PROACTIVE FIRE PROTECTION SYSTEMS

Fire-rated Partition Applications
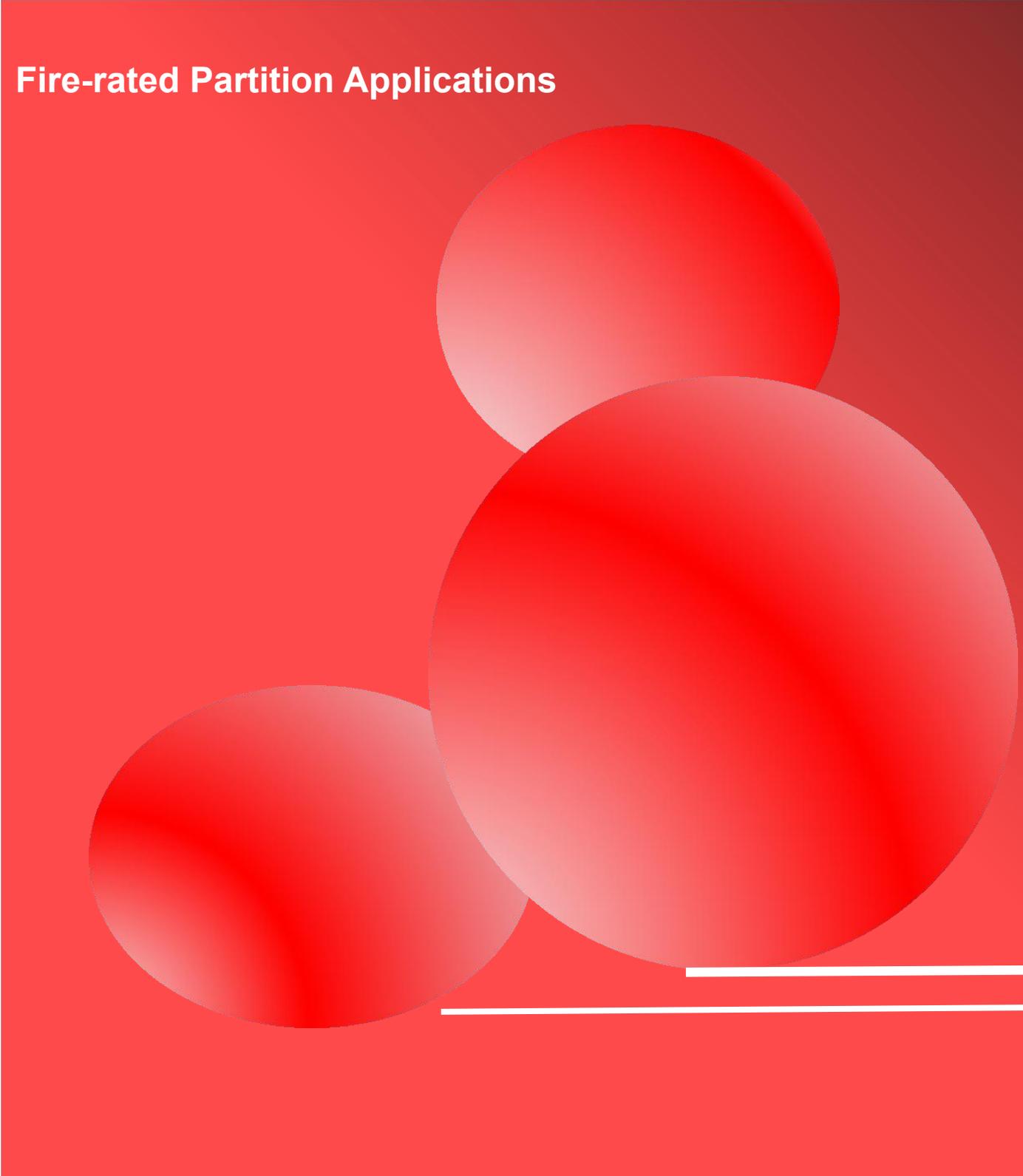
Red moat ® Proactive Fire Protection Systems

ISC ISO 9001 : 2015

ISC ISO 14001:2015

Star Beat Drywall & Ceiling Supplies

INTRODUCTION

Red moat® Firetech is a high performance calcium silicate engineered fireproof board. Manufactured from non-combustible and reusable materials and used a special technology and formula to offer an excellent thermal and fire insulation with stable and steady performance, Red moat® Firetech is ideal for the place where fire safety is essential and indispensable.
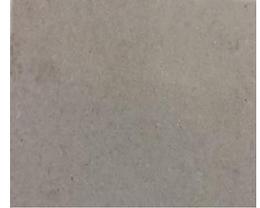
RED MOAT BOARD

Apart from its superior thermal resistance, Red moat® Firetech board is also excellent at water resistance and sound insulation with high impact strength and durableness. It contains no asbestos, harmful substances and free of formaldehyde and toxic emissions. Furthermore, it can be easily sawn, bevelled, drilled, screwed and machined with traditional machines, tools and techniques, making it perfect choice for partitions, ceilings, fire doors, ducting works and E&M services . With special design of the surface, Red moat® Firetech board is ready for tiling, painting, attaching wallpaper and other finishings.

Red moat® 2 and 4 hours Partition, Suspended Ceiling and E&M Services Enclosures fire-rated systems were tested in accordance with BS 476: Part 20 & Part 22 by local renowned fire testing labs with HOKLAS accreditation.

CHARATERISTICS

- Superior Heat Insulation
- Excellent Fireproofing Performance
- Superior Water Resistance
- Superior Weather Resistance
- Excellent Sound Absorption and Insulation
- Mold Resistance
- Energy Saving
- Dimensional Stability
- Low Shrinkage
- High Compressive Strength
- Ready for Tiling, Painting, Attaching Wallpaper and other Finishings
- Durable
- Easy to use

General Information

APPLICATIONS

- Partition
- Ceiling
- Ductwork
- E&M Services Enclosure
- Smoke Barrier
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- Access Panel
- Floor
- Hoarding
- Structural Steel/Beam
- Roof
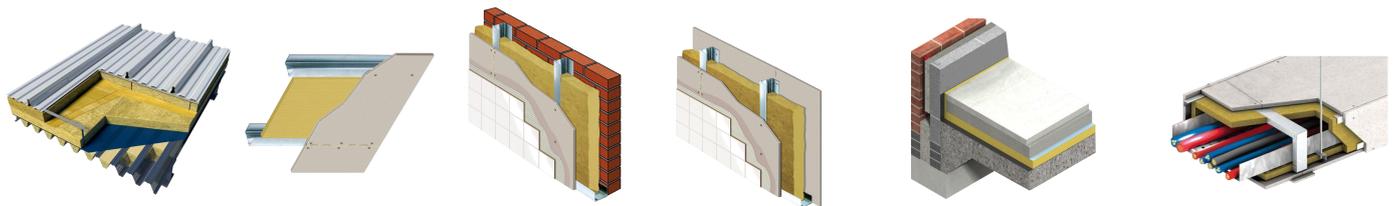
| Roof | Ceiling | Wall | Partition | Floor | E&M Services Enclosure |

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DIMENSIONS

Length x Width(mm)	Thickness(mm)	Density(kg/m³)
1220x2440	9，12	800

* other sizes and thickness available upon request.

PACKAGING

During the transportation and storage, Red moat® Firetech board must be protected and should be kept in dry, ventilated place.

Red moat®

Red moat® Firetech board meets the test of ASTM C656 Standard Specification for Structural Insulating Board, Calcium Silicate.

No.	Description	Test Method	Test Result
1	Dimention	ASTM C303-10	9mm
2	Density	ASTM C303-10	800kg/m³
3	Asbestos Test	ISO 22262-1	Nil
4	PH Value	CAN MB5	10
5	Moisture Content	ASTM C1616-07	0.128
6	Compressive Strength at 5% Deformation	ASTM C165-07	1154 KPa
7	Flexural Strength	ASTM C203-05a	11.1MPa
8	Core Shear Ultimate Strength	ASTM C393 C393M-16	0.285KPa
9	Thermal Conductivity	ASTM C177-19	0.159W/(m.K)
10	Thermal Resistance	ASTM C177-20	0.121(m²K)/W
11	Fire Classification of Construction Product	EN 13501-1 2018	A1
12	Fire Classification Building Materials and Product	GB 8624 2012	A(A1)
13	Non-combustible Material	BS 476-4	Pass
14	Fire Propagation Test	BS 476-6	0.7
15	Surface Flame Spread	BS 476-7	Class 1
16	2 Hrs Insulated Partition	BS 476-22	Pass
17	5 Hrs Insulated Partition	BS 476-22	Pass

Red moat® Partition System meets 2 hours Insulation and Integrity Standard of BS 476:Part 20 and Part 22.

2 Hours Fire Protection Wall with STC 46

Ceiling

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Thickness	:	86mm
Face Layer Board	:	9mm
Fillet	:	100mm wide 9mm thick
Top & Bottom Runner	:	35x50x35x0.5mm
Metal Stud	:	50x50x50x0.5mm
Rock Mineral Wool	:	50mm/80kg/m³
Face Layer Board	:	9mm
Fillet Fixing	:	M4 25mm self-tapping screws 250mm c/c
Board Fixing	:	M4 25mm self-tapping screws 250mm c/c
Runner Fixing	:	M6 anchor bolt at 610mm c/c

Floor
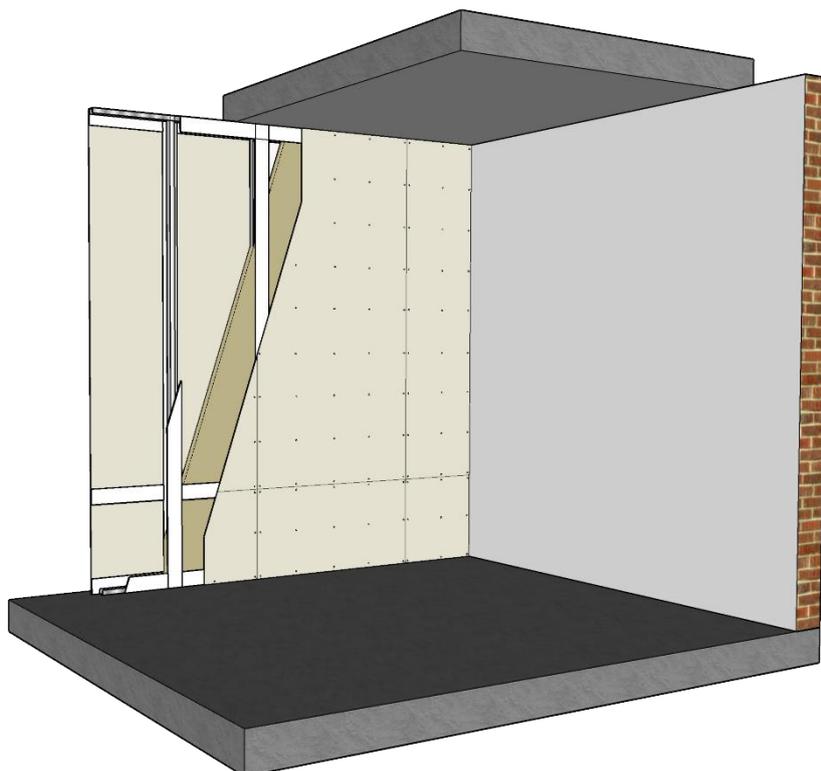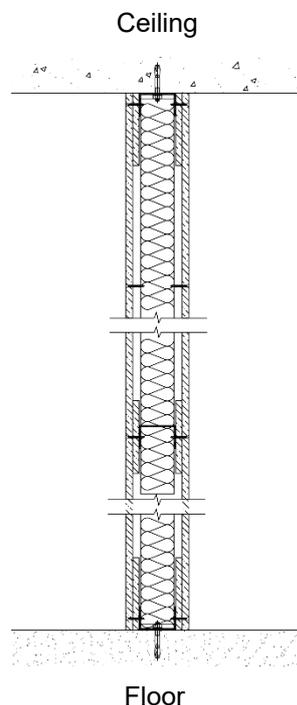
Red moat® Partition System meets 4 hours Insulation and Integrity Standard of BS 476:Part 20 and Part 22.

4 Hours Fire Protection Wall with STC 53

Ceiling

Thickness	: 136mm
Face Layer Board	: 2 layers of 9mm
Top & Bottom Runner	: 40x100x40x0.6mm
Metal Stud	: 50x100x50x0.6mm
Rock Mineral Wool	: 2x50mm/100kg/m³
Face Layer Board	: 2 layers of 9mm
Board Fixing	: Inner, M4 25mm self-tapping screws
	Outer, M4 38mm self-tapping screws 250mm c/c
Runner Fixing	: M6 60mm anchor bolt at 610mm c/c

Floor
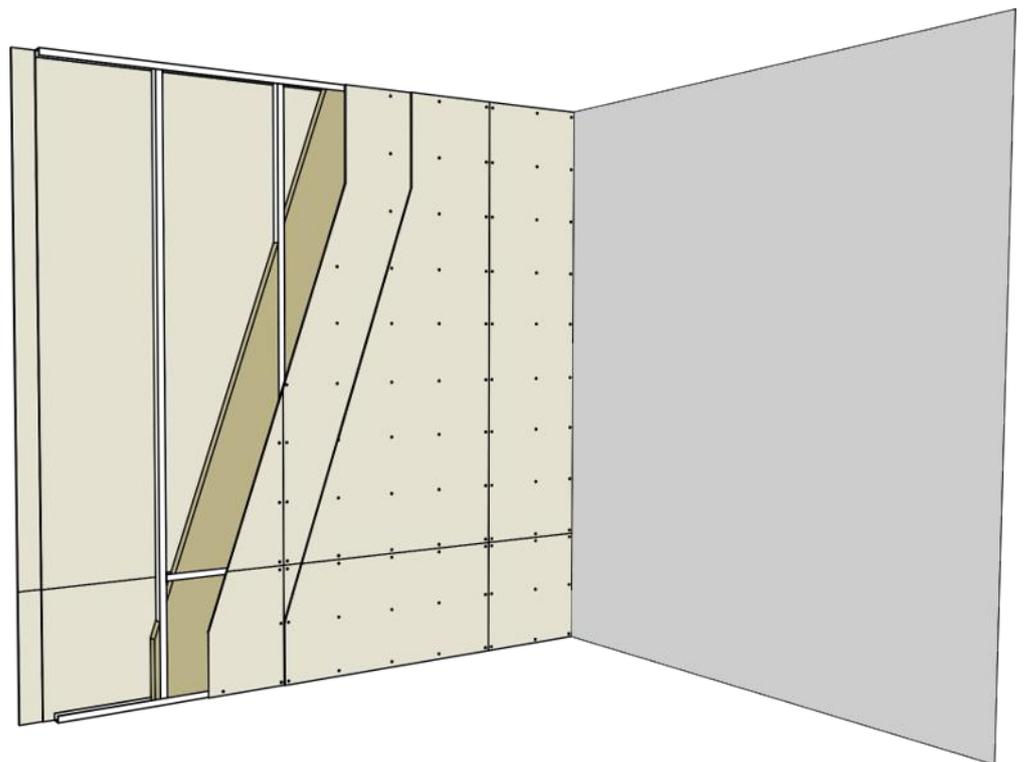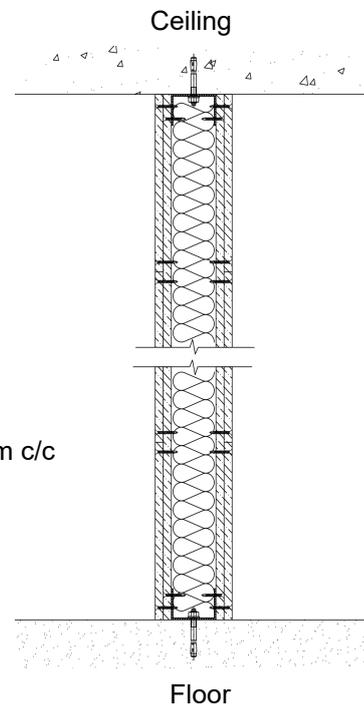
Star Beat Building Materials Limited

Flat C, 10/F, Supreme Industrial Building
15-17 Shan Mei Street, Fotan, Shatin
N.T., Hong Kong
Tel : (852) 3617 9160   Fax: (852) 3617 9220
Email : info@star-beat.com
Website : www.star-beat.com

Star Beat