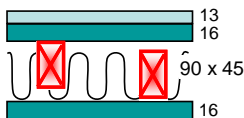


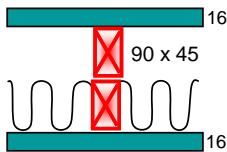
## USG powerscape® Peacekeeper® 140 and 217 Intertenancy acoustic fire wall system

### Peacekeeper® 140 Discontinuous PRT60StB



Wall depth 140 mm  
Fire -/60 /60  
 $R_w + C_{tr}$  51

### Peacekeeper® 217 Discontinuous PRT60DoB



Wall depth 217 mm  
Fire 60/60 /60  
 $R_w + C_{tr}$  51

## Application and Main System Components

The USG Powerscape® Peacekeeper® 149 and 217 wall systems are used between occupancies in timber framed structures. The 140 is a non-load bearing staggered stud wall system of 140 mm thickness, and the 217 a load bearing double stud system with wall thickness of 217 mm. Both have a fire rating of 60 minutes, and inter-tenancy compliant acoustic ratings of  $R_w + C_{tr}$  greater than 50, and with discontinuous construction, to satisfy impact sound regulations.

- USG Powerscape Health® 13 and 16 mm wall linings.
- Timber studs – staggered 90 mm deep studs at 600 centres for the Peacekeeper® 140, or double 90 x 45 mm studs at 600 mm centres for the Peacekeeper® 217.
- Cavity insulation – either 95 mm thick polyester or 75 mm glass wool of density 10 kg/m<sup>3</sup>
- Fire rated (60 minute) acoustic sealant.

## Performance

- Thin – wallprint is only 140 mm non-load bearing, and 217 mm load bearing.
- Easy installation – the intertenancy wall linings are fixed in sequence with the other linings.
- Proprietary USG Powerscape wall lining – much stiffer and stronger than equivalent thickness gypsum wallboard delivering a quality solid wall feel despite the slender wall profile and stud orientations.
- Lining has a paper-free mineral surface. All joints have rebates and reinforcing for added crack resistance and finishing in the plane of the wall. Can be specified for either level 4 or 5 finish.
- Can be used in wet or dry areas.
- Light – only 63 kg/m<sup>3</sup> for the Peacekeeper® 140 and 52 kg/m<sup>2</sup> for the Peacekeeper® 217.
- Fire – 60 minute rated.

## Installation

- Safe – linings are free from known health risks of formaldehyde and crystalline silica dust.
- Safe – no very heavy lifting as lining sheets are only 15 kg/m<sup>2</sup> (16 mm) and 12 kg/m<sup>2</sup> (13mm).
- Orientation flexibility – linings can be either horizontally or vertically fixed.
- Fast – dry trade speed and installation simplicity with no wet trade mess.
- Workability – linings can be sized with multi-score and snap virtually dust free, or with wood working tools using dust management.
- Surface – joints and paints like plasterboard but with all joints rebated, reinforced and finished in the plane of the wall, and with better paint coverage.

## Key Benefits

- Quality Walls – with double the strength of the same thickness plasterboard and much greater stiffness delivering the all important quality wall feel.
- Installation efficiency – intertenancy frames and linings fixed in sequence with all others.
- Used in wet or dry areas.
- Quality surface finish – specify either level 4 or level 5 as required
- Possible green building points from the recycled content of USG Powerscape linings



## Building Code of Australia, Summary Requirements

Typical Building Code of Australia fire and acoustic requirements for walls between tenancies in Class 1, 2 and 3 buildings:

<b>Fire</b>	Depends on the number of storeys and wall position, typically for up to 3 storeys the required rating is 60/60/60, and in non load bearing cases -/60/60. The fire wall system must be continuous up throughout the structure – request floor junction details to ensure this is achieved.
<b>Airborne Sound</b>	$R_w + C_{tr}$ 50 or higher
<b>Impact Sound</b>	When the intertenancy wall separates a living area from a neighbours sanitary areas then discontinuous construction is required

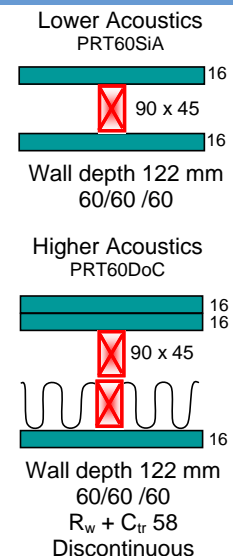
## Wall Design Upgrades, and Alternative Options

**Wall thickness options:** Both the USG Powerscape Peacekeeper® 140 and 217 wall systems can be constructed with a larger separation gap in the wall, making them 191 mm and 238 mm deep respectively. In this form they gain approximately one extra dB of airborne sound resistance, being then rated at 52. These walls are shown in this wider profile in the general USG Powerscape wall system literature and documentation.

**Higher and Lower fire** – see USG Powerscape wall systems charts available on request, or download from [www.powerscape.com/resources.asp](http://www.powerscape.com/resources.asp).

**Steel Frame** – Ask for the USG Powerscape Peacekeeper® 156 Intertenancy Wall System Quick Facts.

**Abuse Resistant:** USG Powerscape Health® are abuse resistant linings which are stronger than scrim reinforced plasterboard. Health® 13 mm can also be specified as Ultra-Mesh grade in exceptionally demanding applications.



## Support Services Available for Designers, Builders and Installers

Powerscape supports designers through the design and approval process with all needed information. Ask in particular for the following materials as required:

- Single Page Wall System Specifications
- Fire and Acoustic Code Performance Documentation
- Fire Penetration Designs
- Eco-Preferable Environmental Third Party Assessment Data
- Wall Lining Recycled Content Certification
- Additional junction details are available on request according to the need

## Questions

Need an acoustic and fire rated wall system not shown here? Then check the system range printed in the back of the USG Powerscape Health® Full Story brochures, or check on [www.powerscape.com](http://www.powerscape.com), at the Literature Resources page, for a current list of all wall systems – or call 1800 226 215 for technical assistance.