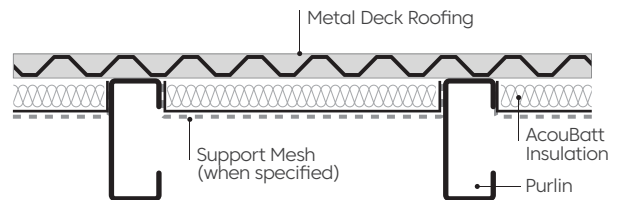




Product Name	acoubatt® (ECS 40)
Product Category	Wall and ceiling
Material	100% Polyester fibers with > 80% recycled content
Weight	1,500 gram / sq.m
Density	38 kgs / Cubic.m
Thickness	40 mm +/-10%
Size	400mm x 1,200 mm 600mm x 1,200 mm
Performance	
Sound Transmission Class	STC 5, ISO 717 Part 1
Sound Absorption	NRC 0.80 with no air gap, ISO 354
Thermal Conductivity	K-Value 0.037 W/mK, ASTM C 518
Thermal Resistance	R-Value 1.087 m²K/W, ASTM C 518
Flammability	ASTM E84, Class A
Indoor Air Quality	Low VOCs emission, formaldehyde and Phenol-free
Moisture Content	<0.15% by weight



\* What is the R value of insulation

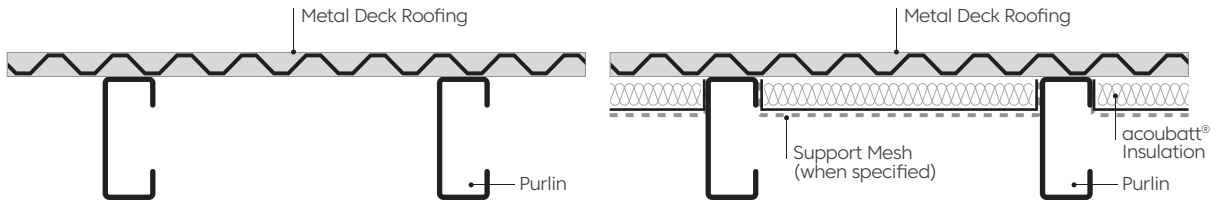
An insulating material's resistance to conductive heat flow is measured or rated in terms of its thermal resistance or R-value -the higher the R-value, the greater the insulating effectiveness. The R-value depends on the type of insulation, its thickness, and its density.



Version 1.2  
for  
CDPH 01350



# THERMAL INSULATION

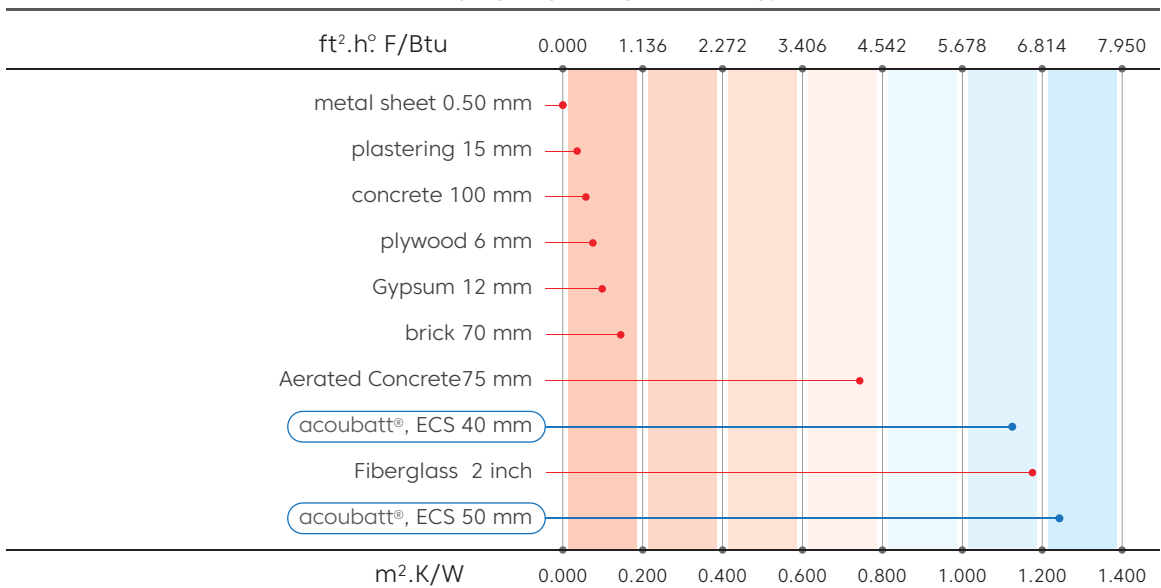


	Metal sheet roof without insulation	Metal sheet roof with acoubatt ECS40	Metal sheet roof with acoubatt ECS50
Rt (m2 .K/W)	0.217	1.762	1.913
U Value (W/m.K)	4.608	0.767	0.687
Heat passes per square meter *(W) ความร้อนที่ส่งผ่าน/ตร.ม.*(วัตต์)	64.512	10.738	9.618
Thermal energy reduction compared. Roof System General Mills พลังงานความร้อนที่ลดลงเมื่อเทียบกับระบบหลังคาโรงงานทั่วไป	0%	83%	85%

\* คำนวณด้วยสูตร  $Q = UA\Delta T$

โดยคิดอุณหภูมิภายนอกที่ 39 องศาเซลเซียส ภายใน 25 องศาเซลเซียส

## R VALUE OF BUILDING MATERIALS.



## 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.