

# DuraWall™

The DuraWall system is built around a steel-faced composite panel with a non-combustible mineral fibre core. This is ideally suited for the construction of non-load bearing walls and offers an “any climate” dry installation. Of its many features the DuraWall is re-locatable and re-useable, something few fire rated wall assemblies offer.



### KEY FEATURES

- Fire resistance of up to 2 hours
- A high-performance, easy-to-install interlocking joint
- Internal and external protection
- Innovative design
- Manufactured with a proven non-combustible structural core
- Low smoke risk
- Environmentally sustainable
- Thermally efficient
- Provides exceptional noise attenuation
- Easy installation
- Improved fire protection over foam insulation panels
- Superior shear connection
- Impervious to water and moisture the DuraWall panel will not encourage the growth of mould or bacteria

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### Benefits of the DuraWall

- Reduces installation and schedule time
- Predictable—simple and easy to install allowing for more accurate project completion dates
- Large manufactured components deliver consistent high standards of quality and performance
- Total design for wall and penetrations with guaranteed performance
- Cost competitive in many applications, both for new and retrofit projects



Our DuraWall offers a total design solution so that the required passive fire protection can be guaranteed. Longer spans and pre-finished, high quality panels can dramatically reduce project times.

The DuraWall has been developed with durability, structural and fire performance in mind. The panels are ideally suited for the construction of non-load bearing internal partition walls that require a tested fire resistance in order to perform as firewalls and compartmental walls. Manufactured using metal facings bonded to a high density structural mineral fiber core offering exceptional spanning characteristics.

### *Fire Safe*

The DuraWall composite wall panel system is manufactured with a proven non-combustible structural mineral fibre core.

### *Noise Attenuation*

DuraSystems range of composite wall panels offer acoustic solutions.

### *Environmentally Sustainable*

DuraWall cores are zero ODP and free of HCFC's. At the end of it's useful life, the insulation can be reprocessed into further energy saving insulation.

### *Smoke Safe*

Smoke not only causes risk to health and hinders escape, but products that give off large volumes of smoke can also cause major inventory losses. DuraWall mineral fibre core is non-combustible and will therefore cause little to no smoke damage.



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## DuraWall Panel Specifications

### *Core Material:*

The core material is high quality, non-combustible mineral fibre, which means it does not ignite and will not contribute heat to a fire. It will also produce very little smoke and toxic fumes. The special mineral fibre has a predominately vertical fibre structure, which provides high shear, compression and tensile strengths. A specially developed adhesive which is resistant to elevated temperatures keeps the insulating core bonded to the unexposed face sheet during a fire.

### *Panel Joint:*

The DuraWall panel joint is specially designed to be tight, thus preventing penetration of smoke and hot gases in a fire situation.

### *Panel Finishes:*

Available in range of colours with the standard colour being white. All colours finishes are specially formulated with a 25 micron coating providing excellent durability and maintenance free long life. Available in a smooth finish, the system includes an anti-corrosive primer for added protection. Other finishes and options can be provided on request. These include; foodsafe laminate, Assure antibacterial coating and primer coated galvanized.

## DuraWall Doors

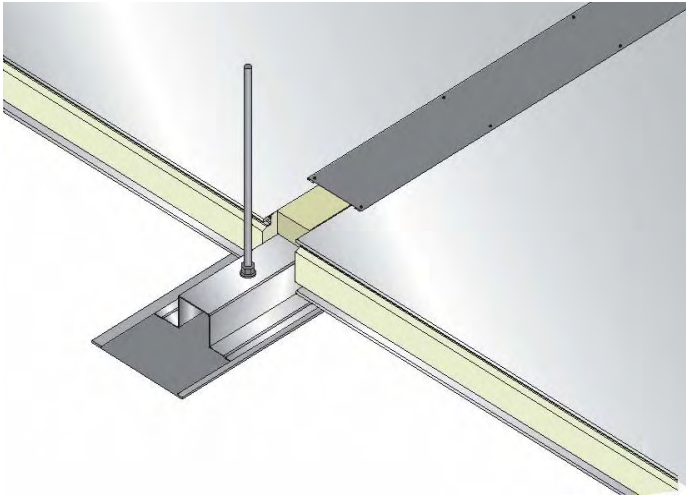
Our DuraDoor Insulated Sliding Door is the first of it's type to attain LPCB Product approval and achieve 1 hour insulation and integrity.

The ideal insulated sliding door for all cooler applications.

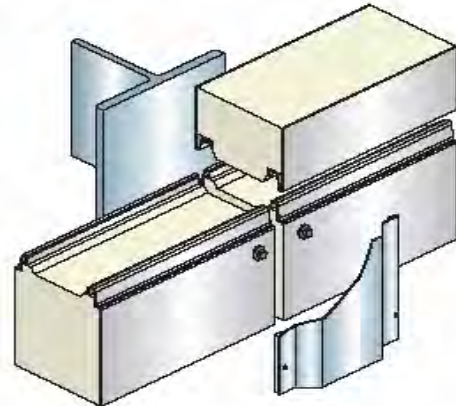
**Contact DuraSystems for more  
Information.**



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**Ceiling Panels**



**DuraWall Joints**

<b>PRODUCT DETAILS:</b>					
<b>Product</b>	<b>Fire</b>	<b>Thermal</b>	<b>Acoustics</b>	<b>Weight</b>	
<b>Size</b>	<b>Protection</b>	<b>R-Values</b>	<b>Sound Reduction Index (db)</b>	<b>kg/m2</b>	<b>lb/sq'</b>
100mm 4"	45 mins	R-15	30.2	21.84	4.47
150mm 6"	2 hours	R-23	31.8	31.90	7.91

## **THERMAL**

The above R-Values have been calculated using a plain element approach and do not take into account any thermal bridging through the joint.

## **ACOUSTICS**

All calculations based on the following panel construction:

External face: 0.5mm thick steel  
Core: 135Kg/m3 mineral fibre  
Internal face: 0.5mm steel

# DuraWall™

International Testing  
& Acceptance



In today's insurance industry the formation of fire compartments in buildings is one of the most highly discussed issues. With the current confusion surrounding composite sandwich panels, clear guidance on when and where to install fire barriers is required.

The DuraWall is available in a white finish. Other colors and finishes are available by special order.

#### AVAILABLE SIZES:

4" thick - 1 hour fire rated wall  
6" thick - 2 hour fire rated wall

The benefits of compartmentation are numerous, some of which are shown below

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- Fire barriers prevent the spread of fire throughout a building
- A correctly installed barrier will prevent the contamination of stored materials or equipment by smoke or water during the fire
- Compartmentation allows sprinklers in the fire compartment to reduce or eliminate the effect of the fire on other parts of the building





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