

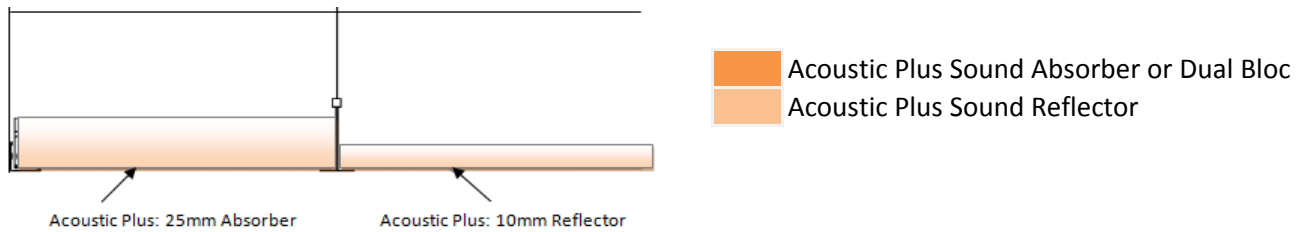


Acoustic Plus

SOUND-CLASS 60/40 SYSTEM

Absorber / Reflector Acoustic Solution

Typical ceiling layout for Acoustic Plus™ SoundClass Ceiling system	
<p>Locate Acoustic Plus™ Sound Reflector to the centre of the classroom to enhance speech intelligibility. locate Acoustic Plus™ Sound Absorber or Acoustic Plus™ Dual Bloc to all sides to control reverberation. The surface of all tiles are matching for a uniform appearance.</p>	



Description

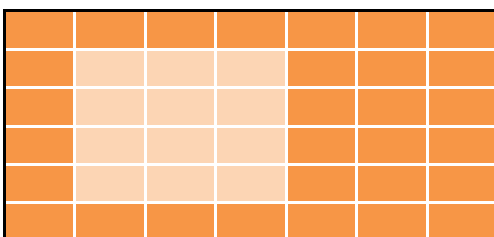
Sound-Class 60/40 is an acoustic ceiling system designed for applications where noise control is required to enhance speech clarity in teaching spaces. The system consists of economical Acoustic Plus 15mm or 25mm Sound Absorber and Acoustic Plus Sound Reflector ceiling tiles set out in a 60% / 40% ratio. All tiles are finished with a matching laminated surface to provide a uniform aesthetic.

Options:

Under metal roofing where rain noise attenuation and additional sound absorption is required, Ecoplus Systems recommend Acoustic Plus Dual Bloc 60mm thick absorber/attenuator tiles which are engineered to attenuate rain noise and provide a higher level of reverberation control.

Application - Layout 1

For traditional didactic teaching, locate Sound Reflector to the front of the room to reflect speech to the back of the room. Locate Sound Absorber to the sides and rear.



System integration for balanced acoustic design

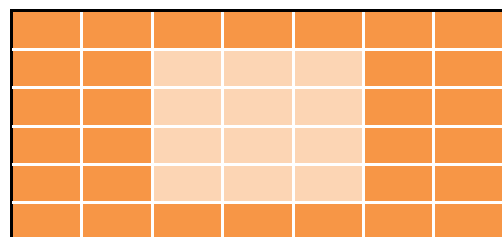
Acoustic Plus™ is a range of matching ceiling tiles. Each type of tile has specific acoustic attributes and when used in conjunction with each other, provides a balanced acoustic environment - all with a matching surface finish. Integrate Sound Reflector with Sound Absorber in a 60 / 40 ratio to enhance speech intelligibility or pair with Dual Bloc 35 or Dual Bloc 60 for areas requiring higher levels of sound attenuation. Ideal for education builds.

Specification:

Ecoplus Systems products are available for specification on Masterpsec and Smartspec. Specification documents can also be downloaded from www.ecoplus-systems.com or call 0800 432 674

Application - Layout 2

For typical grouped style teaching, locate Sound Absorber to all sides of the room to control reverberation and locate Reflector to the centre to enhance speech intelligibility.

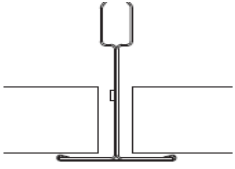


60%

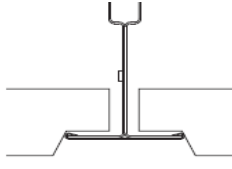
Acoustic Plus

HIGH PERFORMANCE CEILING PANELS
Innovative acoustic solutions

Square edge (SQ)



Tegular edge (TEG)



Product item	Edge	Code
1195 x 595 x 15mm	SQ	AP3130
595 x 595 x 15mm	TEG	AP3135
1195 x 595 x 15mm	TEG	AP3140
1195 x 595 x 25mm	SQ	AP3155
595 x 595 x 25mm	TEG	AP3160
1195 x 595 x 25mm	TEG	AP3165



Description

Acoustic Plus™ Sound Absorber Ceiling Tiles are designed for a broad range of applications providing a good level of sound absorption and control of background noise levels. Acoustic efficiency, easy to clean, hygienic surface finish and non toxic, low VOC materials provide a cost effective and innovative acoustic ceiling solution.

Ideal uses

- large format retail spaces
- Schools / educational facilities
- Open plan office and call centre environments
- Any area requiring a good level of acoustic efficiency

How to specify

Ecoplus Systems products are available for specification on Masterpsec and Smartspec. Specification documents can also be downloaded from www.ecoplus-systems.com or call 0800 432 676

Maintenance and accessibility

Acoustic plus ceiling panels can be cleaned with a soft nozzle vacuum, soft brush or damp cloth. Panels are demountable.

System integration for balanced acoustic design

Acoustic Plus™ is a range of matching ceiling tiles. Each type of tile has specific acoustic attributes and when used in conjunction with each other, provides a balanced acoustic environment - all with a matching surface finish. Integrate Acoustic Plus Sound Absorber with Dual Bloc 35 or Dual Bloc 60 for areas requiring high levels of sound attenuation or with Sound Reflector to enhance speech intelligibility. Ideal for education builds.

Composition

Acoustic Plus Sound Absorber Ceiling tiles are manufactured from a 100kg /m3 glass fibre acoustic absorber either 15mm or 25mm thick and finished with a composite glass mat acoustic facer.

Sound Absorption - ASTM C423 ISO 354

15mm:	NRC 0.85 αw 0.90
25mm:	NRC 0.90 αw 0.90

Fire Class

NZBC Group 1S
NZBC Group 1S

Thermal Resistance

15mm:	R 0.4 m2 K/W
25mm:	R 0.8 m2 K/W

Weight Per m2

1.5 Kg's
2.5 Kg's

Installation

The building must be water tight and remain dry before installation commences. M/E fittings should be independently supported.

Features	Benefits
High sound absorption - NRC 0.85 - 0.90	Reduced background noise and reverberation
Non toxic and low VOC	Sustainable, helps achieve points toward Green Star fit-outs
Hygienic surface finish	Cleanable, resistant to mould and bacteria
Anti sag enclosed edges	Rigid and self supporting. Prevents damage and maintains stability
Choice of surface finishes including Black	Improved design freedom

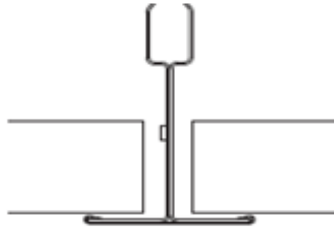
The acoustic performance of this product has been tested and measured by Auckland University Acoustic Services

40%

Acoustic Plus

SOUND REFLECTOR CEILING PANELS
Noise reflecting, Speech enhancing

Square edge (SQ)



Product item	Edge	Code
1195 x 595 x 10mm	SQ	REF310



Description

Acoustic Plus™ Sound Reflector is a suspended ceiling tile designed for applications requiring a specialised sound reflective outcome for speech clarity or music tone. Install Sound Reflector in combination with high NRC ceiling tiles from the Acoustic Plus range to enhance the acoustical properties of learning areas such as lecture theatres and teaching spaces.

Ideal uses

- School classrooms
- Lecture theatres
- Music rooms

How to specify

Ecoplus Systems products are available for specification on Masterpsec and Smartspec. Specification documents can also be downloaded from www.ecoplus-systems.com or call 0800 432 674

Maintenance and accessibility

Acoustic plus ceiling tiles can be cleaned with a soft nozzle vacuum, soft brush or damp cloth. tiles are demountable.

System integration for balanced acoustic design

Acoustic Plus™ is a range of matching ceiling tiles. Each type of tile has specific acoustic attributes and when used in conjunction with each other, provides a balanced acoustic environment - all with a matching surface finish. Integrate Sound Reflector with Sound Absorber in a 60 / 40 ratio to enhance speech intelligibility or pair with Dual Bloc 35 or Dual Bloc 60 for areas requiring high levels of sound attenuation. Ideal for education builds.

Composition

Sound Reflector Ceiling Panels are manufactured from a 10mm thick, foil backed, plasterboard core finished with a composite glass mat acoustic facer. Surface finish matches other ceiling tiles from the Acoustic Plus range.

Sound Absorption - ASTM C423 ISO 354

NRC 0.05 αw 0.15	frequency (Hz)	500	1000	2000	4000
Practical sound absorption coefficients		.05	.05	.05	.10

Fire Class

NZBC Group 1S

Weight

6.8 Kg's per m2

Installation

The building must be water tight and dry before installation commences. M/E fittings should be independently supported.

Features	Benefits
Sound reflecting	Enhances speech clarity and music tone
Attenuation of airborne noise	Muffles rain noise under metal roofing
Hygienic surface finish	Cleanable, resistant to mould and bacteria
Foil backed	Helps prevent condensation damage
Durable high density construction	Resists damage and maintains stability

The acoustic performance of this product has been tested and measured by Auckland University Acoustic Services