





#### Zen Tower, Dubai

# FACTS: Aluminum composite panels used in External cladding, is proven to aid spread of fire!!!

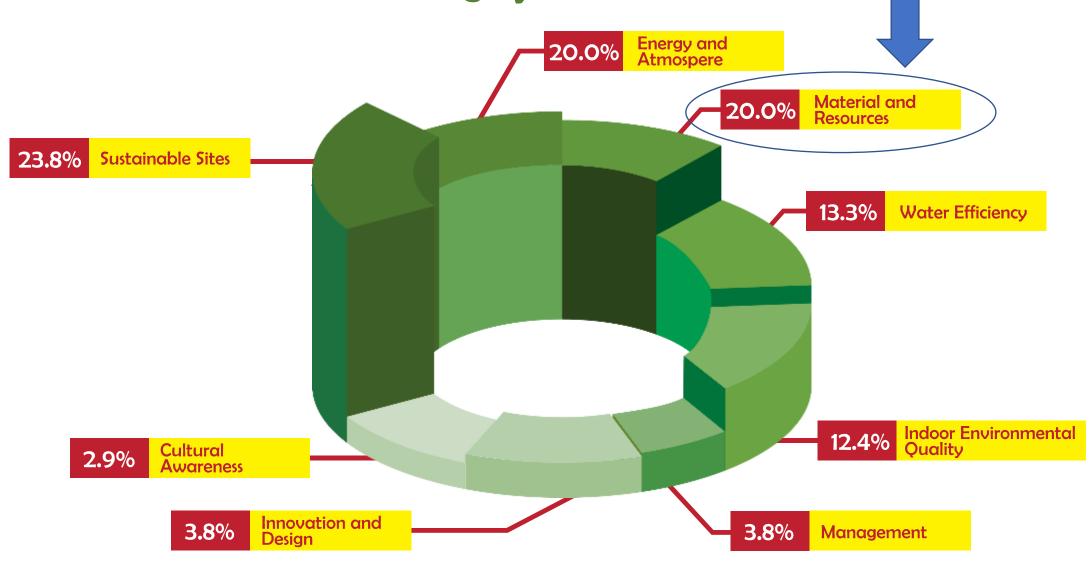
Dubai property regulator has renewed calls for developers and owners to work together to identify towers where <u>combustible aluminum cladding must be</u> <u>changed</u> and outlined details about a new safety drive to replace the facades.













#### 4 Parameters to focus, while Designing fire rated systems



**Combustibility** 

Non-combustible according to (BS 476:Part 4-1970)

#### Surface spread of flame

Class - 1 as per (BS 476:Part 7-1997)

#### **Fire Propagation**

(BS 476:Part 6-1989+A1:2009)

#### **Ignitability**

Fire propagation index I = 1.2 as per Class 'P' not easily ignitable as per (BS 476:Part 5-1979)





#### 3 Critical functions of a fire rated system

# Integrity

withstand and prevent fire as well as smoke from breaching the buildings compartmentation

#### **Insulation**

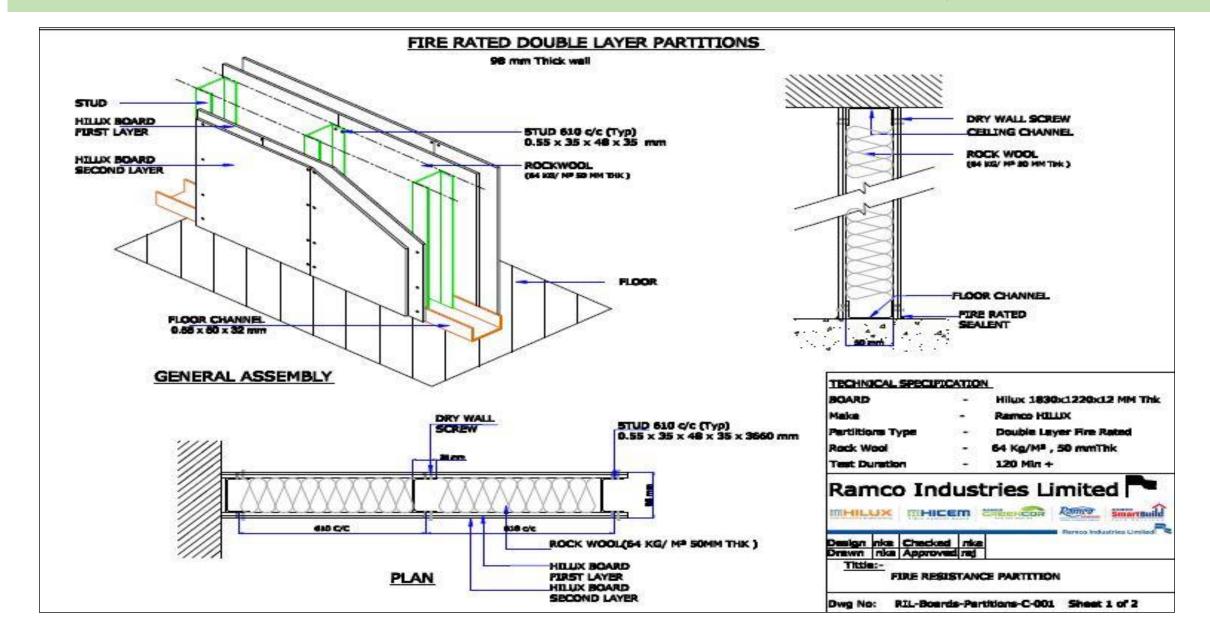
withstand the heat generated from a fire and prevent it from breaching the buildings compartmentation

# **Stability**

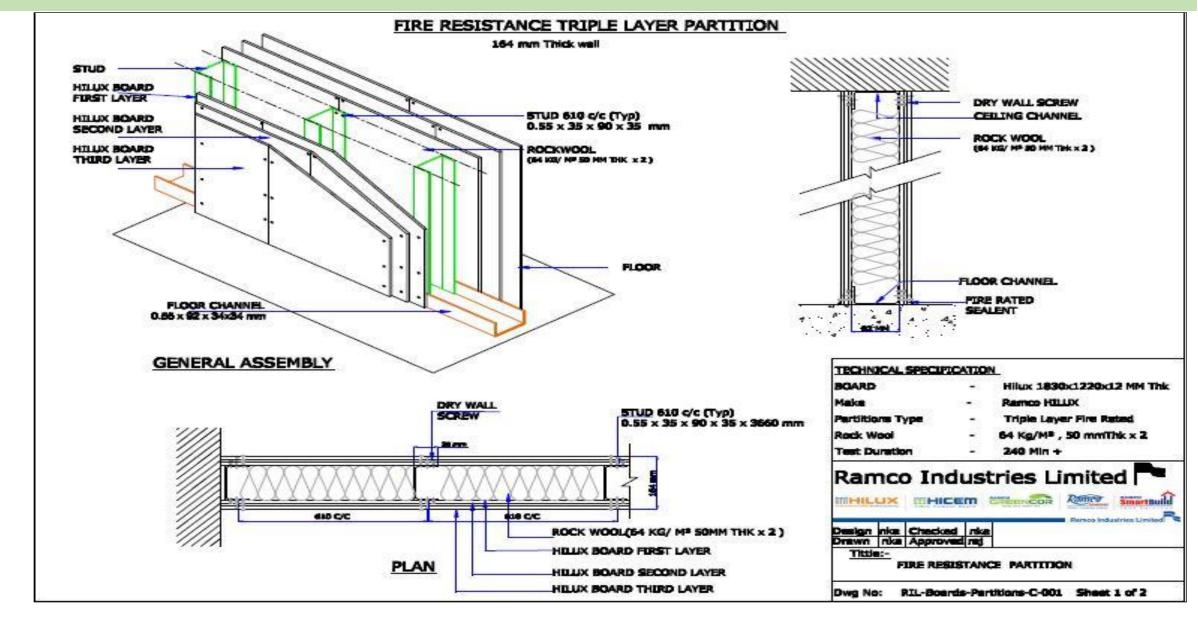
partitions or barriers which have been designed specifically to provide compartmentation between rooms

CHOICE OF A RELIABLE & INTERGRATED SOLUTIONS PROVIDER

# 120 Min Fire Resistant Partition Assembly



# 240 Min Fire Resistant Partition Assembly







**Vertical Structures** 

**Hybrid Spaces** 



Integrated Townships





# Altair Project- Dry Wall & False Ceiling



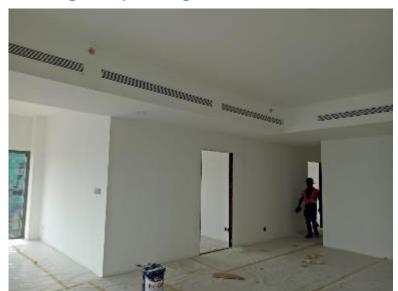
**Framing Work** 



**Jointing Completed Partition Work** 



Single Layer Single side Board Work



Both side completed Boarding Work



**Finished Partition Work** 





### **RAW MATERIALS**









# **WATER USAGE**









ADVANTAGE DRY WALL

**4 Times Lighter** 

# **WEIGHT**







# **SPEED OF CONSTRUCTION**







### **SPACE SAVING**









### FIRE RESISTANCE









**Better Sound Insulation** 

### **SOUND INSULATION OFFERING**





Data used for calculations is based on assumptions and could vary in real time





### **MATERIAL QUALITY**







DRY is better than Wet construction

Paint, Tiles, Laminate and Wall paper can be easily used for final finishing

### **ACCOMMODATION OF SERVICES**





which is both time

consuming and involves

extra cost.

**DRY** Construction

Frame work is designed for Accommodating services. This makes work fast and easy with no additional cost.







Overall cost & time savings & Of Course It is GREEN





# Ramco Hilux

South Asia's only 4-hour fire rated system



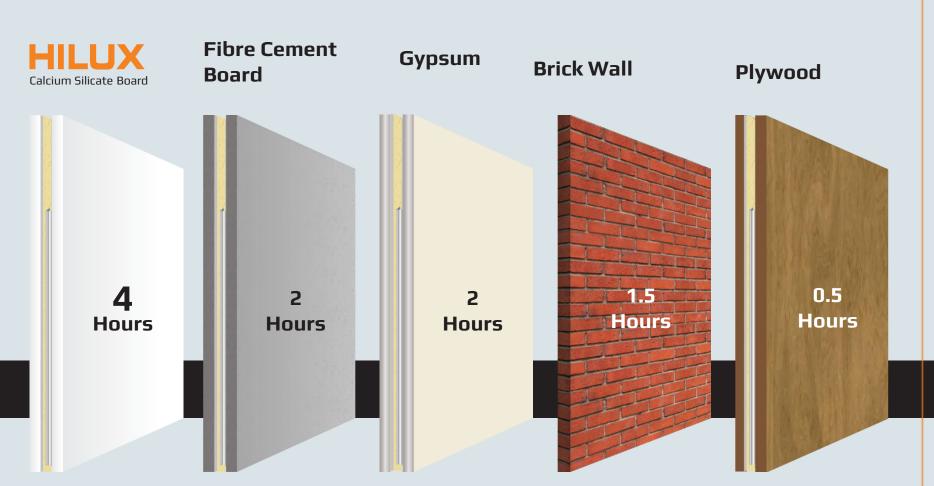


# Ramco Hilux's Superior Fire Resistance

- Unlike other rapid construction materials like plywood and gypsum which can fuel fire, Ramco Hilux is made up of Calcium Silicate which resists fire
- This prevents fire propagation
- The system can withstand fire for 4 hours giving enough time to save lives and goods.







HILUX

٧S

**OTHERS** 

Value: Higher the better





















BS EN 12467: 2012

FIBRE-CEMENT FLAT SHEETS - PRODUCT SPECIFICATION AND TEST METHODS

**British Standards Institution** 











#### **Certifications**













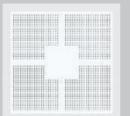






### Boards & Tiles

























**Ceiling Tiles** 







## Range of Applications •











# Ramco now brings you digitally painted boards





HILUX

Ehroma

Officially







Another first!

From Ramco

digitally-printed boards



HILUX

Officially





HILUX

Marble

Malls





HILUX
Visual

Walls





### Our other offerings



**Boards** 

Tiles &

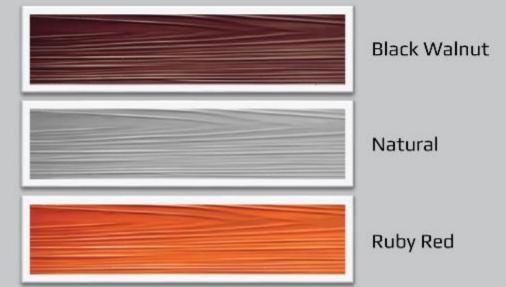
**Planks** 



Tiles



Planks







# A Board for every need

Boards, Tiles & Planks







### Product-as-a-Service -







An end-to-end Services and Solutions initiative for Green Dry Construction





- Design & Material Consultancy
  - Project Execution

Site Quality Assurance

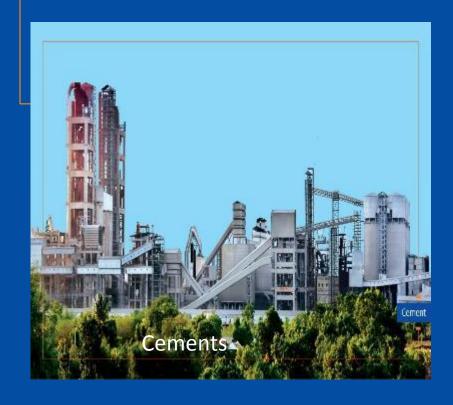
Training in Dry-Construction Methods



## Ramco Industries Limited



is part of the Ramco Group, a US \$ 1 billion industrial conglomerate with business interests in









## THANK YOU

