AAC125HP – Rytons Super Acoustic Controllable LookRyt® AirCore®

Background Ventilation - Rytons Controllable Super Acoustic LookRyt AirCore Range

from Rytons Building Products

01:39

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Category: Acoustic AirCore and AirLiner Sets (http://rts.vents.co.uk/blog/products/acoustic-aircore-and-airliner-sets-background/)

General Details

AAC125HP – Rytons Super Acoustic Controllable LookRyt AirCore

- **Retro-fitted core ventilator for background room ventilation.**
- **Allows the introduction of fresh outside air into the room to disperse moisture, odours and other airborne pollutants.**
- **Use in noisy areas to reduce the amount of noise entering the building for a more peaceful environment.**
- Unique draught reducing panel manually adjusted with an easy push/pull or tilt action allowing air to be controlled as required.
- Paint or wallpaper the panel to match room décor for a discreet appearance.
- External water baffle prevents transfer of water across the cavity.
- External grille U.V. stabilised to slow down the effects of sunlight.
- Patent No. GB 2523676.

Calculate your background venting requirements here. (http://rts.vents.co.uk/blog/rytons-background-ventilation-calculator/)

Equivalent Area:

- 8,500mm² (85cm²) equivalent area (tested to BS EN 13141-1:2004 and independently verified by the BRE).

Size:

- External grille: 166mm L x 160mm H.
- Tube: 127mm (5") Dia. x 358mm L.
- LookRyt panel: 172mm L x 172mm H.

Colours:

- Terracotta: AAC125HPTC.
- Buff/Sand: AAC125HPBS.
- White: AAC125HPWH.
- LookRyt panel: Magnolia (may be painted or wallpapered to match décor).

Composition:

- External grille: U.V. stabilised high impact polystyrene.
- Tube: High impact polystyrene containing sound absorbent foam lining (tube contains recycled plastic). Softening point: 70°C (unlined). Melting point: 120°C (unlined).
- LookRyt panel: High impact styrene. Melting point: 160-180°C (unlined).

Handling Information:

- Box quantity: 1 set.
- Box size: 44cm W x 19cm H x 22.5cm D.
- Box weight: 0.756kg.

Reference Material:

- Measurement of airborne sound insulation was made in accordance with BS EN 20140-10: 1992.
- Single number quantities were calculated in accordance with BS EN ISO 717-1:1997.
- Equivalent area tested to BS EN 13141-1:2004 and independently verified by the BRE.
- Also refer to: The Building Regulations 2000, Approved Document F,
- The Building (Scotland) Regulations, Mandatory Standard 3.14,
- The Building Regulations (Northern Ireland) 2000, Technical Booklet K,
- British Standard BS 5250.

Questions & Answers:

- **Will installing more than one vent to achieve a greater free area have an effect on the acoustic performance?** We asked the BRE who said "The performance of the ventilator will not degrade when you put in more of them. The composite sound insulation performance of the façade will degrade if you increase the number of ventilators, assuming that they are one of the weaker links."
- **Will the vent reduce sound from inside to outside as well as from outside to inside?** The BRE has advised us that it's reasonable to assume that 'reciprocity' applies to the vents. That is, the third octave values for sound reduction index are the same in both directions (out to in and in to out).

NBSPlus (http://www.theNBS.com/solutions/index.asp?ref=Mnfr&id=Rytons) product specifications by NBS (http://www.theNBS.com/solutions/index.asp?ref=Mnfr&id=Rytons)

- Rytons Super Acoustic Controllable LookRyt® AirCore® - Plastic retro-fitted acoustic core ventilator.

www.theNBS.com/solutions (http://www.theNBS.com/solutions/index.asp?ref=Mnfr&id=Rytons)

Got a question? Call 01536 511874 or email us here. (http://rts.vents.co.uk/blog/got-a-question/)

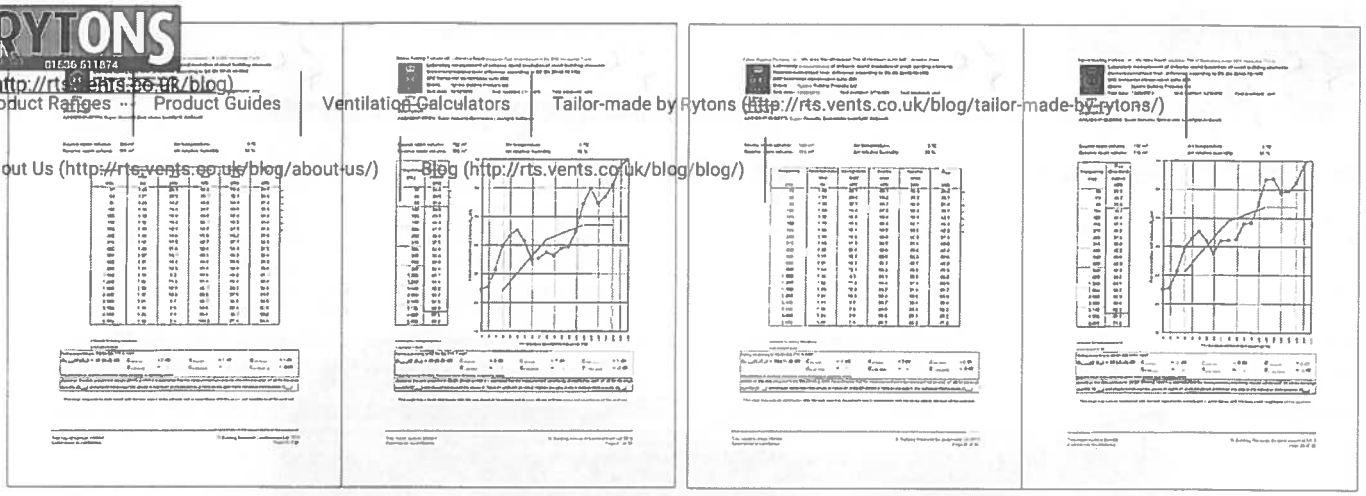
BRE Test Report

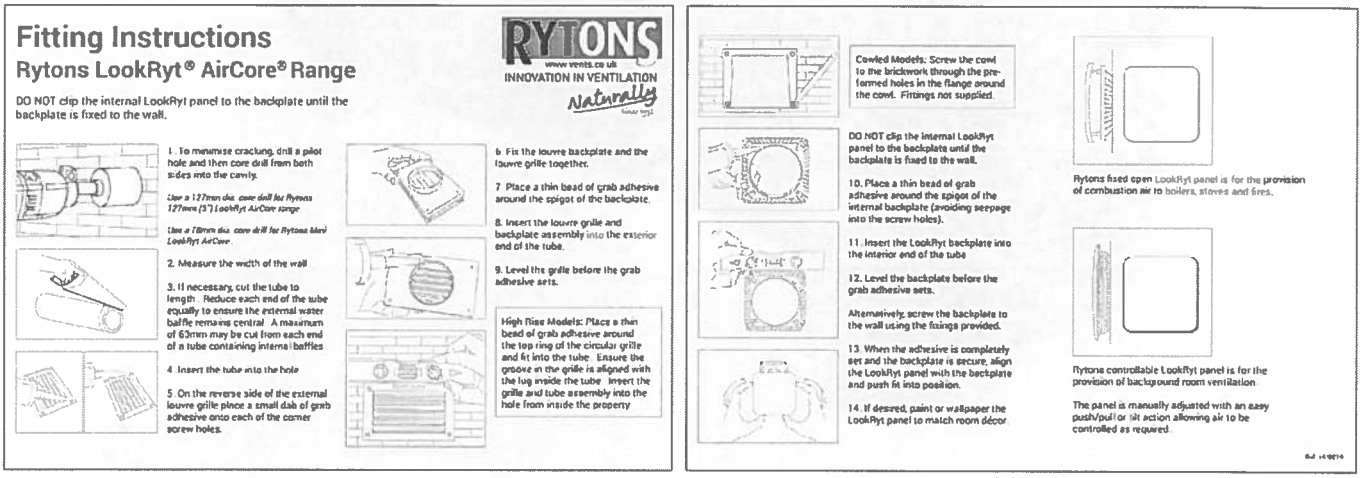
(http://www.vents.co.uk/pdf/BRE_Test_Report_Rytons_AAC125HP.pdf)

Fitting Instruction Sheet

(http://www.vents.co.uk/pdf/rytons_lookryt_fitting_guide.pdf)

Related Products





Fitting Instructions

Rytons LookRyt® AirCore® Range

RYTONS www.vents.co.uk INNOVATION IN VENTILATION Naturally

DO NOT clip the internal LookRyt panel to the backplate until the backplate is fixed to the wall.

1. To minimise cracking, drill a pilot hole and then core drill from both sides into the cavity.

Use a 127mm dia. core drill for Rytons 127mm (5") LookRyt AirCore range.

Use a 78mm dia. core drill for Rytons Mini LookRyt AirCore.

2. Measure the width of the wall.

3. If necessary, cut the tube to length. Reduce each end of the tube equally to ensure the external water baffle remains central. A maximum of 50mm may be cut from each end of a tube containing internal baffles.

4. Insert the tube into the hole.

5. On the reverse side of the external louvre grille place a small dab of grab adhesive onto each of the corner screw holes.

6. Fit the louvre backplate and the louvre grille together.

7. Place a thin bead of grab adhesive around the spigot of the backplate.

8. Insert the louvre grille and backplate assembly into the exterior end of the tube.

9. Level the grille before the grab adhesive sets.

High Rise Models: Place a thin bead of grab adhesive around the top ring of the circular grille and fit into the tube. Ensure the groove on the grille is aligned with the lug inside the tube. Invert the grille and tube assembly into the hole from inside the property.

Cowled Models: Screw the cowl to the brickwork through the pre-formed holes in the flange around the cowl. Fittings not supplied.

DO NOT clip the internal LookRyt panel to the backplate until the backplate is fixed to the wall.

10. Place a thin bead of grab adhesive around the spigot of the internal backplate (avoiding seepage into the screw holes).

11. Insert the LookRyt backplate into the interior end of the tube.

12. Level the backplate before the grab adhesive sets.

Alternatively, screw the backplate to the wall using the fixings provided.

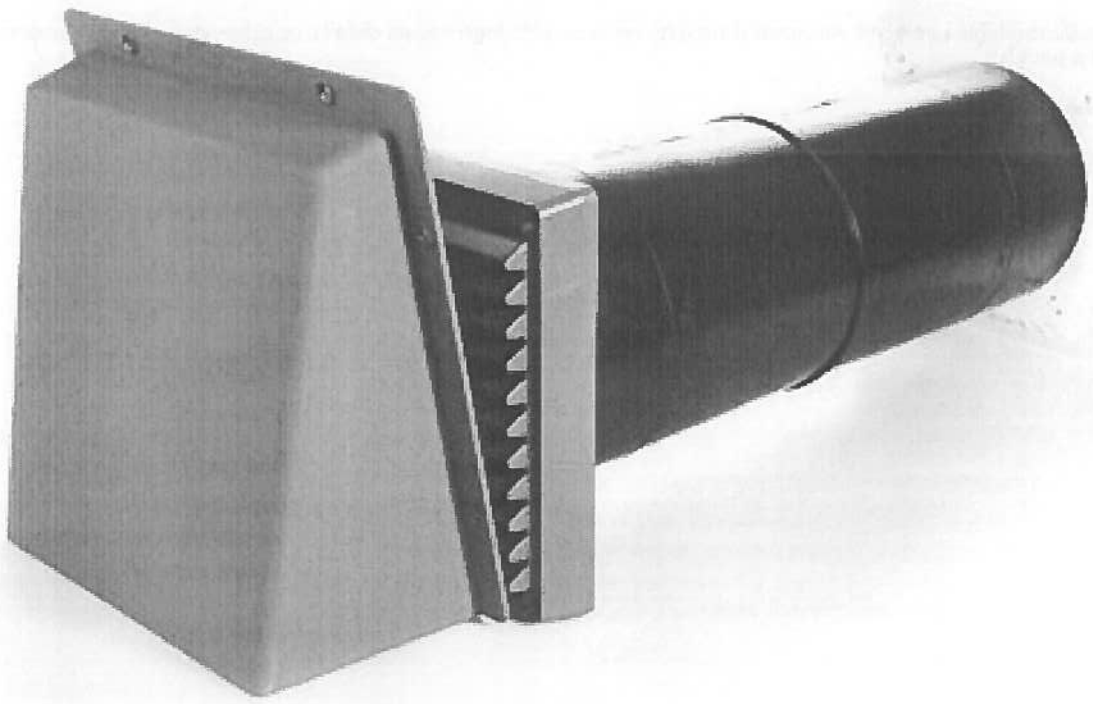
13. When the adhesive is completely set and the backplate is secure, align the LookRyt panel with the backplate and push fit into position.

14. If desired, paint or wallpaper the LookRyt panel to match room décor.

Rytons fixed open LookRyt panel is for the provision of combustion air to boilers, stoves and fires.

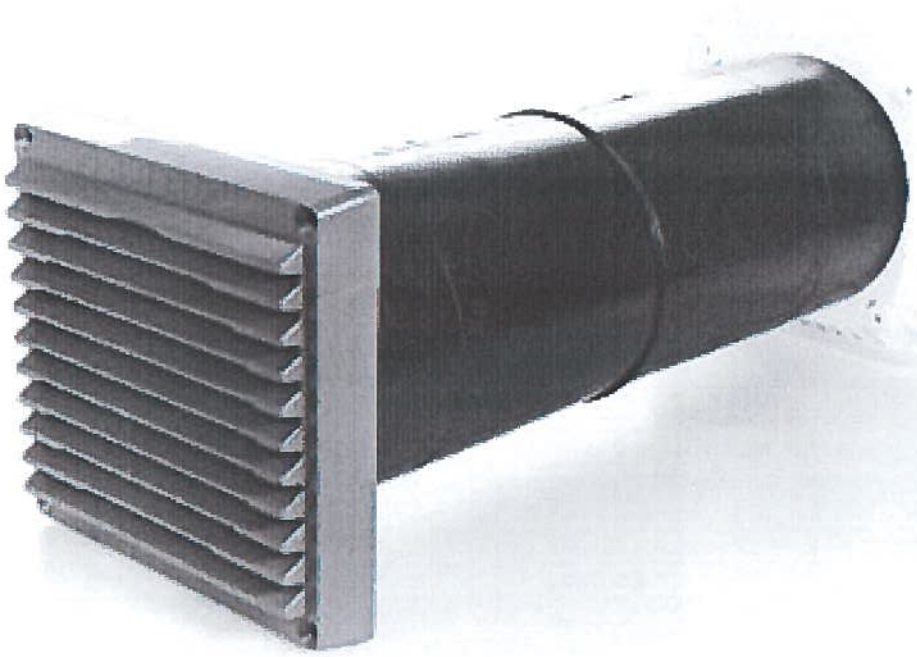
Rytons controllable LookRyt panel is for the provision of background room ventilation.

The panel is manually adjusted with an easy push/pull or tilt action allowing air to be controlled as required.



AAC125HPCWL – Rytons Cowled Super Acoustic Controllable LookRyt® AirCore® (http://rts.vents.co.uk/blog/product-details/aac125hpcw-rytons-cowled-super-acoustic-controllable-lookryt-aircore/)

osed (Dn,e,w)
quivalent Area
(http://rts.vents.co.uk/blog)



AC10HP – Rytons Controllable LookRyt® AirCore® (http://rts.vents.co.uk/blog/product-details/ac10hp-rytons-125mm-aircore-with-controllable-lookryt-panel/)

7,500mm² (75cm²) Equivalent Area

› Details (http://rts.vents.co.uk/blog/product-details/ac10hp-rytons-125mm-aircore-with-controllable-lookryt-panel/)

Fitting Instructions

Rytons LookRyt® AirCore® Range

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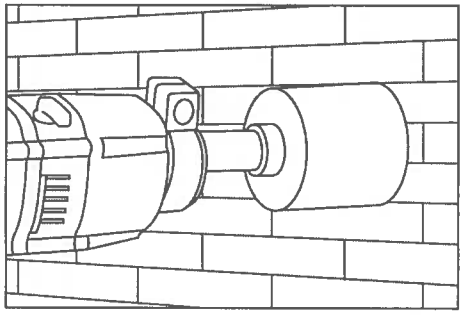
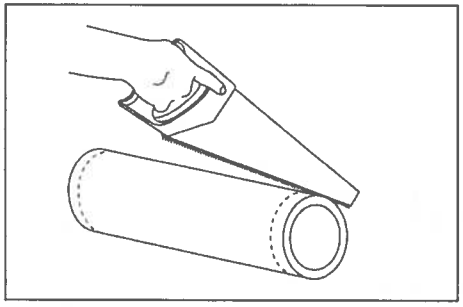
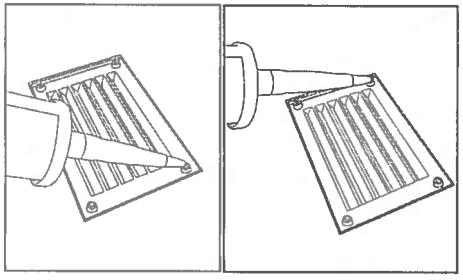
DO NOT clip the internal LookRyt panel to the backplate until the backplate is fixed to the wall.







1. To minimise cracking, drill a pilot hole and then core drill from both sides into the cavity.

Use a 127mm dia. core drill for Rytons 127mm (5") LookRyt AirCore range.

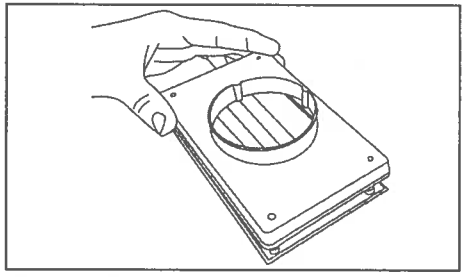
Use a 78mm dia. core drill for Rytons Mini LookRyt AirCore.

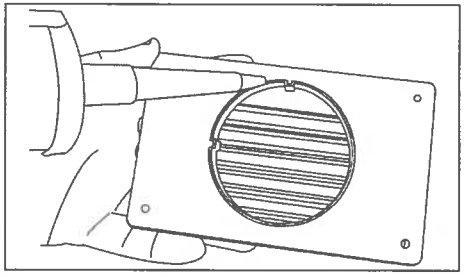
2. Measure the width of the wall.

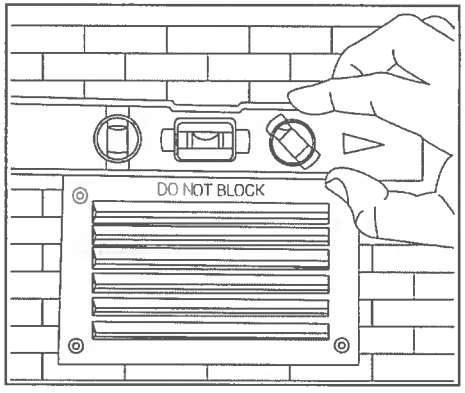
3. If necessary, cut the tube to length. Reduce each end of the tube equally to ensure the external water baffle remains central. A maximum of 63mm may be cut from each end of a tube containing internal baffles.

4. Insert the tube into the hole.

5. On the reverse side of the external louvre grille place a small dab of grab adhesive onto each of the corner screw holes.







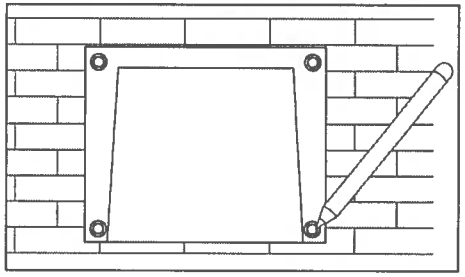
6. Fix the louvre backplate and the louvre grille together.

7. Place a thin bead of grab adhesive around the spigot of the backplate.

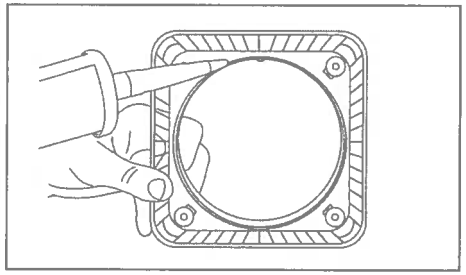
8. Insert the louvre grille and backplate assembly into the exterior end of the tube.

9. Level the grille before the grab adhesive sets.

High Rise Models: Place a thin bead of grab adhesive around the top ring of the circular grille and fit into the tube. Ensure the groove in the grille is aligned with the lug inside the tube. Insert the grille and tube assembly into the hole from inside the property.

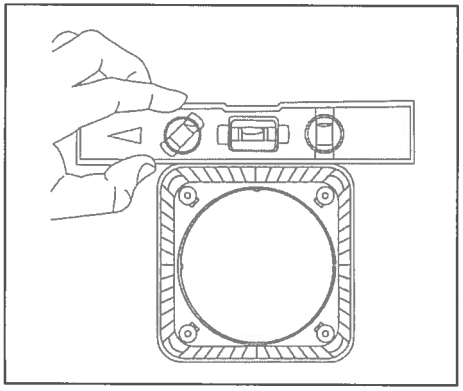


Cowled Models: Screw the cowl to the brickwork through the pre-formed holes in the flange around the cowl. Fittings not supplied.



DO NOT clip the internal LookRyt panel to the backplate until the backplate is fixed to the wall.

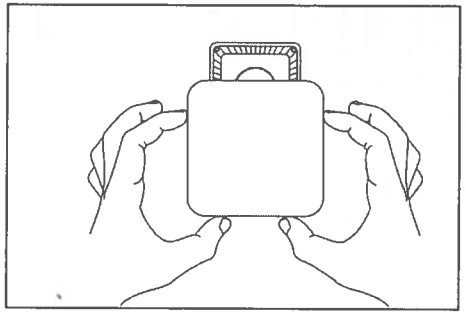
10. Place a thin bead of grab adhesive around the spigot of the internal backplate (avoiding seepage into the screw holes).



11. Insert the LookRyt backplate into the interior end of the tube.

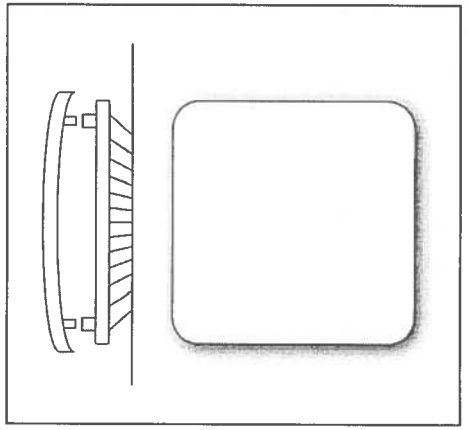
12. Level the backplate before the grab adhesive sets.

Alternatively, screw the backplate to the wall using the fixings provided.

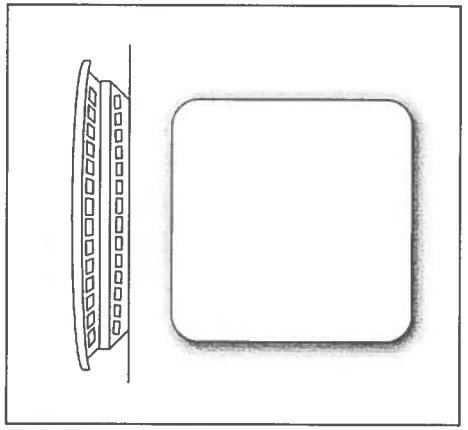


13. When the adhesive is **completely set** and the backplate is secure, align the LookRyt panel with the backplate and push fit into position.

14. If desired, paint or wallpaper the LookRyt panel to match room décor.



Rytons fixed open LookRyt panel is for the provision of combustion air to boilers, stoves and fires.



Rytons controllable LookRyt panel is for the provision of background room ventilation.

The panel is manually adjusted with an easy push/pull or tilt action allowing air to be controlled as required.

0578

Laboratory measurement of airborne sound insulation of small building elements
Element-normalized level difference according to BS EN 20140-10:1992
BRE horizontal transmission suite (B9)
Client: Rytons Building Products Ltd
Test date: 12/02/2013 **Test number:** L112-079 **Test element:** vent

Filler wall area: 9.8 m²
Description:
AAC125HP-OPEN- Super Acoustic Controllable LookRyt® AirCore®

Source room volume: 130 m³ **Air temperature:** 9 °C
Receive room volume: 115 m³ **Air relative humidity:** 55 %

Frequency (Hz)	Reverberation time (s)	Background level (dB)	Source level (dB)	Receive level (dB)	$D_{n,e}$ (dB)	
50	1.68	23.1	92.6	68.9	24.6	o
63	1.51	20.1	98.0	72.8	25.6	o
80	1.28	17.7	96.6	64.9	31.4	o
100	1.56	19.4	98.0	58.6	39.9	o
125	1.72	16.6	98.6	56.4	43.2	o
160	1.72	16.8	96.7	52.3	45.4	o
200	1.80	12.1	98.2	57.0	41.6	x
250	1.58	14.6	95.9	60.2	35.0	
315	1.66	11.0	93.7	57.7	35.5	
400	1.60	11.8	92.4	54.3	37.5	
500	1.57	15.7	93.5	56.3	36.4	
630	1.61	14.7	95.1	55.6	38.9	
800	1.59	12.1	95.4	55.4	39.4	
1,000	1.56	9.3	94.9	49.0	45.1	
1,250	1.62	11.3	95.4	40.4	54.4	
1,600	1.59	12.8	95.7	35.3	59.8	
2,000	1.57	10.3	93.3	37.9	54.7	
2,500	1.51	8.7	93.7	35.9	56.9	
3,150	1.38	7.5	94.6	32.4	60.9	
4,000	1.25	7.9	99.6	30.7	67.2	
5,000	1.13	7.4	100.0	27.9	69.9	

x Adjusted for flanking transmission

o Correction = 1.3 dB

Rating according to BS EN ISO 717-1:1997

$D_{n,e,w}(C;C_{tr})$ = 43 (0;-2) dB $C_{50\text{-}3150}$ = 0 dB $C_{50\text{-}5000}$ = -1 dB $C_{100\text{-}5000}$ = 1 dB

$C_{tr,50\text{-}3150}$ = - $C_{tr,50\text{-}5000}$ = - $C_{tr,100\text{-}5000}$ = -2 dB

Evaluation based on laboratory measurement results obtained by an engineering method

Based on the data provided in BS EN 20140-2:1993 it is estimated that the measurement uncertainty should not exceed ±1 dB for the singl quantity ($D_{n,e,w}$) and should not exceed the values in Table A1 of BS EN 20140-2:1993 for the data in the individual third octaves ($D_{n,e,w}$)

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Laboratory measurement of airborne sound insulation of small building elements
Element-normalized level difference according to BS EN 20140-10:1992
BRE horizontal transmission suite (B9)

Client: Rytons Building Products Ltd

Test date: 12/02/2013 **Test number:** L112-079 **Test element:** vent

0578

Filler wall area: 9.8 m²

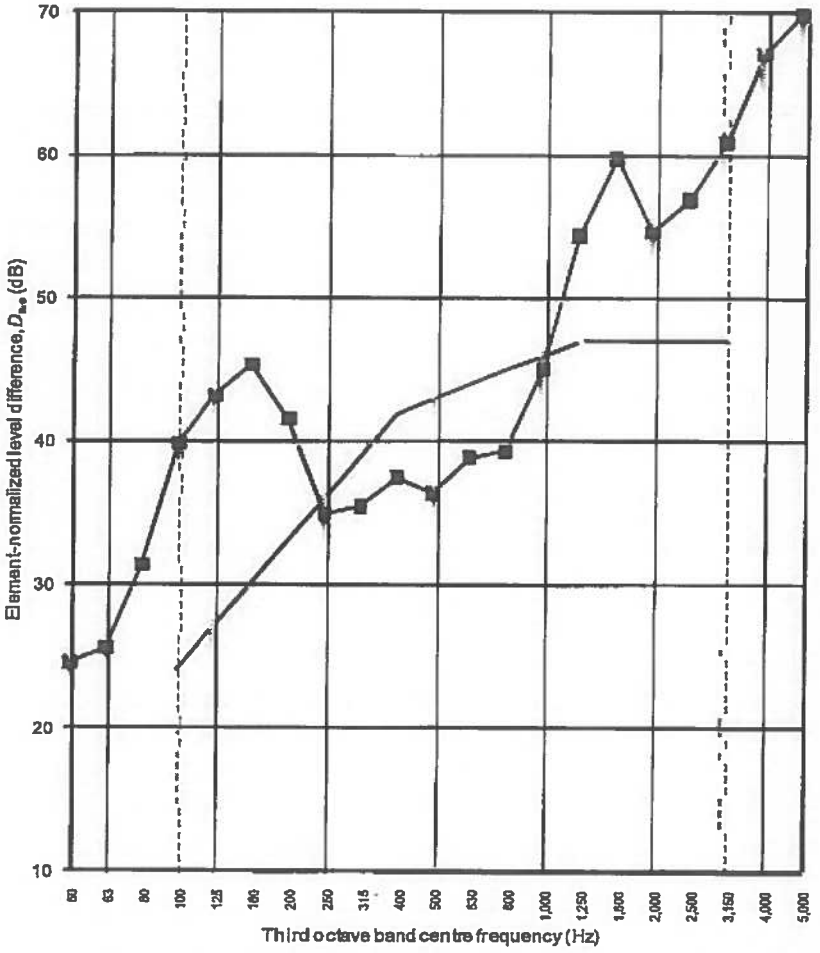
Description:

AAC125HP-OPEN- Super Acoustic Controllable LookRyt® AirCore®

Source room volume: 130 m³ **Air temperature:** 9 °C

Receive room volume: 115 m³ **Air relative humidity:** 55 %

Frequency (Hz)	$D_{n,e}$ One-third octave (dB)	
50	24.6	o
63	25.6	o
80	31.4	o
100	39.9	o
125	43.2	o
160	45.4	o
200	41.6	x
250	35.0	
315	35.5	
400	37.5	
500	36.4	
630	38.9	
800	39.4	
1,000	45.1	
1,250	54.4	
1,600	59.8	
2,000	54.7	
2,500	56.9	
3,150	60.9	
4,000	67.2	
5,000	69.9	



x Adjusted for flanking transmission

o Correction = 1.3 dB

Rating according to BS EN ISO 717-1:1997

$D_{n,e,w}(C;C_{tr})$ = 43 (0;-2) dB $C_{50\text{-}3150}$ = 0 dB $C_{50\text{-}5000}$ = 1 dB $C_{100\text{-}5000}$ = 1 dB

$C_{tr,50\text{-}3150}$ = - $C_{tr,50\text{-}5000}$ = - $C_{tr,100\text{-}5000}$ = -2 dB

Evaluation based on laboratory measurement results obtained by an engineering method

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Laboratory measurement of airborne sound insulation of small building elements
Element-normalized level difference according to BS EN 20140-10:1992
BRE horizontal transmission suite (B9)

Client: Rytons Building Products Ltd

Test date: 12/02/2013 **Test number:** L112-080 **Test element:** vent

Filler wall area: 9.8 m²

Description:

AAC125HP-CLOSED- Super Acoustic Controllable LookRyt® AirCore®

Source room volume: 130 m³ **Air temperature:** 9 °C

Receive room volume: 115 m³ **Air relative humidity:** 55 %

Frequency (Hz)	Reverberation time (s)	Background level (dB)	Source level (dB)	Receive level (dB)	$D_{n,e}$ (dB)	
50	1.68	23.1	93.1	69.0	25.0	o
63	1.51	20.1	98.2	73.0	25.7	o
80	1.28	17.7	96.7	64.9	31.6	o
100	1.56	19.4	97.5	58.4	39.7	o
125	1.72	16.6	98.4	56.6	42.8	o
160	1.72	16.8	96.5	52.1	45.4	o
200	1.80	12.1	98.2	56.5	42.2	x
250	1.58	14.6	96.0	57.9	37.5	
315	1.66	11.0	93.8	51.4	42.0	
400	1.60	11.8	92.6	49.8	42.2	
500	1.57	15.7	93.6	50.3	42.6	
630	1.61	14.7	95.2	46.7	48.0	
800	1.59	12.1	95.5	46.5	48.3	
1,000	1.56	9.3	94.9	39.0	55.2	
1,250	1.62	11.3	95.4	31.4	63.5	
1,600	1.59	12.8	95.7	31.4	63.7	
2,000	1.57	10.3	93.4	33.8	58.9	
2,500	1.51	8.7	93.7	33.4	59.4	
3,150	1.38	7.5	94.6	31.1	62.3	
4,000	1.25	7.9	99.6	29.7	68.2	
5,000	1.13	7.4	99.9	26.5	71.3	

x Adjusted for flanking transmission

o Correction = 1.3 dB

Rating according to BS EN ISO 717-1:1997

$D_{n,e,w}(C;C_{tr})$ = 50 (-1;-3) dB $C_{50\text{-}3150}$ = -1 dB $C_{50\text{-}5000}$ = 0 dB $C_{100\text{-}5000}$ = 0 dB

$C_{tr,50\text{-}3150}$ = - $C_{tr,50\text{-}5000}$ = - $C_{tr,100\text{-}5000}$ = -3 dB

Evaluation based on laboratory measurement results obtained by an engineering method

Based on the data provided in BS EN 20140-2:1993 it is estimated that the measurement uncertainty should not exceed ±1 dB for the single quantity ($D_{n,e,w}$) and should not exceed the values in Table A1 of BS EN 20140-2:1993 for the data in the individual third octaves ($D_{n,e,w}$)

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Laboratory measurement of airborne sound insulation of small building elements
Element-normalized level difference according to BS EN 20140-10:1992
BRE horizontal transmission suite (B9)

Client: Rytons Building Products Ltd

Test date: 12/02/2013 **Test number:** L112-080 **Test element:** vent

Filler wall area: 9.8 m²

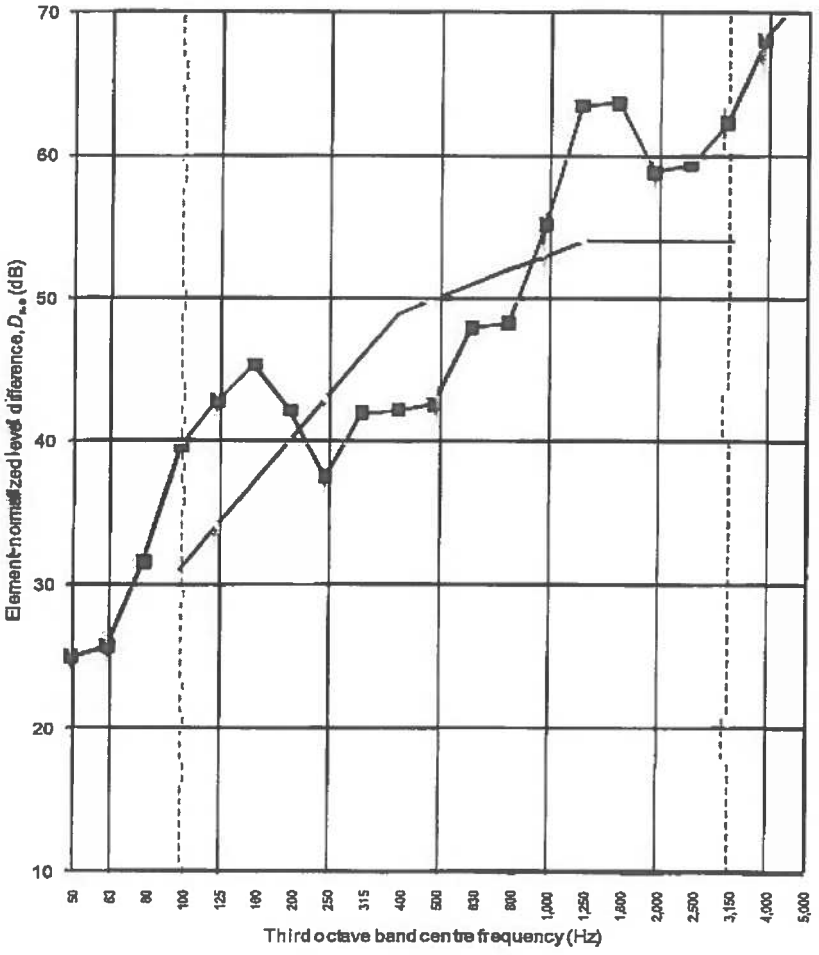
Description:

AAC125HP-CLOSED- Super Acoustic Controllable LookRyt® AirCore®

Source room volume: 130 m³ **Air temperature:** 9 °C

Receive room volume: 115 m³ **Air relative humidity:** 55 %

Frequency (Hz)	$D_{n,e}$ One-third octave (dB)	
50	25.0	o
63	25.7	o
80	31.6	o
100	39.7	o
125	42.8	o
160	45.4	o
200	42.2	x
250	37.5	
315	42.0	
400	42.2	
500	42.6	
630	48.0	
800	48.3	
1,000	55.2	
1,250	63.5	
1,600	63.7	
2,000	58.9	
2,500	59.4	
3,150	62.3	
4,000	68.2	
5,000	71.3	



x Adjusted for flanking transmission

o Correction = 1.3 dB

Rating according to BS EN ISO 717-1:1997

$D_{n,e,w}(C;C_{tr})$ = 50 (-1;-3) dB

$C_{50\text{-}3150}$	= -1 dB	$C_{50\text{-}5000}$	= 0 dB	$C_{100\text{-}5000}$	= 0 dB
$C_{tr,50\text{-}3150}$	= -	$C_{tr,50\text{-}5000}$	= -	$C_{tr,100\text{-}5000}$	= -3 dB

Evaluation based on laboratory measurement results obtained by an engineering method

Based on the data provided in BS EN 20140-2:1993 it is estimated that the measurement uncertainty should not exceed ±1 dB for the singl quantity ($D_{n,e,w}$) and should not exceed the values in Table A1 of BS EN 20140-2:1993 for the data in the individual third octaves ($D_{n,e,w}$)

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