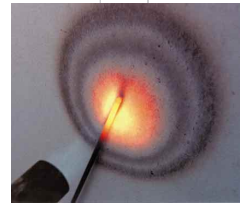
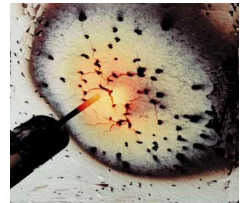


◆ Comparison of different fireproofing materials

■ Comparison of Anti-flammability (1075°C/3 minutes)



Unique's Calcium Silicate Board



Regular Carbon Fiber Board

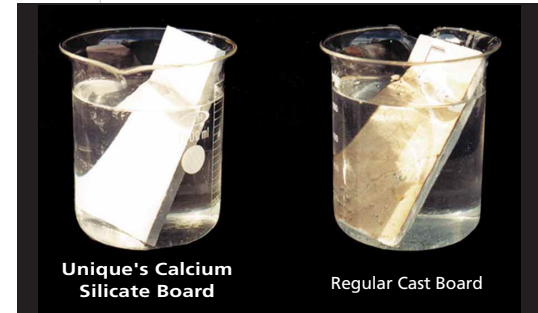


Regular Cement Board



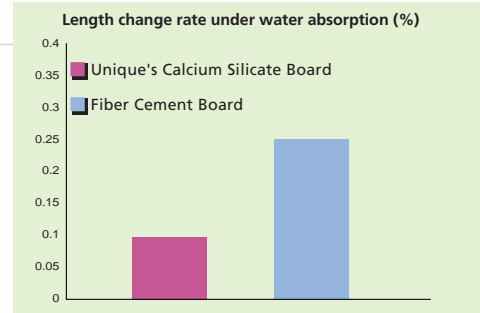
Plastics covered with Cement Silicate Board

■ Comparison of water resistance:

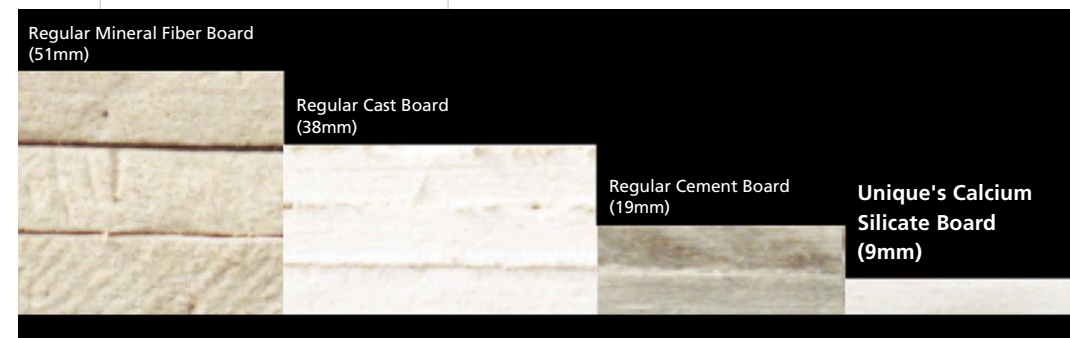


Unique's Calcium Silicate Board

Regular Cast Board



■ Fireproof Thickness Comparison Chart:



◆ Product Specification

Type	Code	Thickness (mm)	Width x Length
0.8FK	3WBCX	6	3ft x 6ft (915mm x 1830mm)
1.0FK	3WBBX	8	
		9	4ft x 8ft (1220mm x 2440mm)
		10	
		12 et	

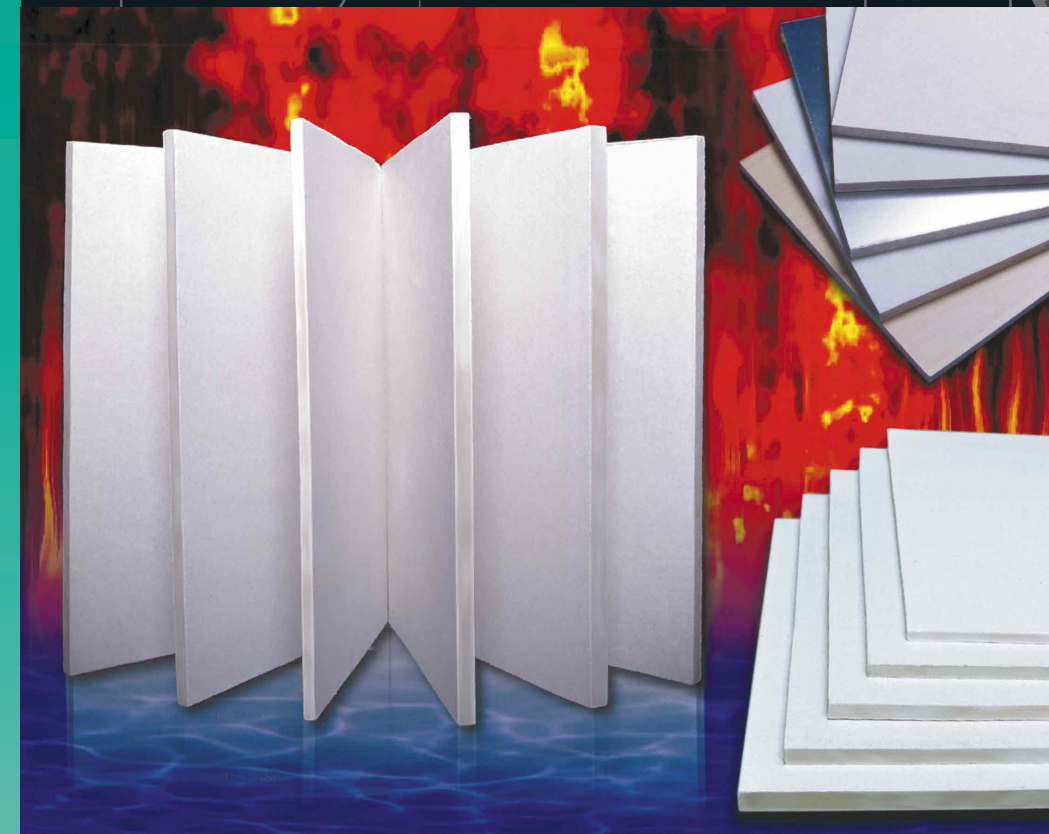
◆ Product Physical Properties

Type	Thickness (mm)	Gravity (g/cm ³)	Flexural strength (kg f/cm ²)		Length Change After Water Absorption (%)	Heat Transfer Coefficient (kg.cal/mh°C)	Flame Retardation
			Longitudinal Section (Machine Direction)	Cross Section (Cross Direction)			
0.8FK	6	0.9-1.2	143 ↑	86 ↑	0.15 ↓	0.21 ↓	Level 1
1.0FK	8						
	9						
	10						
	12	133 ↑	80 ↑				

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UNIQUE CALCIUM SILICATE BOARD



SAFE • FIRE RESISTANT • ENVIRONMENTAL FRIENDLY
 DAMP-PROOFED • SOUNDPROOFED • HEAT-PROOFED

Unique Plastics Corp.

Unique Calcium Silicate Board

With the latest technology, Unique Plastics Corp. has developed Calcium Silicate Board to be used as indoor partition board or interior wall in construction. This material has features such as light in weight, strong in mechanic strength, fireproofing, and insulation against moisture and high temperature. Calcium Silicate Board can be used as indoor partition boards, interior walls or ceilings for different structures such as business buildings, movie theaters, exhibition halls, restaurants, hotels, hospitals, train stations or MRT stations. This material can be used widely in different applications and the construction process is simple. Therefore, Calcium Silicate Board is the most advanced fireproofing material so far.



◆ Descriptions of features

- 1) Fireproofing:** Unique Calcium Silicate Board comprises mainly inorganic material and is produced by a specialized production process. It possesses excellent fire and flame resistance and has passed the tests of CNS 6532 Class 1 flame resistance (>5mm) and CNS 12514 1 hr and 2 hrs fire test.
- 2) Heat resistance:** Low heat conductivity and good capacity in blocking heat.
- 3) Sound isolation:** Excellent sound isolation that efficiently isolates noise > 46dB.
- 4) Damp proofing:** No deformation under sustained damp condition, suitable for tropical climate and having the same adjustment properties as lumber material.
- 5) Stability:** Excellent stability that undergoes minimal expansion or contraction under varying temperature or humidity.
- 6) Easy to construct:** The construction process does not require complicated tools but just ones used in regular wood construction. Calcium Silicate Board can be fixed on suspension ceiling with self-attachable screws or a glue gun to nail the bolts into the wooden frame.
- 7) Environmental friendly:** Calcium Silicate Board is 100% free of asbestos fiber and will not cause any harm to human body or the environment.
- 8) Mold-free:** Calcium Silicate Board provides good insulation against mold, fungus and corrosion. It can last for a long time and will not corrode.

◆ Quality standard

- This product is the first of its kind to win Taiwan's CNS certification. This product's manufacturing process has passed the requirement of BSMI under the Ministry Economics and has received certificate of ISO-9002 and CNS 12682 quality standard.
- Fire test result: In compliance with CNS 6532 Class 1 flame resistance and CNS 1 hour and 2 hours fire performance of indoor partitions.

◆ Applications

- 1) Partitions and inner walls:** The partitions or inner walls for residence, office or other types of building.
- 2) Pipeline and conduit compartment:** The partition and pipeline wrapping in elevator space, Staircases and equipment space.
- 3) Fire Walls:** Partition in public places or fireproof area.
- 4) Ceilings:** Indoor ceilings of flat or ornamented styles.

