

FUJAIRAH ROCKWOOL FACTORY



# FRF

FUJAIRAH ROCKWOOL FACTORY

Warm Greetings





# The Energy Challenge in UAE

- Ⓜ Rapid Economic & Demographic Growth – Good !!!
- Ⓜ Pushing ME Energy Grids to the Limits.
- Ⓜ Growing steadily @ 12 % + PA
- Ⓜ Demand likely to Double by the end of the decade

What is the answer!



# ROCKWOOL INSULATION



**> DID YOU KNOW !**

THAT **BASALT ROCKS** FROM FUJAIRAH

CAN ALSO BE USED AS **INSULATION MATERIAL !!**



## PROCESS OF ROCKWOOL FORMULATION



**BASALT**

+



**LIMESTONE**

+



**COKE**



**CUPOLA**



**SPINNER**

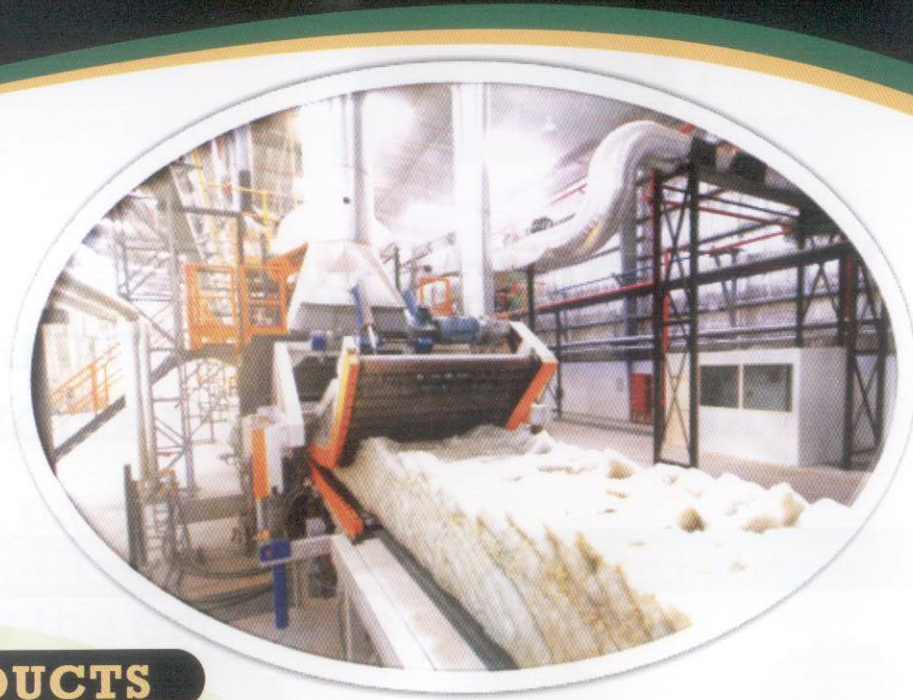


**FIBER**

# PRODUCTION LINE

 **Best Basalt  
around the World**

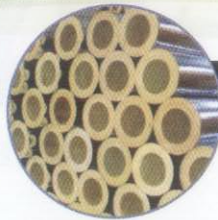
 **Presence of Aluminum  
makes The Best Fiber**



## FUJAIRAH ROCKWOOL PRODUCTS



**Loosewool**



**Pipe Section**

(with and w/o foil)



**Slab**

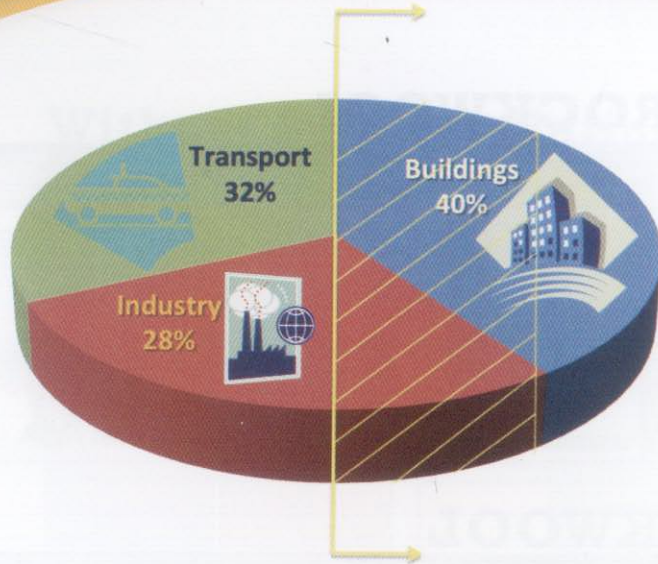
(with & w/o  
foil, polybag,  
black veil)



**Blanket**

(S.S. , G.I., wiremesh)

# ROCKWOOL INSULATION ... Why ?



## I. TO SAVE ENERGY

Of This Energy, Heating & Cooling Systems Use About 55%, While The Others at 45%

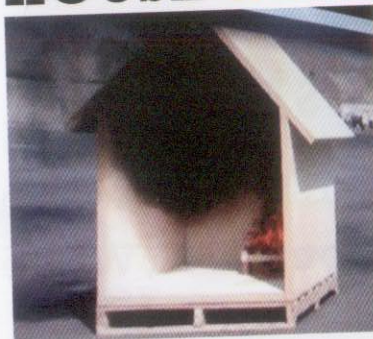
## II. BETTER MAINTENANCE

Insulation From Outside Prevents 80% Of Cracks

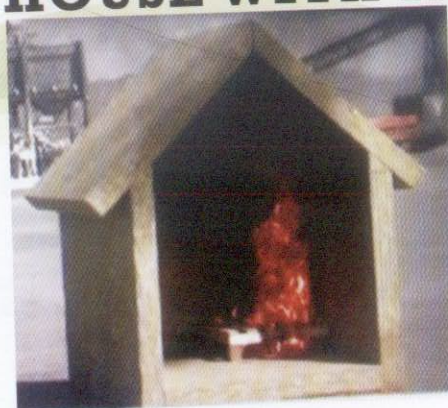
# FIRE RISK

Fire Test  
00:01:43:15

## HOUSE WITHOUT ROCKWOOL

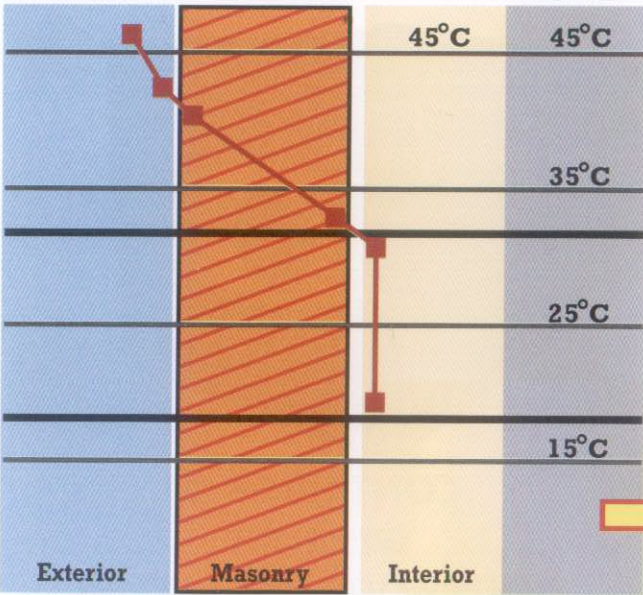


## HOUSE WITH ROCKWOOL



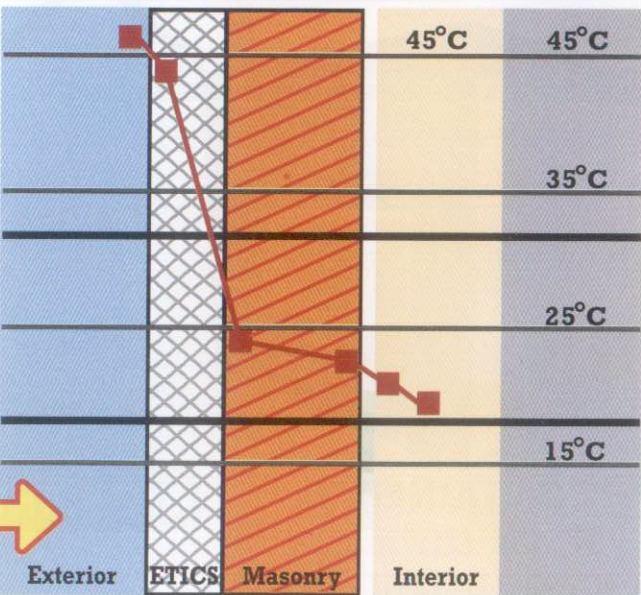
# Performance of Heat Insulation

### Without Heat Insulation



You Have to Cool Down 10 Degrees

### With Heat Insulation



You Have to Cool Down 3.5 Degrees

## Save More Than 40% Energy

# ENERGY CONSUMPTIONS / ENERGY SAVING

## Test Report

INSIDE TEMPERATURE 18°C



**CONTAINER 1  
WITH (200mm)  
ROCKWOOL INSULATION**



**CONTAINER 2  
WITHOUT  
ROCKWOOL INSULATION**

A/C 5.4KWh

Test Repeated Daily Every 2 Months

**" Average Energy Saving - More than 50% "**



# ROCKWOOL INSULATION APPLICATION

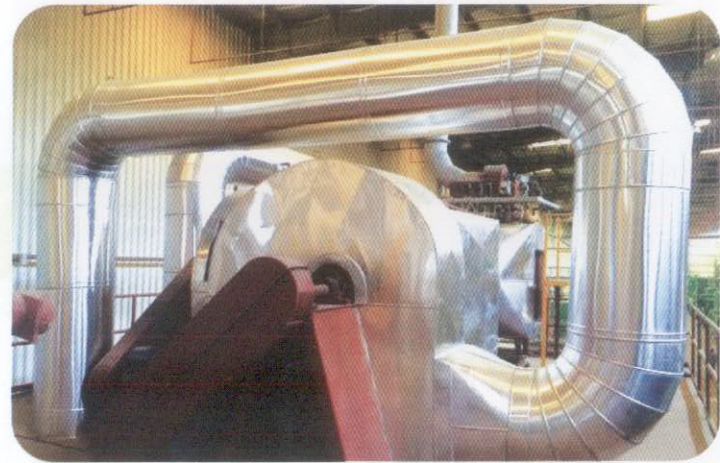
## IN HOUSE

Saves More Than **40%**  
In Houses & In Buildings



## INDUSTRIAL

High Potential To Save Energy.



# SAMPLE OF ROCKWOOL INSULATION COST



## **NORMAL VILLA: 10 X 10Mtr**

You need  $\approx$  3.5t  
of rock wool insulation material  
Cost  $\approx$  **Approximately Dhs15,000**

## **NORMAL VILLA: 10 X 10Mtr**

Ready rock wool insulation system  
from outside with 10yrs warranty  
also for the color  
Cost  $\approx$  **Approximately Dhs 60,000**



## **You can use Rockwool for:**

❧ **Thermal comfort**  
❧ **Saving Energy**

❧ **Safety from Fire**  
❧ **Acoustic comfort**



Thank You

# Fujairah Rockwool Factory

## Saving Energy for UAE for 30+ Years



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