



## SoundPro – RW Acoustic Door Sets

Designed and engineered by Australian Architectural Fire Doors.

Creating & maintaining peaceful, noise-free environments.

Minimizing or blocking the transmission of sound & vibration between different spaces.

Suitable for a large range of settings.

Complete & tested system including seals & hardware.

Available in a Range of RW ratings

### Application:

Suitable for all sectors:

- Hotels
- Hospitals & care homes
- Schools, Colleges & Universities
- Factories & Offices
- Social housing
- Public Buildings
- Cinemas and music venues

### Key Benefits:

- Available in wide variety of finishes including; antibacterial, laminate, veneer and steel
- Up to 50% lighter than other acoustic doors
- Available in a range of RW ratings
- Fire Rating of up to 2 hrs
- Ability to include glazing aperture
- Manufactured under ISO 9001 certification
- Independently measured under Australian Standards

### Case Study:

#### *Sound acoustics in classrooms*

Children with auditory centres still developing are more adversely affected by noise than adults.

Queensland's Acoustic Quality Objectives call for a 35 dB for an unoccupied classroom.

According to Massie and Dillion (2006), the median acoustic level of an occupied year 12 classroom in Australia is 68 dB, just 2 dB shy of freeway traffic! In order to be heard a teacher will need to exceed (speech to noise ratio) background noise by 15 dB i.e. to the level of a food processor.

With 45-75% of classroom time spent listening to teacher or classmates the impact of the acoustic environment on learning is considerable

#### Impact on learning environments:

- Reduced Teacher/student engagement (Lubman, 2005)
- Deterioration of student behaviour
- Reduced speech perception: As much as 25% of information can be missed
- Learning outcomes reduced regarding reading skill
- Effect of noise multiplied for ESL, Hearing Deficient and other Learning Impaired students

#### Impact on health within learning environments:

- Increased blood pressure
- Sleep disturbance
- Cognitive impairment in children
- Hearing loss
- Tinnitus
- Mental fatigue
- Teacher burnout
- Cumulative effect of years of excessive noise



**Finishes & Styling:**

Supplied in a wide variety of finishes including: antibacterial laminate, timber veneer and steel.

**Hardware & Seals:**

Each SoundPro door set includes a compliant door frame and specialist set of acoustic perimeter & drop seals, to suit specifications.

**Accessories:**

Vision panels & accessories can be included in your design scope with our tested solutions.



Image: SoundPro Door set undergoing acoustic testing

**Testing & Certification:**

Door-sets are tested by measuring the drop in sound pressure levels between a source room, containing a loudspeaker, and the receiving room containing a microphone. Additionally, acoustically rated fire door-sets are also subject to testing under AS1530.4 2005, certification under AS1905.1 2015 and maintenance under AS1851 2012.

SoundPro door sets are tested in accordance with ISO10140 and their RW calculated in accordance with AS/NZS ISO 717.1, by NATA accredited Resolute Testing Laboratories.

**Australian Standards:**

Our range of fire-rated and non-rated acoustic doors, have been tested in accordance with Australian standard AS ISO 354-2006 to ensure that our doors are manufactured to the highest industry standard. AAFD SoundPro Acoustic Door Set's Satisfy AS 2107-2000 (2000) Australian Building Standards.

*QLD's premier manufacturer providing expertise, quality & compliance*

**Manufacturing Quality:**

- ISO 9001 Certified Quality Management Systems
- ISO 45001 Certified Safety Management Systems
- ISO 14001 Certified Enviro Management Systems
- ISO 26000 Certified Corporate Responsible Business



### Specs - Soundpro Door Sets:

For spaces where fire rating is not a primary concern, our non-rated acoustic doors are an excellent choice. These doors excel in controlling sound transmission, making them ideal for schools, offices, meeting rooms, recording studios, and more.

Product	RW	Fire Rating	Weight	Maximum Size	Door Thickness	Perimeter Seal	Meeting Style Seal	Drop Seal	Threshold Plate	Frame	Test Ref #
SoundPro 35 - Single	Rw35	N/A	22.5kg/m <sup>2</sup>	2100 x 1100	50mm	IS1212 Flexi-Wing	N/A	IS8011si	Flat	2mm Steel Frame, plaster filled	AC-PR124A-JPJ-01 Test AC337DR PKA100AFD R01
SoundPro 35 - Double	Rw35	N/A	22.5kg/m <sup>2</sup>	2100 x 1100 2100 x 1100	50mm	IS1212 Flexi-Wing	IS7061(2-off)	IS8011si	Flat	2mm Steel Frame, plaster filled	PKA100AFD R01
SoundPro 40 - Single	Rw40	N/A	27.3kg/m <sup>2</sup>	2100 x 920	73mm	IS1515 Flexi-Wing IS7087si	N/A	IS8520si	Flat	2mm Steel Frame, plaster filled	AC-PR134A-JPJ-01 Test AC399DR PKA100AFD R02
SoundPro 40 - Double	Rw40	N/A	27.3kg/m <sup>2</sup>	2100 x 920 2100 x 920	73mm	IS1515 Flexi-Wing IS7087si	IS7061(2-off)	IS8520si	Flat	2mm Steel Frame, plaster filled	PKA100AFD R02
SoundPro 45 - Single	Rw45	N/A	47.3kg/m <sup>2</sup>	2100 x 920	73mm	IS0511 IS7087si	N/A	IS8011si IS8520si	Flat	2mm Steel Frame, plaster filled	AC-PR134A-JPJ-01 Test AC400DR PKA100AFD R03
SoundPro 45 - Double	Rw45	N/A	47.3kg/m <sup>2</sup>	2100 x 920 2100 x 920	73mm	IS0511 IS7087si	IS7061(2-off)	IS8011si IS8520si	Flat	2mm Steel Frame, plaster filled	PKA100AFD R03
SoundPro 48 - Single	Rw48	N/A	47.3kg/m <sup>2</sup>	2100 x 920	73mm	IS0511 IS7087si	N/A	IS8011si IS8520si	Flat	2mm Steel Frame, plaster filled	AC-PR134A-JPJ-01 Test AC400DR PKA100AFD R03
SoundPro 48 - Double	Rw47	N/A	47.3kg/m <sup>2</sup>	2100 x 920 2100 x 920	73mm	IS0511 IS7087si	IS7061(2-off)	IS8011si IS8520si	Flat	2mm Steel Frame, plaster filled	PKA100AFD R03

### Specs – Fire Rated Soundpro Door Sets:

Engineered to provide a dual benefit, our fire-rated acoustic doors offer exceptional sound proofing capabilities while also meeting stringent fire safety standards. These doors are constructed using advanced materials that not only minimize noise transmission between rooms but also have a fire-resistant core that can withstand flames, smoke and heat.

Product	RW	Fire Rating	Weight	Maximum Size	Door Thickness	Perimeter Seal	Meeting Style Seal	Drop Seal	Threshold Plate	Frame	Test Ref #
E-Core Residential - Single	RW30	-/120/30	19.3kg/m <sup>2</sup>	2100 x 920	37mm	IS1212 Flexi Wing or IS7025si	N/A	IS8010si, IS8090si or IS8011	Flat	1.1mm Steel Frame, Plaster or Concrete mortar filled	10072013/ct/01
E-Core Commercial - Single	RW30	-/120/30	22.8kg/m <sup>2</sup>	2100 x 920	47mm	IS1212 Flexi Wing or IS7025si	N/A	IS8010si, IS8090si or IS8011	Flat	1.1mm Steel Frame, Plaster or Concrete mortar filled	10072013/ct/01
E-Core Lead Lined - Single	RW39	-/120/30	42.8kg/m <sup>2</sup>	2100 x 920	49mm	LAS1212 Batwing or LAS1812LSS	N/A	LAS8001si	LAS4014si	1.4mm Steel Frame, Plaster or Concrete mortar filled	PKA-A138
E-Core Lead Lined - Double	RW37	-/120/30	42.8kg/m <sup>2</sup>	2100 x 920 2100 x 920	49mm	LAS1212, LAS1515 Batwing or LAS1812LSS	Aluminium T-Bar	LAS8001si or LAS8003si	Flat	1.4mm Steel Frame, Plaster or Concrete mortar filled	PKA-A190
E-Core Interconnecting	RW40	-/120/30	Door A (Steel Lined): 40.1kg/m <sup>2</sup> Door B: 22.8kg/m <sup>2</sup>	Door A: 2051 x 920 Door B: 2051 x 920	47mm	IS1212 Flexi Wing & IS7087si Door B: IS1212 FlexiWing	N/A	Door A: IS8010 Door B: IS8010	Flat	1.5mm Steel Frame, Plaster or Concrete mortar filled	FCO 1776 (Fire) AC-PR0031C-CT-DR (Acoustic) AC145DR9/2017