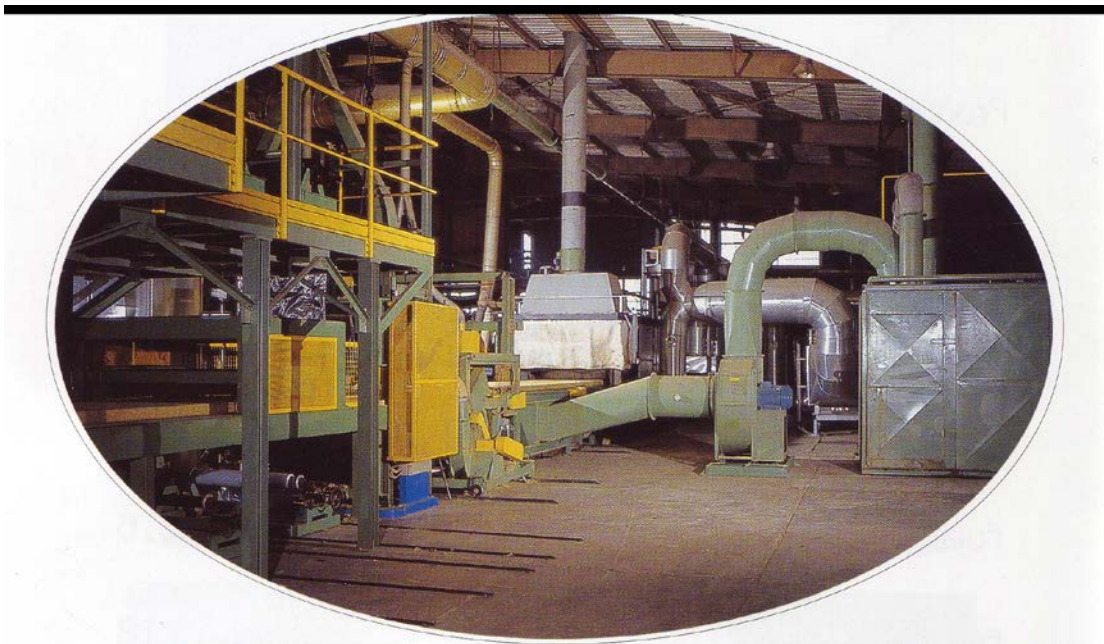


THERMACON ACOUSTIC PANEL

INTRODUCTION

Thermacon Acoustic Panel is a mineral fibre Insulation made by melting diabase rock mixed with coke and limestone converting them into fibres. The raw diabase is melted at high temperatures and spun at high speeds using the latest technology to produce hairline fibres, which is bonded together by a heat setting resin. The fibres are spread on a conveyor using the latest technology to achieve even distribution of density. A special additive is impregnated to the Rockwool to make it water resistant.

Due to the unique composition, fibre type and density Thermacon Acoustic Panel achieve outstanding thermal and acoustic properties. The Rockwool is used as the Thermal Insulation in Power Plants, Petrochemical Plants, Desalination Plants and Refineries. While in Acoustic applications it is used in Ships, Offices, Houses, Schools and almost anywhere, which requires Acoustic control and Thermal Performance.



The main uses are:

- ◆ Thermal Insulation.
- ◆ Acoustic Insulation.
- ◆ Fire Protection.

The key benefits of insulation are:

- ◆ Reduce heat loss for fuel savings.
- ◆ Personnel protection from fire.
- ◆ Personnel protection to create a comfortable working condition.
 - ◆ Reduce sound levels.
 - ◆ Control temperature drop.
- ◆ Preventing condensation of outside ducts and pipes.

Thermacon Acoustic Panel has the following properties:

- ◆ Low thermal conductivity.
- ◆ High temperature resistance up to 750°C.
 - ◆ Non-combustible.
 - ◆ Wide temperature range.
 - ◆ No thermal shock.
 - ◆ Fire resistant.
- ◆ High resistant to deformation.
- ◆ Non-hygroscopic, non-capillary, water repellent and does not absorb moisture from air.
 - ◆ High sound absorption.
- ◆ Chemically neutral and does not create corrosion.
 - ◆ Asbestos free.
 - ◆ Non-carcinogenic.

750°C

Low thermal conductivity

High temperature application

High sound absorption

Non-hygroscopic
Water resistant
Weather proof

Fire resistant
Non-combustible
Non-inflammable

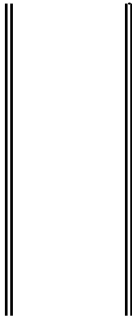
Deformation resistant

Easy to handle
Easy cutting
Easy application
Non-corrosive
Non-carcinogenous
Imputrescible

Thermacon Acoustic Panel has been specifically developed as the industry standard for Acoustic Insulation. The unique density and fibre construction make it ideal to be used as Acoustic infill between floors in 2 storey houses, internal and external walls for Acoustic and Thermal Insulation.

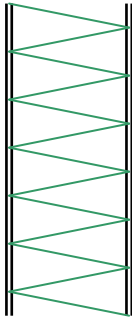
Due to the high sound absorption qualities, Thermacon Acoustic Panel when installed in a stud partition wall will improve the stud wall by up to 6 decibels over a non-insulated partition wall.

Un-insulated



STC 36

Insulated / Thermacon Acoustic Panel



STC 42

**THERMACON ACOUSTIC PANEL CONTROL SLAB
TECHNICAL SPECIFICATION**

Thickness	Density	“R” Value	Size	Reduction in Acoustical Power
60mm	40kg/m ³	1.60	1.2m x 430/600	68%
75mm	40kg/m ³	2.20	1.2m x 430/600	75%
100mm	40kg/m ³	2.95	1.2m x 430/600	80%
115mm	40kg/m ³	3.38	1.2m x 430/600	85%

Thermacon Acoustic Panel will also provide efficient “R” Values at low thickness due to its high density and low thermal conductivity. By using Acoustic Control Slabs you will keep your home cooler in summer and warmer in winter, when compared to standard Insulation products.