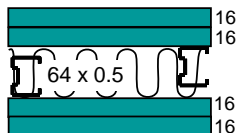


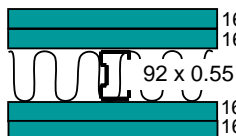
USG powerscape® Peacekeeper® 156 Intertenancy acoustic fire wall system

Peacekeeper® 156 Discontinuous PRS120StA



Wall depth 156 mm
- / 120 / 120
 $R_w + C_{tr}$ 55

Peacekeeper® 156 Single Stud PRS120SiB



Wall depth 156 mm
- / 120 / 120
 $R_w + C_{tr}$ 51

Application

The USG Powerscape® Peacekeeper® 156 wall is used between occupancies in multi-level concrete structures. Both single stud and a discontinuous staggered stud wall option are available with the same very thin finished wall profile of 156 mm.

Main System Components

- USG Powerscape Health® 16 mm wall linings
- Steel studs - either 92 mm studs at 600 mm centres – or staggered 64 mm studs at 600 mm centres either side of the wall with stud-clips and discontinuous perimeters.
- Cavity insulation – either 95 mm thick polyester of density 10 kg/m³ – or 75 mm glass wool of density 10 kg/m³
- Fire rated (120 minute) acoustic sealant

Performance

- Thin – wall print only 156 mm
- Light – only 63 kg/m³
- Superior Acoustic Comfort – single stud wall system above compliance minimum and staggered stud wall system 5 dB above
- Fire – 2 hour rated -/120/120 (see reverse for lower rated system options)
- Impact Strength – double that of plasterboard
- Stiffness – exceptionally stiff delivering low deflection and solid-wall feel
- Quality Finish – can be specified for either level 4 or level 5
- Eco-Preferred – USG Powerscape Health® wall linings are manufactured from 95 % recycled content

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/m²
- 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

- Walls occupy very little floor space – higher net useable area
- Possible savings on cost of foundations due to light system weight
- Quality solid-wall feel and outstanding impact resistance
- Quality surface finish – specify either level 4 or level 5 as required
- Fast to install
- Possible green building points from the recycled content of USG Powerscape linings
- Acoustic performance 5 dB above code minimum with staggered stud system

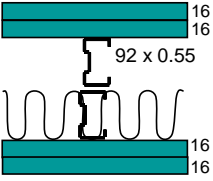
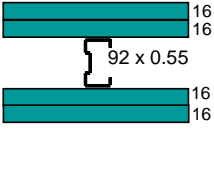
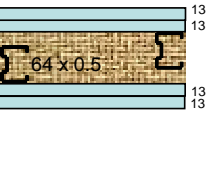
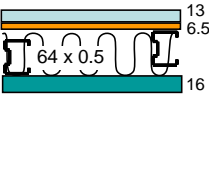
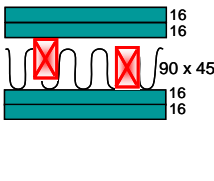


Building Code of Australia, Summary Requirements

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

Fire	Depends on the number of storeys and wall position, typically for 3 or more storeys the required rating is - / 120 / 120
Airborne Sound	$R_w + C_{tr}$ 50 or higher
Impact Sound	When the intertenancy wall separates a living area from a neighbours sanitary areas then discontinuous construction is required

Wall Design Upgrades, and Alternative Options

Higher Acoustic PRS120DoA	Lower Acoustic PRS120SiA	Lower Fire (90) PRS90StA	Lower Fire (60) PRS60StG	Timber Frame) PRT120StA
				
Wall Depth 269 mm - / 120 / 120 $R_w + C_{tr}$ 64 Discontinuous	Wall Depth 156 mm - / 120 / 120 $R_w + C_{tr}$ 44 Single Stud	Wall Depth 144 mm - / 90 / 90 $R_w + C_{tr}$ 52 Discontinuous	Wall Depth 128 mm - / 60 / 60 $R_w + C_{tr}$ 50 Discontinuous	Wall Depth 210 mm - / 120 / 120 $R_w + C_{tr}$ 59 Discontinuous

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, at the Literature Resources page, for a current list of all wall systems – or call 1800 226 215 for technical assistance.