

# Multiframe™

Timber Framed Class 2&3 buildings



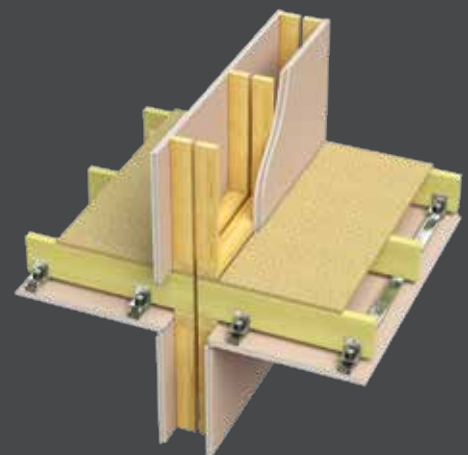
USG Boral Multiframe™ comprises a range of timber framed plasterboard wall and ceiling systems satisfying fire rating and acoustic requirements of the BCA for Class 2&3 buildings.

Multiframe™ offers a cost effective alternative to the traditional concrete and masonry construction and provides a number of options for separating walls between single occupancy units, corridor walls, floor-ceilings and external walls.

Multiframe™ can be used in Class 2&3 buildings up to 3 storeys or up to 4 storeys if the lower storey is used for car parking or other ancillary purpose and constructed out of concrete or masonry (refer BCA for lower storey fire resistance requirements)

## Features & Benefits







- Lightweight
- Cost-effective
- Meets BCA Fire and Acoustic requirements
- Readily available materials and skills
- Back-up by USG Boral engineers







# Multiframe™ Systems.

Provided below are some examples of Multiframe™ systems. For full range of Multiframe™ systems refer Multiframe™ brochure.

## Multiframe™ Wall Systems

Separating Walls		Corridor Walls		External Walls		
FRL	Assembly	System Reference	Assembly	System Reference	Assembly	System Reference
FRL 60/60/60		<b>TT1616F</b> <ul style="list-style-type: none"> <li>- 1x16mm Firestop® plasterboard</li> <li>- timber stud</li> <li>- 20mm min gap</li> <li>- timber stud</li> <li>- 1x16mm Firestop® plasterboard</li> </ul>		<b>TF1616F</b> <ul style="list-style-type: none"> <li>- 1x16mm Firestop® plasterboard</li> <li>- timber stud</li> <li>- 28mm steel furring channel on furring channel clips</li> <li>- 1x16mm Firestop® plasterboard</li> </ul>		<b>OW16WF16F</b> <ul style="list-style-type: none"> <li>- Cladding, battens and Tyvek® HomeWrap® membrane</li> <li>- 1x16mm Wet Area Firestop™ plasterboard</li> <li>- timber stud</li> <li>- 1x16mm Firestop® plasterboard</li> </ul>
FRL 90/90/90		<b>TT2626F</b> <ul style="list-style-type: none"> <li>- 2x13mm Firestop® plasterboard</li> <li>- timber stud</li> <li>- 20mm min gap</li> <li>- timber stud</li> <li>- 2x13mm Firestop® plasterboard</li> </ul>		<b>TF2626F</b> <ul style="list-style-type: none"> <li>- 2x13mm Firestop® plasterboard</li> <li>- timber stud</li> <li>- 28mm steel furring channel on furring channel clips</li> <li>- 2x13mm Firestop® plasterboard</li> </ul>		<b>OW26WF26F</b> <ul style="list-style-type: none"> <li>- Cladding, battens and Tyvek® HomeWrap® membrane</li> <li>- 2x13mm Wet Area Firestop™ plasterboard</li> <li>- timber stud</li> <li>- 2x13mm Firestop® plasterboard</li> </ul>

## Multiframe™ Floor/Ceiling Systems

Hardwood Floors with Acoustic Underlay		Carpeted Floors with Acoustic Mounts		Tiled Floors with Acoustic Mounts	
FRL RISF	Assembly	System Reference	Assembly	System Reference	System Reference
FRL 60/60/60 from below RISF 30min		<b>HCF26F</b> <ul style="list-style-type: none"> <li>- 15mm or 18mm thick Engineered Flooring, 18mm thick Parquetry, 10mm or 13mm thick Overlay Solid Strip Flooring (8.5kg/m²)</li> <li>- Regupol 4515-4.5mm Impact Sound Acoustic Underlay (1.7kg/m²)</li> <li>- Minimum 19mm particleboard flooring (12.8kg/m²)</li> <li>- 190mm to 240mm deep joists</li> <li>- 28mm furring channel @ 600mm ctrs housed in a direct fixing clip arrangement</li> <li>- 2x13mm Firestop® plasterboard</li> </ul>		<b>CCF26F</b> <ul style="list-style-type: none"> <li>- Carpet + Underlay</li> <li>- Minimum 19mm particleboard flooring (12.8kg/m²)</li> <li>- 190mm to 240mm deep joists</li> <li>- 28mm furring channel @ 600mm ctrs housed in a direct fixing clip arrangement</li> <li>- 2x13mm Firestop® plasterboard</li> </ul>	<b>TCFA26F</b> <ul style="list-style-type: none"> <li>- 6mm thick ceramic floor tiles laid on nom 6mm thick cement sheet (total mass nom 15kg/m²)</li> <li>- Minimum 19mm particleboard flooring (12.8kg/m²)</li> <li>- 190mm to 240mm deep joists</li> <li>- Boral Acoustic Ceiling Mounts or Embelton Ceiling Isolation Hangers</li> <li>- 28mm furring channel @ 600mm ctrs</li> <li>- 2x13mm Firestop® plasterboard</li> </ul>
FRL 90/90/90 from below RISF 60min		<b>HCF32F</b> <ul style="list-style-type: none"> <li>- 15mm or 18mm thick Engineered Flooring, 18mm thick Parquetry, 10mm or 13mm thick Overlay Solid Strip Flooring (8.5kg/m²)</li> <li>- Regupol 4515-4.5mm Impact Sound Acoustic Underlay (1.7kg/m²)</li> <li>- Minimum 19mm particleboard flooring (12.8kg/m²)</li> <li>- 190mm to 240mm deep joists</li> <li>- 28mm furring channel @ 600mm ctrs housed in a direct fixing clip arrangement</li> <li>- 2x16mm Firestop® plasterboard</li> </ul>		<b>CCF32F</b> <ul style="list-style-type: none"> <li>- Carpet + Underlay</li> <li>- Minimum 19mm particleboard flooring (12.8kg/m²)</li> <li>- 190mm to 240mm deep joists</li> <li>- 28mm furring channel @ 600mm ctrs housed in a direct fixing clip arrangement</li> <li>- 2x16mm Firestop® plasterboard</li> </ul>	<b>TCFA32F</b> <ul style="list-style-type: none"> <li>- 6mm thick ceramic floor tiles laid on nom 6mm thick cement sheet (total mass nom 15kg/m²)</li> <li>- Minimum 19mm particleboard flooring (12.8kg/m²)</li> <li>- 190mm to 240mm deep joists</li> <li>- Boral Acoustic Ceiling Mounts or Embelton Ceiling Isolation Hangers</li> <li>- 28mm furring channel @ 600mm ctrs</li> <li>- 2x16mm Firestop® plasterboard</li> </ul>

**Note:** Refer Multiframe™ brochure for wall width and cavity insulation requirements needed to achieve required acoustic ratings