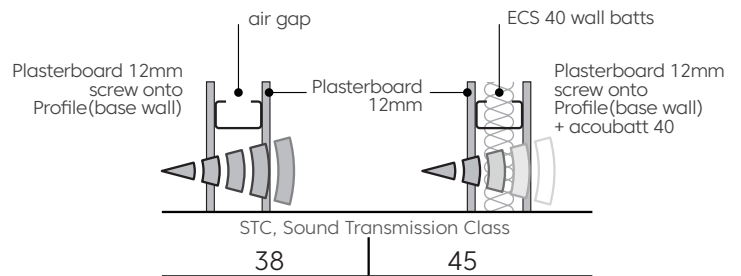




Product Name acoubatt® (ECS 40)  
 Product Category Wall and ceiling  
 Material 100% Polyester fibers with > 80% recycled content  
 Weight 1,500 gram / sq.m  
 Density 38 kgs / Cubic.m  
 Thickness 40 mm +/-10%  
 Size 400mm x 1,200 mm  
 600mm x 1,200 mm



Performance  
 Sound Transmission Class STC 5, ISO 717 Part 1  
 Sound Absorption NRC 0.80 with no air gap, ISO 354

Sound Absorption Coefficients(as)

(Hz)	125	250	500	1000	2000	4000
Frequency f	0.15	0.52	0.75	0.93	1.02	0.99

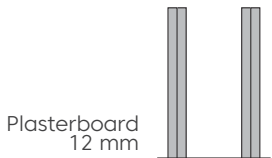
STC  
 The STC stands for Sound Transmission Class is a single number that represents the performance of the soundproofed through the air (Airborne) of walls, ceilings, doors, or by a laboratory test (standard ASTM E90-09), The values in the range of 125-4000Hz were calculated (according to ASTM E 413-87), In summary, the higher the STC is well soundproofed.

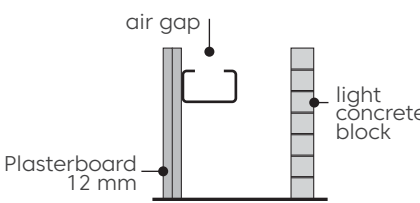
Flammability ASTM E84, Class A  
 Indoor Air Quality Low VOCs emission, formaldehyde and Phenol-free  
 Moisture Content <0.15% by weight



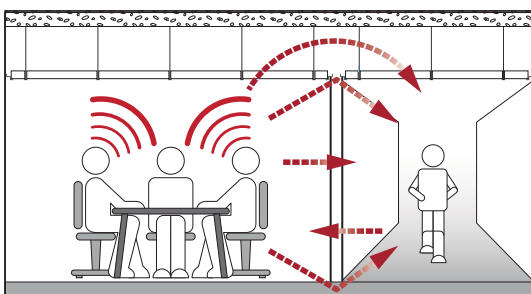
Version 1.2  
 for  
 CDPH 01350

SOUND TRANSMISSION CLASS(STC) RATINGS OF SOME COMMERCIAL INTERNAL DRY WALL\*  
 Tables in the Feltech acoubatt Insulation

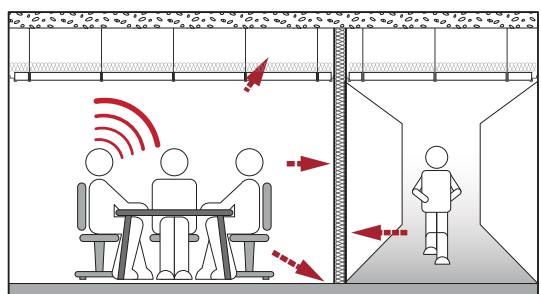
	No Insulation	ECS 40 wall batts	E50 wall batts
 <p>Plasterboard 12 mm</p>			
<p>STC 30 - 40</p> <ul style="list-style-type: none"> <li>• 1 layer 12mm Plasterboard</li> <li>• 75mm Steel Studs (โครง C-line 75mm)</li> <li>• 1 layer 12mm Plasterboard</li> </ul>	35	41	41
<p>STC 40 - 50</p> <ul style="list-style-type: none"> <li>• 1 layer 12mm Plasterboard ทนไฟ</li> <li>• 75mm Steel Studs (โครง C-line 75mm)</li> <li>• 1 layer 12mm Plasterboard ทนไฟ</li> </ul>	38	45	45
<p>STC 50 - 60</p> <ul style="list-style-type: none"> <li>• 2 layer 12mm Plasterboard ทนไฟ</li> <li>• 75mm Steel Studs (โครง C-line 75mm)</li> <li>• 2 layer 12mm Plasterboard ทนไฟ</li> </ul>	49	54	54

	No Insulation	ECS 40 wall batts	E50 wall batts
 <p>air gap</p> <p>Plasterboard 12 mm</p> <p>light concrete block</p>			
<p>STC 60 - 70</p> <ul style="list-style-type: none"> <li>• 2 layer 12mm Plasterboard ทนไฟ</li> <li>• 75mm Steel Studs (โครง C-line 75mm)</li> <li>• light concrete block with 100 mm</li> </ul>	54	57	58
<p>STC 70 - 80</p> <ul style="list-style-type: none"> <li>• 2 layer 12mm Plasterboard ทนไฟ</li> <li>• 75mm Steel Studs (โครง C-line 75mm)</li> <li>• air gap 25 mm</li> <li>• light concrete block with 100 mm</li> </ul>	58	74	75

Poor sound privacy caused by sound flanking through lightweight suspended ceiling



Improved privacy with acoubatt on ceiling space over wall



## SOUND INSULATION



acoubatt® is a high performance sound insulation designed for wall, ceiling and subfloor applications. Made of 100% polyester fibers (instead of fiberglass) including 85% regenerated fibers from discarded plastic drinking bottles reclaimed as post-consumer waste. acoubatt® is truly an environmentally friendly product which is manufactured in a near zerowaste production process and is fully recyclable.

acoubatt® is ideal for reduction of airborne sound transmission between room through separating walls. It has a Noise Reduction Coefficient (NRC) 0.80 -0.09. Feltech's polyester fibers are finer and lighter in weight compared to fiberglass or rockwool. Processed in Feltech's air-lay production line and heat-bonded into 3 dimensional batt which is soft, light weight and contains millions of tiny air pockets, contributing to better sound absorption and heat insulation.

acoubatt® does not contain formaldehyde binders as commonly used with fiberglass insulation materials. Polyester fibers is soft, extremely durable and does not absorb moisture, will not deteriorate or rot over time and is naturally resistant to insects and vermin attack. Unlike fiberglass, polyester is made from the same materials that you will find in many pillows and children clothes. It is clean and safe providing clean indoor air quality.

## THERMAL INSULATION

acoubatt® is high performance thermal insulation designed for wall, ceiling and roof insulation. Made of 85 % recycled polyester fibers for PET bottles reclaimed as post-consumer waste. It does not contains formaldehyde binders as commonly used with fiberglass insulation materials. It is safe and low VOCs, providing Indoor Air Quality.

### Feltech's Acoustic Insulation provides both sound and thermal insulation Superior features compared with fiberglass

- Free of respirable fiberglass particles, formaldehyde, and halogenated flame retardants.
- Polyester is user-friendly, non-toxic and non-irritant.
- More than 50% recycled fibers, contributing to the clean environment.
- Polyester batt has more air pockets, resulting in higher effective sound absorption & thermal insulation.
- Polyester is thermally bonded, does not contain formaldehyde binders.
- Regenerated fibers are clean and odorless provide clean indoor air quality.
- Does not absorb moisture, never deteriorates over time.
- Does not turn moldy or attract insects or vermin.
- Panels come in colors and an option of prints of images and patterns.
- 100% recyclable at the end of its useful life

Feltech's polyester fibers are finer and lighter in weight compared to fiberglass. Processed in Feltech's airlaid production line and thermo-bonded into 3 dimensional batts which are soft, light weight and full of air pockets, contributing to better sound absorption and thermal insulation.