

Smoke Door Sealing Systems

Fire Engineered - Performance Solutions



These systems may be used where the source of exposure could be from either side of the door opening and can be used where a fire engineered solution may be required. Effective combinations of smoke and acoustic seals tested on solid core doors that meet the requirements for AUS NCC specification C3.4 Deemed-to-Satisfy for smoke doors, UK Approved Document B and NZ Building Code Compliance Document C/AS1 Pt. 6.19.2 (b). Tested to AS 1530.7 and EN 1634-3. All systems open towards positive pressure (fire side).

Smoke Leakage Rates

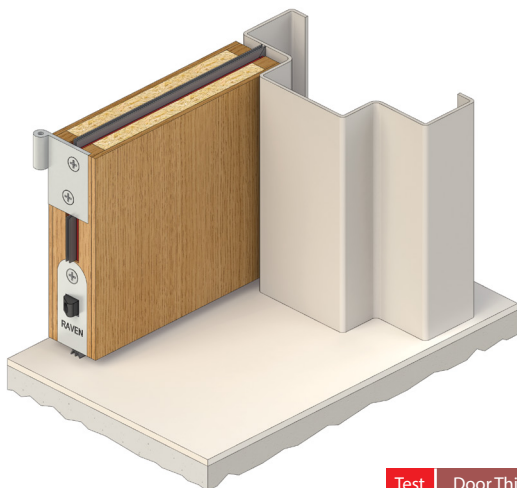
AS1530.7 $\leq 25\text{m}^3/\text{h}$ @ 25 Pa for single doors and $\leq 40\text{m}^3/\text{h}$ @ 25 Pa for double doors when exposed to 200°C for 30 minutes in accordance with AS6905.

EN1634-3 Sa; $\leq 3\text{m}^3/\text{h}/\text{m}$ @ 25 Pa excluding the threshold for ambient. For Sm; $\leq 20\text{m}^3/\text{h}$ @ 50 Pa for single doors and $\leq 30\text{m}^3/\text{h}$ @ ambient and 200°C in accordance with BS EN 13501-2

Test	Exposure	Leakage rate correction	Leakage rate Q (m ³ /h) at a pressure differential of;		
			10 Pa	25 Pa	50 Pa
01	Ambient	*SRC	7.8	13.2	19.3
	Medium 200°C	*SRC	4.4	8.1	15.6
	Medium 200°C > 30 min	*SRC	5.4	10.9	18.3
02	Ambient	*SRC	2.5	4.4	6.8
	Medium 200°C	*SRC	< 2.0	< 2.0	4.2
	Medium 200°C > 30 min	*SRC	4.7	7.9	10.3
03	Ambient	*SRC	0.6	1.2	1.9
	Medium 200°C	*SRC	< 2.0	< 2.0	2.6
	Medium 200°C > 30 min	*SRC	5.1	12.0	19.7
04	Ambient	*SRC	8.0	13.6	20.0
	Medium 200°C	*SRC	4.1	9.9	13.1
	Medium 200°C > 30 min	*SRC	4.6	9.7	13.5

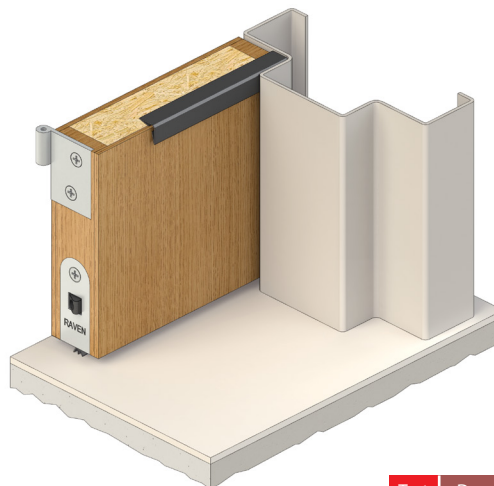
*Standard Reference Conditions

RP76Si RP8Si



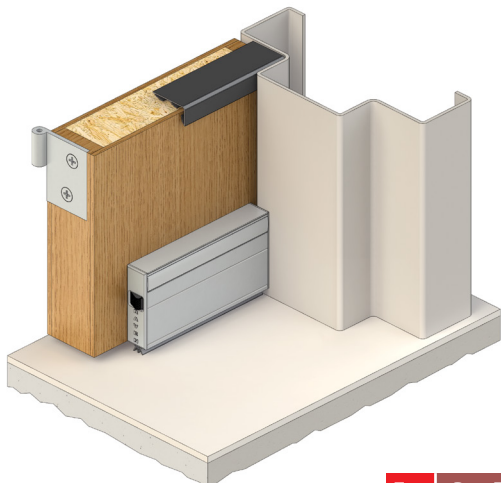
Test	Door Thickness
01	$\geq 35\text{mm}$

RP120 RP8Si



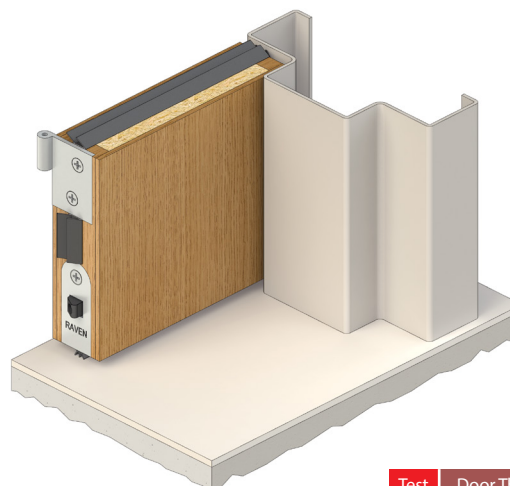
Test	Door Thickness
02	$\geq 35\text{mm}$

RP124 RP35Si



Test	Door Thickness
03	$\geq 35\text{mm}$

RP670 RP8Si



Test	Door Thickness
04	$\geq 35\text{mm}$

Fire and Smoke