INTRODUCTION
Timber double stud walls are commonly used as separating walls, providing fire safety and acoustic separation between dwellings.

This section only contains construction details for separating walls between dwellings. [For systems and installation, refer to Section 3.1.2]

For an alternative separating wall system, use the innovative Knauf InterHome system. [Refer to the latest InterHome brochure on the website]
3.3.3 Timber Separating Walls

Fire sealant required to maintain fire and acoustic integrity. 5-10mm clearance to plasterboard. Fix 10-15mm from sheet bottom.

Skirting board

FireShield

Sacrificial solid timber blocking to maintain fire rating. Additional to structural timber. Use 1x45mm or 2x35mm thick for FRL 60. Use 2x45mm or 3x35mm thick for FRL 90.

Saw cut in flooring

Floor joists parallel to separating wall

Fill any gaps with fire sealant to maintain fire and acoustic integrity.

FIGURE 1 Separating Wall Base to Slab

FIGURE 2 Separating Wall with Suspended Ground Floor
3.3.3 Timber Separating Walls

Fire sealant required to maintain fire and acoustic integrity.

5-10mm clearance to plasterboard.

Fix 10-15mm from sheet bottom.

Skirting board.

Half-saw cut in flooring.

Floor joists parallel to separating wall.

Engineered timber joist.

Install trimmer for ceiling plasterboard perimeter support.

Sacrificial solid timber blocking to maintain fire rating. Additional to structural timber. Use 1x45mm or 2x35mm thick for FRL 60. Use 2x45mm or 3x35mm thick for FRL 90.

Additional nogging installed to support FireShield and fire sealant.

Fill any gaps with fire sealant to maintain fire and acoustic integrity.

FIGURE 3 Separating Wall with Upper Storey Floor

FIGURE 4 Separating Wall with Upper Storey Floor

Non-fire rated plasterboard.

Sacrificial solid timber blocking to maintain fire rating. Additional to structural timber. Use 1x45mm or 2x35mm thick for FRL 60. Use 2x45mm or 3x35mm thick for FRL 90.

Floor joists parallel to separating wall.

Sacrificial solid timber blocking to maintain fire rating. Additional to structural timber. Use 1x45mm or 2x35mm thick for FRL 60. Use 2x45mm or 3x35mm thick for FRL 90.

Floor joists perpendicular to separating wall.

Engineered timber joist.

Install trimmer for ceiling plasterboard perimeter support.

Sacrificial solid timber blocking to maintain fire rating. Additional to structural timber. Use 1x45mm or 2x35mm thick for FRL 60. Use 2x45mm or 3x35mm thick for FRL 90.

Floor joists perpendicular to separating wall. Minimum joist bearing must be maintained.

Fill any gaps with fire sealant to maintain fire and acoustic integrity.

Additional nogging installed to support FireShield and fire sealant.

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Fill any gaps with fire sealant to maintain fire and acoustic integrity.
3.3.3 Timber Separating Walls

Fill with fire resistant mineral wool to maintain FRL of wall system to non-combustible roof lining.

Roof sarking

5-10mm clearance to plasterboard. Fill with fire sealant to maintain fire and acoustic integrity.

Additional nogging installed to support FireShield and fire sealant.

Fix 10-15mm from plasterboard edge.

Sacrificial solid timber blocking to maintain fire rating. Additional to structural timber. Use 1x45mm thick for FRL 60.

Fill any gaps with fire sealant to maintain fire and acoustic integrity.

5-10mm clearance to plasterboard. Fill with fire sealant to maintain fire and acoustic integrity.

FireShield

**FIGURE 5** Separating Wall with Perpendicular Roof Trusses
3.3.3 Timber Separating Walls

Fill with fire resistant mineral wool to maintain FRL of wall system to non-combustible roof lining.

Roof battens can be continuous over Separating Wall.

Truss parallel to separating wall.

Installing trimmer for ceiling plasterboard perimeter support.

Non-fire rated plasterboard.

Fix 10-15mm from plasterboard edges.

Separating wall continued through roof cavity.

FireShield

Fill any gaps with fire sealant to maintain fire and acoustic integrity.

Roof sarking.

FIGURE 6 Separating Wall with Parallel Roof Trusses
3.3.3 Timber Separating Walls

Truss parallel to separating wall

Separating wall continued through roof cavity

External cladding

Install trimmer for ceiling plasterboard perimeter support

FireShield

Roof sarking

Fix 10-15mm from plasterboard edge

Fill any gaps with fire sealant to maintain fire and acoustic integrity.

Non-fire rated plasterboard

FIGURE 7 Separating Wall to Parapet Roof with Parallel Roof Trusses
3.3.3 Timber Separating Walls

Additional nogging installed to support MultiShield and fire sealant.

2 layers of 16mm MultiShield to maintain FRL 60/60/60 external wall above separating wall

Truss parallel to separating wall

External cladding

Separating wall continued through roof cavity

Fill with fire resistant mineral wool to maintain FRL of wall system to non-combustible roof lining

Non-fire rated plasterboard

Fix 10-15mm from plasterboard edge

5-10mm clearance to plasterboard. Fill with fire sealant to maintain fire and acoustic integrity.

Additional nogging installed to support MultiShield and fire sealant.

Fill any gaps with fire sealant to maintain fire and acoustic integrity.

Roof sarking

Separating wall continued through roof cavity

Install trimmer for ceiling plasterboard perimeter support

FireShield

FIGURE 8 Separating Wall with External Wall Above
3.3.3 Timber Separating Walls

Roofs sarking over anti-ponding board.

FireShield

Truss perpendicular to separating wall.

Top plate

Wall stud

External wall stud

FireShield or other non-combustible lining continued over eaves.

Separating wall continued through roof cavity.

Fill with fire resistant mineral wool to maintain FRL of wall system to non-combustible roof lining.

Top plate

Wall stud

Fill with fire resistant mineral wool in cavity to maintain FRL.

Sacrificial solid timber blocking to maintain fire rating. Additional to structural timber.

Use 1x45mm or 2x35mm thick for FRL 60.

Use 2x45mm or 3x35mm thick for FRL 90.

Fill any gaps with fire sealant to maintain fire and acoustic integrity.

FIGURE 9 Separating Wall to Box Gutter with Perpendicular Roof Trusses

FIGURE 10 Separating Wall Over Eaves Lining
3.3.3 Timber Separating Walls

**FireShield**

Non-fire rated plasterboard

45mm min solid timber blocking in wall cavity to maintain fire rating

Vertical damp proof course

Fill with fire resistant mineral wool in cavity to maintain FRL

Additional stud installed to support FireShield and fire sealant

5-10mm clearance to plasterboard. Fire sealant required to maintain fire and acoustic integrity.

Moisture barrier

Sacrificial solid timber blocking to maintain fire rating. Additional to structural timber.

Use 1x45mm or 2x35mm thick for FRL 60.

Use 2x45mm or 3x35mm thick for FRL 90.

Fill any gaps with fire sealant to maintain fire and acoustic integrity.

**FIGURE 11 Separating Wall to External Brick Wall**

**FIGURE 12 Separating Wall to External Brick Wall**
3.3.3 Timber Separating Walls

Vertical damp proof course
Fill with fire resistant mineral wool in cavity to maintain FRL

Non-fire rated plasterboard

Additional stud installed to support FireShield and fire sealant

Fire sealant required to maintain fire and acoustic integrity

If cladding battens are used, fill cavity with fire resistant mineral wool to maintain FRL

Breathable moisture barrier

Sacrificial solid timber blocking to maintain fire rating. Additional to structural timber. Use 1x45mm or 2x35mm thick for FRL 60, Use 2x45mm or 3x35mm thick for FRL 90.

Fill any gaps with fire sealant to maintain fire and acoustic integrity.

FIGURE 13 Separating Wall to External Brick Wall with Return

FIGURE 14 Separating Wall to External Clad Wall