

Attenuators for Natural Ventilation Systems

Our natural ventilation units can include an attenuation section to reduce the ingress of noise from sources such as road, air traffic and pedestrian including noise from playing areas.

Straight through attenuation:

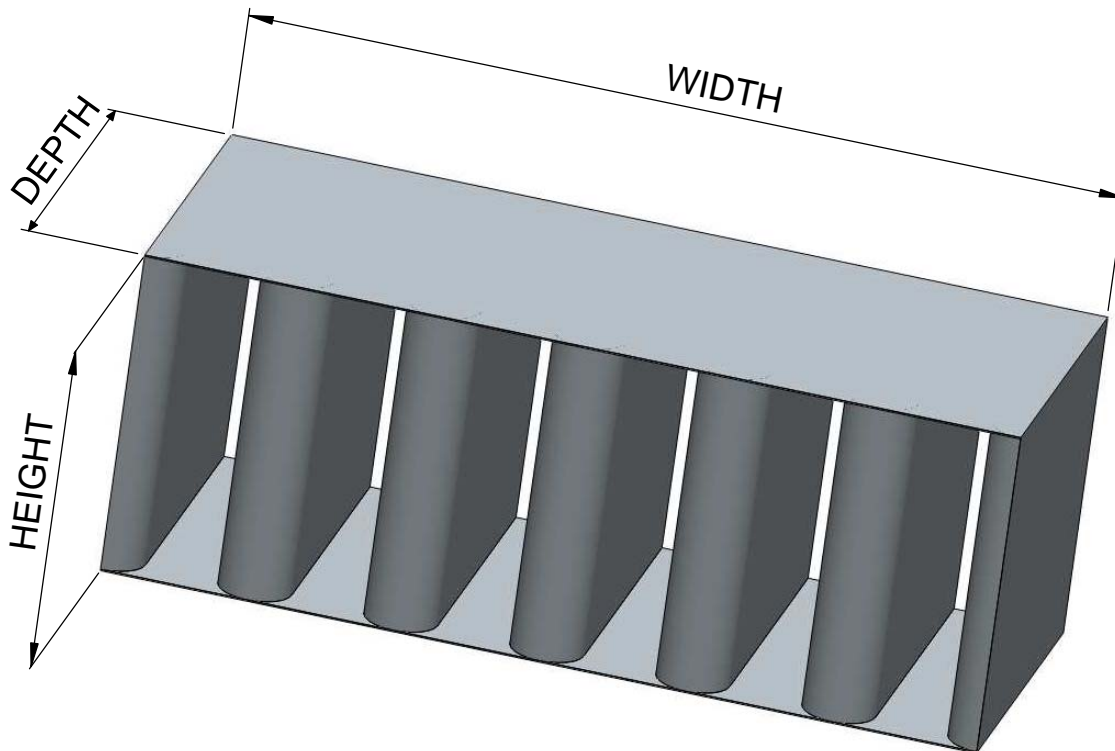
The attenuators would comprise an outer skin of galvanised steel with an internal media consisting of splitters and/or linings constructed from fire retardent acoustic insulation.

In some units the insulation would be retained behind perforated or expanded galvanised steel.

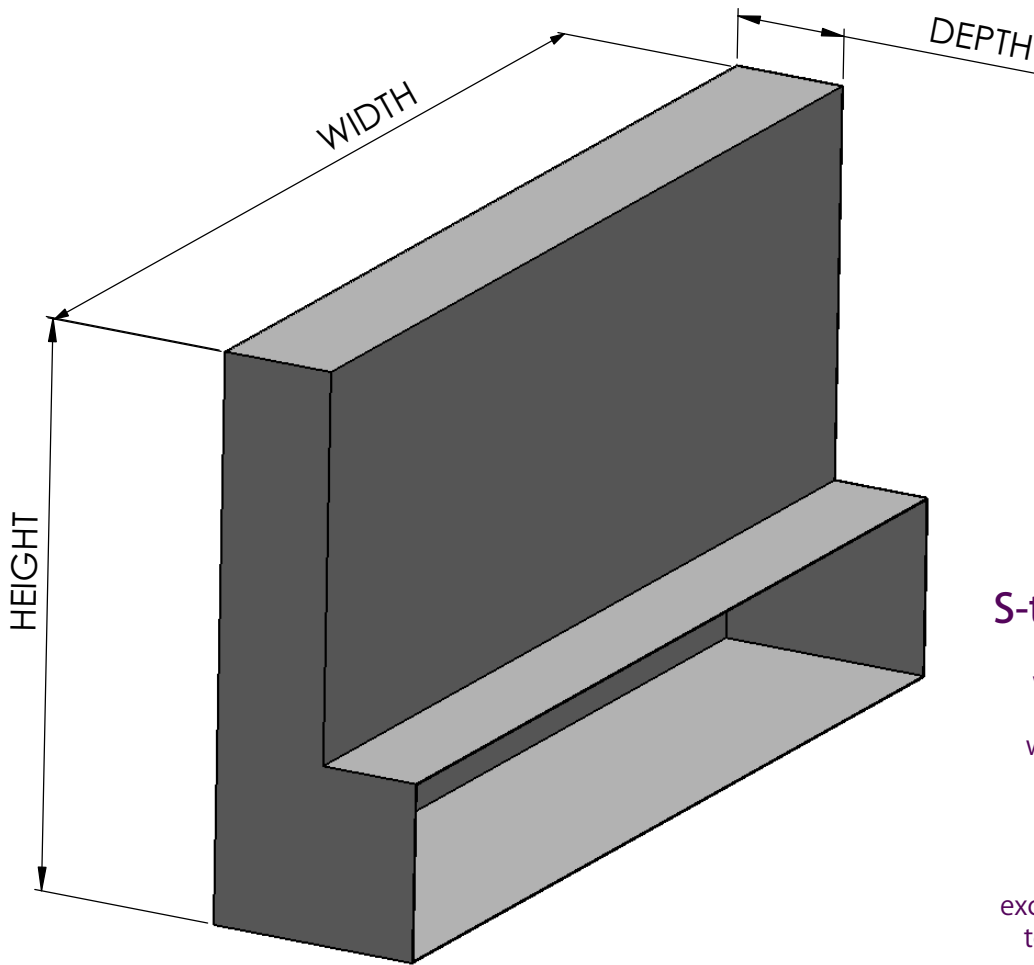
The acoustic performance of the attenuators when incorporated into the ventilation units would be:

Width	Height	Length	Free Area	D _{new}
1100mm	450mm	100mm	50%	22
1100mm	450mm	200mm	50%	25
1100mm	450mm	250mm	50%	27
1100mm	450mm	400mm	50%	29
1100mm	45mm	600mm	50%	34

As independently tested by Sound Research Laboratories Ltd



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S-type attenuators

The S-type attenuators would comprise an outer skin of galvanised skin with internal insulation of fire retardant acoustic insulation.

The insulation also has excellent thermal insulation to minimise cold bridging across the unit.

The acoustic performance of the attenuators when incorporated into the ventilation units would be:

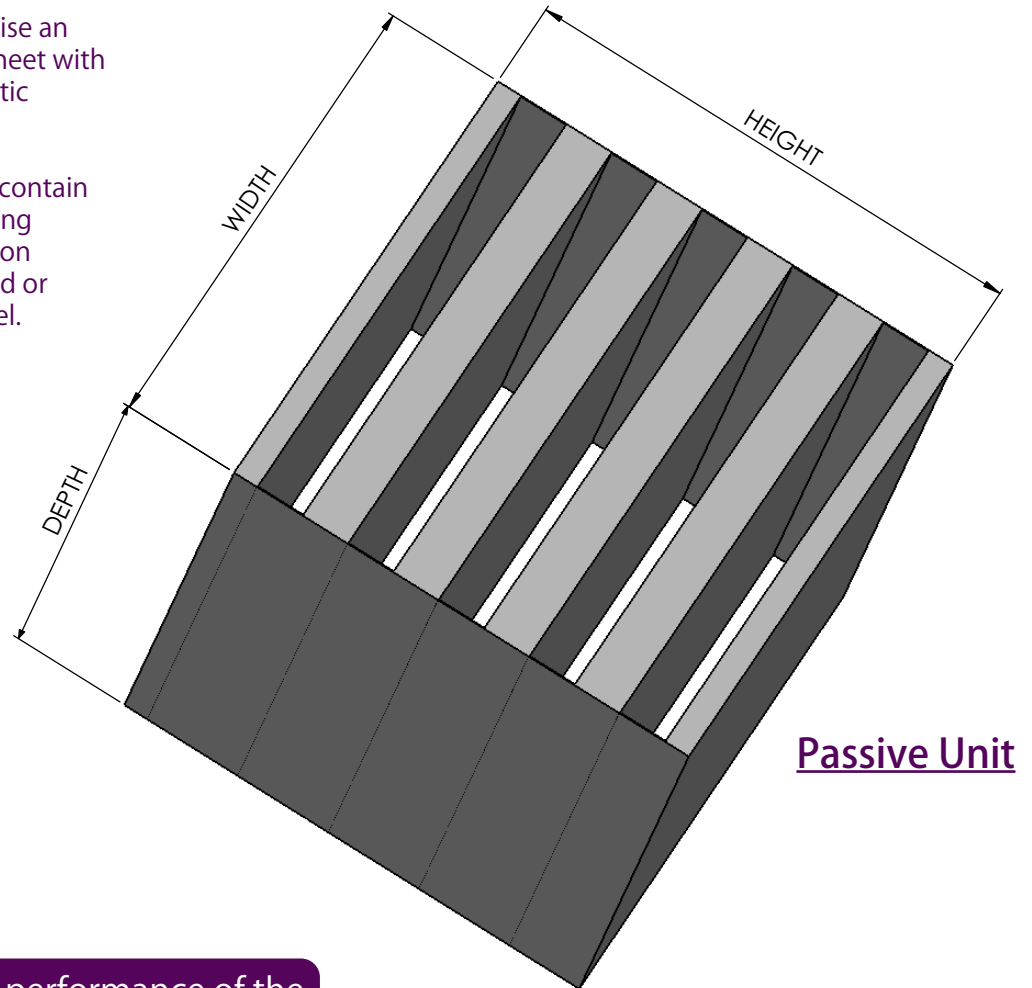
Width	Height	Depth	Free Area	D _{new}
1400mm	800mm	80mm	0.095	25
1400mm	800mm	80mm	0.078	27
1400mm	800mm	80mm	0.042	33
1400mm	800mm	160mm	0.207	23
1400mm	800mm	160mm	0.190	25
1400mm	800mm	160mm	0.154	28
1400mm	800mm	240mm	0.319	22
1400mm	800mm	240mm	0.302	24
1400mm	800mm	240mm	0.266	27

As independently tested by Sound Research Laboratories Ltd

Attenuators for Roof Terminals

Attenuators would comprise an outer skin of galvanised sheet with an internal lining of acoustic thermal insulation.

The attenuators may also contain acoustic splitters comprising rockwool acoustic insulation retained behind perforated or expanded galvanised steel.



Passive Unit

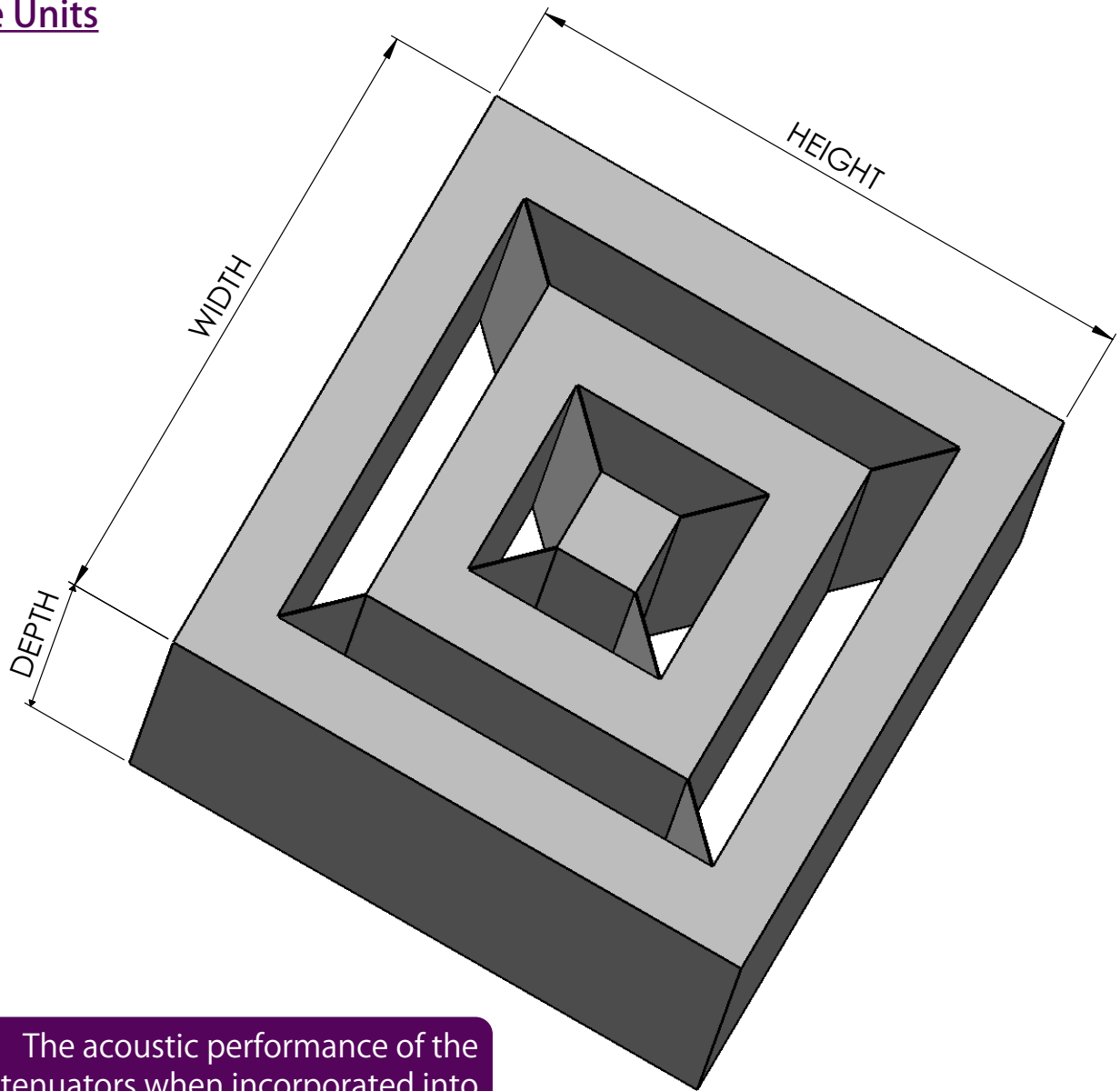
The acoustic performance of the attenuators when incorporated into the ventilation units would be:

Width	Height	Length	D _{new}
1000mm	1000mm	1000mm	34
1000mm	750mm	1000mm	30
1000mm	250mm	1000mm	21
1000mm <i>Lining only</i>	750mm	1000mm	13
800mm	750mm	800mm	33
800mm <i>Lining only</i>	750mm	800mm	15

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Active Units



The acoustic performance of the attenuators when incorporated into the ventilation units would be:

Width	Height	Length	D _{new}
1000mm	1000mm	1000mm	39
1000mm	750mm	1000mm	34
1000mm	250mm	1000mm	24
1000mm <i>Lining only</i>	750mm	1000mm	16
800mm	750mm	800mm	35
800mm <i>Lining only</i>	750mm	800mm	19

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