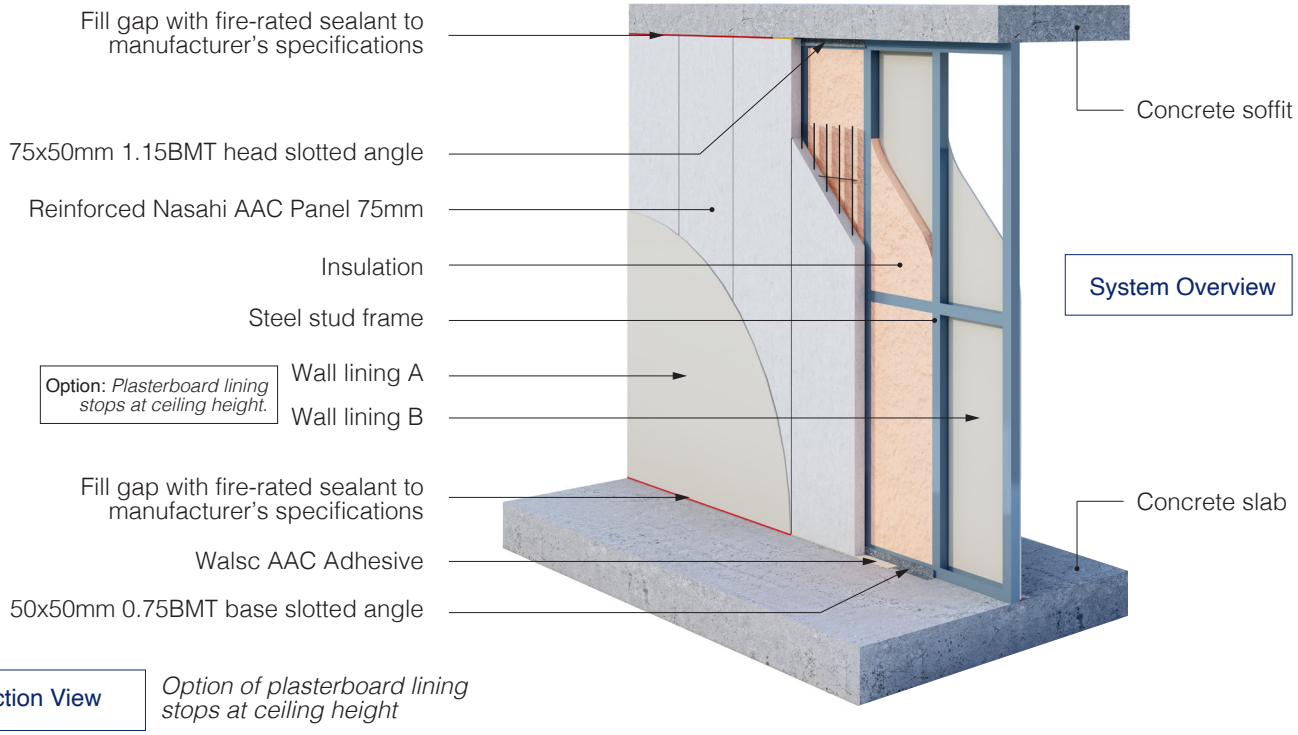
Walsc Internal Wall Systems

Internal Cavity Wall

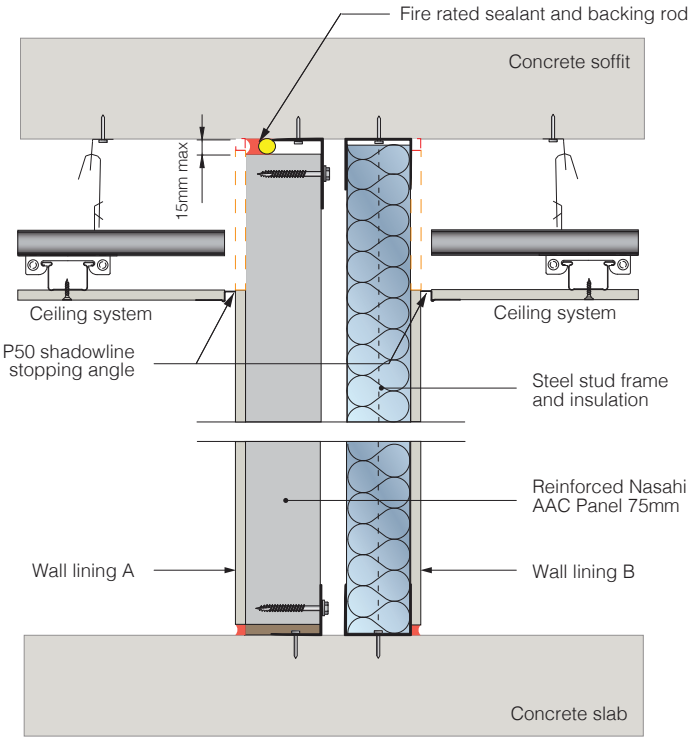
Option 1: Reinforced Nasahi AAC Panel + Separate Stud



System Overview

Section View

Option of plasterboard lining stops at ceiling height



SYSTEM FEATURES

- Rw+Ctr ≥ 50 for walls separating Sole Occupancy Units (SOUs);
- Rw≥ 50 for walls separating SOU with another classification (corridor, stairway,lobby etc.)
- Discontinuous construction therefore can separate wet areas, lift shaft, plant rooms, etc.
- Services can be located in either/both cavities when wall is separating SOU non-habitable area.

Note:

(1). Slotted angle head detail shall be used for FRL great than -/120/120 mins.
(2). The maximum wall height is 3300mm to achieve the FRLs above. For wall height greater than 3300mm, please contact Walsc.
(3). Rw + Ctr values are based on acoustic tests report AC-010-15/CT and acoustic assessment PKA-A158 and have taken into account of curing time.

TYPICAL SYSTEM DETAILS (More options are available in the Design and Installation Guide)

Ref No.	Use	Wall Lining A	AAC Panel	Gap	Steel Stud	Insulation	Wall Lining B	Wall THK.	FRL	R_w/R_w+C_{tr}
WIW 10	Dry/Dry	13mm Standard Plasterboard	Reinforced Nasahi AAC Panel 75mm Square Edge	20mm Cavity for Discontinuous Construction	64mm x 0.50BMT	75mm Glasswool	13mm Standard Plasterboard	185 mm min.	-/90/90	58/51
WIW 11	Dry/Dry	13mm Standard Plasterboard	Reinforced Nasahi AAC Panel 75mm Tongue and Groove			75mm Glasswool	13mm Standard Plasterboard	185 mm min.	-/120/120	58/51
WIW 12	Dry/Wet	13mm Standard Plasterboard				75mm Glasswool	13mm Moisture Resistant Plasterboard	185 mm min.	-/120/120	60/53

Note: *(1) The maximum wall height is 3300mm to achieve the above FRLs. For wall height greater than 3300mm, please contact Walsc.*
(2) Rw/Rw+Ctr values are based on acoustic test report AC-010-15/CT and assessment report PKA-A158 and have taken into account of curing time.
(3) 75mm polyester can replace glasswool while maintaining same Acoustics and FRL ratings.
(4) 9mm fibre cement sheet can replace 13mm moisture resistant plasterboard while maintaining same Acoustic and FRL ratings.