	Open 42 (-1;-3) dB Closed 51 (-1;-4) dB	Open 46 (-1;-4) dB Closed 51 (-1;-4) dB	Open 51 (-1;-6) dB Closed 55 (-2;-6) dB	Open 55 (-1;-5) dB Closed 59 (-2;-6) dB
Acoustic insulation Dn, e, w (C, Ctr) , Air inlet 15 mm	Open 40 (-1;-3) dB Closed 51 (-1;-4) dB	Open 43 (-1;-3) dB Closed 55 (-1;-4) dB	Open 46 (-2;-5) dB Closed 55 (-1;-5) dB	Open 48 (-1;-5) dB Closed 56 (-2;-6) dB
Acoustic insulation Dn, e, w (C, Ctr) , Air inlet 20 mm	Open 37 (0;-2) dB Closed 48 (-2;-4) dB	Open 40 (-1;-2) dB Closed 52 (-2;-4) dB	Open 43 (-1;-4) dB Closed 53 (-1;-4) dB	Open 46 (-1;-5) dB Closed 55 (-3;-5) dB
Acoustic insulation Dn, e, w (C, Ctr) , Air inlet 25 mm	Open 35 (0;-2) dB Closed 45 (-1;-3) dB	Open 38 (-1;-2) dB Closed 55 (-1;-4) dB	Open 41 (-1;-4) dB Closed 50 (-1;-4) dB	Open 43 (-1;-5) dB Closed 53 (-1;-4) dB
Water resistance - In closed position - In open position	750 Pa 50 Pa			
Leak flow in closed position at 50 Pa	<15%			
Insect grille	Yes			
Installation height	105 mm			
Maximum dimensions under warranty	2500 mm on transom/frame - 2000 mm on glass			

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