

## Technical Bulletin

# KNAUF NEW FIRE-RATED PLASTERBOARD PRODUCTS

The purpose of this Technical Bulletin is to assist Knauf's customers understand the technical requirements of specifying and installing the below new fire-rated products in various systems.

Refer to this document for the latest information on Fire Resistance Level performance of Knauf's plasterboard systems.

Testing of our fire-rated products and other Systems continues and we will provide further information on technical requirements at the earliest opportunity.

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### Systems

- Steel Stud Wall
- Shaftwall®
- Ventshaft™
- IntRwall®
- Partiwall®
- Timber Stud Wall
- OutRwall® - Timber
- OutRwall® - Steel
- Column and Beam Protection
- Floor/Ceiling, Roof/Ceiling
- Fire Tunnel
- Spanning Ceiling
- Horizontal Shaftwall
- FireClad®
- Brick Veneer - Timber
- Brick Veneer - Steel
- Masonry Wall FRL upgrade

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### Product Range

#### Standard Stocked

- 13mm Firestop®
- 16mm Firestop®
- 16mm Fire Wetstop™
- 25mm Shaftliner™ Mouldstop

## Wall and Specialty Systems

- The above fire-rated products have been tested and assessed by BRANZ to achieve the Fire Resistance Level (FRL) as indicated in Table 2-12. Refer to this document for FRL specifications only.
- Table 2-12 are applicable to all variants of 13mm and 16mm Firestop® (Fire Wetstop™) products as listed above. All Firestop plasterboard products of the same thickness achieve the same Fire Resistance Level (FRL) and interchangeable from a fire-rating performance perspective. Firestop (Fire Wetstop) may be substituted with Multistop™ plasterboard range of equivalent thickness and attributes.
- For acoustic performance of wall Systems, refer to Systems+ for systems lined with Firestop/MultiStop products.
- The installation details of steel-stud wall systems with the new fire-rated products have NOT changed. Refer to Knauf Systems+ and technical manuals for installation details.
- Existing Knauf fire-rated product (e.g. Firestop manufactured up to 2021) may be used in conjunction with the new fire-rated products. However, refer to Table 2-12 for systems requirements and Fire Resistance Level.
- **13mm and 16mm Firestop are NOT to be used in wet area applications.** Refer Table 1 for product performance attributes or contact Knauf for further information.

| Product                        | Performance Attributes      |                 |                  |                 |                       |
|--------------------------------|-----------------------------|-----------------|------------------|-----------------|-----------------------|
|                                | Fire Resistant <sup>1</sup> | Water Resistant | Impact Resistant | Mould Resistant | Acoustic <sup>2</sup> |
| 13mm Firestop<br>16mm Firestop | Yes                         | No              | N/A              | No              | Yes                   |
| 16mm Fire Wetstop              | Yes                         | Yes             | N/A              | No              | Yes                   |
| 25mm Shaftliner<br>Mouldstop   | Yes                         | Yes             | N/A              | Yes             | Yes                   |

Table 1: Performance attributes

Note:

1) Refer to Table 2-14 for wall and ceiling Systems FRL

2) Refer Systems+ for acoustic performance

| Steel Stud Wall Systems   | Plasterboard Configuration |                 | FRL              |                        | Cavity Insulation  |
|---|----------------------------|-----------------|------------------|------------------------|--------------------|
|   | Side 1                     | Side 2          | Non Load Bearing | Load Bearing           |                    |
| Single Steel Studs (SB)<br>Twin Steel Studs (ST)<br>Staggered Studs (SS)<br>Quiet Stud (SQ) | 1x13mm Firestop            | 1x13mm Firestop | -/30/30          | 30/30/30               | -                  |
|   | 1x13mm Firestop            | 1x13mm Firestop | -/60/60*         | 30/30/30               | 1x50G11* (minimum) |
|   | 2x13mm Firestop            | 2x13mm Firestop | -/120/120        | 90/90/90               | -                  |
|   | 1x13mm Firestop            | 2x13mm Firestop | -/90/90*         | 30/30/30               | 1x50G11* (minimum) |
|   | 1x16mm Firestop            | 1x16mm Firestop | -/60/60          | 60/60/60<br>ACR 20%    | -                  |
|   | 1x16mm Firestop            | 1x16mm Firestop | -/90/90*         | 60/60/60<br>ACR 20%    | 1x50G11* (minimum) |
|   | 2x16mm Firestop            | 2x16mm Firestop | -/120/120        | 120/120/120<br>ACR 20% | -                  |
| Single Steel Studs (SO)<br>(FRL from lined side only)                                       | 2x16mm Firestop            | -               | -/60/60          | 60/60/60               | -                  |
|   | 3x13mm Firestop            | -               | -/90/90          | 90/90/90               | -                  |
|   | 3x16mm Firestop            | -               | -/120/120        | 120/120/120            | -                  |

Table 2: Steel Stud Wall Systems and Fire Resistance Level

Note:

1) FRL from both directions unless noted otherwise.

\*2) Must include glasswool insulation (G) as indicated

3) Load bearing steel studs to be designed by suitably qualified Structural Engineer and where appropriate apply Axial Capacity Reduction (ACR) as indicated in table

Wall and Specialty Systems

| Timber Stud Wall Systems                        | Plasterboard Configuration |                 | FRL              |                             | Cavity Insulation |
|---|----------------------------|-----------------|------------------|-----------------------------|-------------------|
|   | Side 1                     | Side 2          | Non Load Bearing | Load Bearing                |                   |
| Single Studs (TB)                               | 1x13mm Firestop            | 1x13mm Firestop | -/30/30          | 30/30/30                    | -                 |
| Twin Studs (TT)                                 | 1x13mm Firestop            | 2x13mm Firestop | -/60/60          | 30/30/30                    | -                 |
| Staggered Studs (TS)                            | 1x16mm Firestop            | 1x16mm Firestop | -/60/60          | 60/60/60<br><i>cf 23</i>    | -                 |
| Single Stud (TF)<br>with furring channel        | 2x13mm Firestop            | 2x13mm Firestop | -/90/90          | 90/90/90<br><i>cf 10</i>    | -                 |
|   | 2x16mm Firestop            | 2x16mm Firestop | -/120/120        | 120/120/120<br><i>cf 20</i> | -                 |
| Single Studs (TO)<br>(FRL from lined side only) | 2x16mm Firestop            | -               | -/60/60          | 60/60/60                    | -                 |
|   | 3x13mm Firestop            | -               | -/90/90          | 90/90/90                    | -                 |
|   | 3x16mm Firestop            | -               | -/120/120        | 120/120/120                 | -                 |

Table 3: Timber Stud Wall Systems and Fire Resistance Level

Note:

- 1) FRL from both directions unless noted otherwise.
- 2) Additional layers of villaboard or non-technical plasterboard to the systems in table 3 will not affect FRL
- 3) Timber studs to be 70mm min in depth unless noted otherwise and designed by suitably qualified Structural Engineer to the assigned system charfactor (cf) number. Refer to Knauf for charfactor (cf) design tables.

| OutRwall Timber Stud Wall Systems   | Plasterboard Configuration |                 | FRL              |  | Cavity Insulation     |
|---|----------------------------|-----------------|------------------|--|-----------------------|
|   | Internal Lining            | External Lining | Non Load Bearing | Load Bearing   |                       |
| Single Timber Studs (OWT)<br>Lightweight cladding on battens over building wrap | 1x10mm SHEETROCK ONE       | 1x13mm Firestop | -                | 30/30/30<br>from outside   | -                     |
|   | 1x10mm SHEETROCK ONE       | 1x16mm Firestop | -                | 60/60/60<br><i>cf 23</i><br>from outside (90mm timber studs only)                  | 1x75G11*<br>(minimum) |
|   | 1x10mm SHEETROCK ONE       | 1x16mm Firestop | -                | 60/60/60<br><i>cf 23</i><br>from outside (must use James Hardie external cladding) | 1x50G11*<br>(minimum) |
|   | 1x16mm Firestop            | 1x16mm Firestop | -                | 60/60/60<br><i>cf 23</i>   | -                     |
|   | 1x10mm SHEETROCK ONE       | 2x13mm Firestop | -                | 60/60/60<br><i>cf 10</i><br>from outside   | 1x50G11*<br>(minimum) |
|   | 1x16mm Firestop            | 2x16mm Firestop | -                | 90/90/90<br>from outside<br>60/60/60<br><i>cf 23</i><br>from inside                | -                     |
|   | 2x13mm Firestop            | 2x13mm Firestop | -                | 90/90/90<br><i>cf 10</i>   | -                     |
|   | 2x16mm Firestop            | 2x16mm Firestop | -                | 120/120/120<br><i>cf 20</i>  | -                     |

Table 4 : OutRwall Timber Stud Wall Systems and Fire Resistance Level

Note:

- 1) FRL from both directions unless noted otherwise.
- 2) All Firestop variants may be used for internal or external lining dependent on project design, refer table 1 for information.
- \*3) Must include glasswool insulation (G) as indicated
- 4) Where required James Hardie external cladding must be used to achieve FRL
- 5) Timber studs to be 70mm min in depth unless noted otherwise and designed by suitably qualified Structural Engineer to the assigned system charfactor (cf) number. Refer to Knauf for charfactor (cf) design tables.

Wall and Specialty Systems

| OutRwall Steel Stud Wall Systems   | Plasterboard configuration |                 | FRL   |  | Cavity Insulation     |
|--|----------------------------|-----------------|---|--|-----------------------|
|  | Internal Lining            | External Lining | Non Load Bearing  | Load Bearing   |                       |
| Single Steel Studs (OWS)<br>Lightweight cladding on battens over building wrap | 1x10mm SHEETROCK ONE       | 1x13mm Firestop | -/30/30<br>from outside   | 30/30/30<br>from outside   | -                     |
|  | 1x13mm Firestop            | 1x13mm Firestop | -/60/60*  | 30/30/30   | 1x50G11*              |
|  | 1x10mm SHEETROCK ONE       | 1x16mm Firestop | -/60/60*<br>from outside<br>(must use James Hardie external cladding) | 60/60/60<br>ACR 20%<br>from outside<br>(must use James Hardie external cladding) | 1x50G11*<br>(minimum) |
|  | 1x13mm SHEETROCK HD        | 1x16mm Firestop | -/60/60*<br>from outside  | 60/60/60*<br>ACR 20%<br>from outside   | 1x50G11*<br>(minimum) |
|  | 1x10mm SHEETROCK ONE       | 2x13mm Firestop | -/90/90<br>from outside   | 90/90/90<br>from outside   | -                     |
|  | 1x16mm Firestop            | 1x16mm Firestop | -/90/90*  | 60/60/60<br>ACR 20%  | 1x50G11*<br>(minimum) |
|  | 2x13mm Firestop            | 2x13mm Firestop | -/120/120   | 90/90/90   | -                     |
| 2x16mm Firestop  | 2x16mm Firestop            | -/120/120       | 120/120/120<br>ACR 20%  | -  |                       |

Table 5 : OutRwall Steel Stud Wall Systems and Fire Resistance Level

Note:

- 1) FRL from both directions unless noted otherwise.
- \*2) Must include glasswool insulation (G) as indicated
- 3) Where required James Hardie external cladding must be used to achieve FRL
- 4) All Firestop variants may be used for internal lining or external lining dependent on project design, refer table 1 for information.
- 5) Steel studs to be 70mm in depth min and designed by suitably qualified Structural Engineer and where appropriate apply Axial Capacity Reduction (ACR) as indicated in table.

| FireClad Wall Systems  | Wall configuration |                 | FRL         |              |
|--|--------------------|-----------------|-------------|--------------|
|  | Internal side      | External side   | From inside | From outside |
| Steel cladding on battens over building wrap with 2 or more fire-rated plasterboard (FC) | -                  | 2x16mm Firestop | -           | 60/60/60     |
|  | -                  | 3x13mm Firestop | -           | 90/90/90     |
|  | -                  | 3x16mm Firestop | -           | 120/120/120  |

Table 6: FireClad wall Systems and Fire Resistance Level

| Brick Veneer with Timber Stud Wall Systems                                    | Wall configuration |                                   | FRL               |              |
|---|--------------------|-----------------------------------|-------------------|--------------|
|   | Internal side      | External side                     | From inside       | From outside |
| 110 clay brick-170 kg/m <sup>2</sup> , 50mm air gap, single Timber Stud (BVT) | 1x13mm Firestop    | Brick Veneer with 30/30/30 FRL    | 30/30/30          | 30/30/30     |
|   | 1x16mm Firestop    | Brick Veneer with 60/60/60 FRL    | 60/60/60<br>cf 23 | 60/60/60     |
|   | 2x13mm Firestop    | Brick Veneer with 90/90/90 FRL    | 90/90/90<br>cf 10 | 90/90/90     |
|   | 2x16mm Firestop    | Brick Veneer with 120/120/120 FRL | 90/90/90<br>cf 20 | 120/120/120  |

Table 7: Brick Veneer Timber Stud Wall Systems and Fire Resistance Level

Note:

- 1) All Firestop variants may be used for internal lining dependent on project design, refer table 1 for information.
- 2) Timber studs to be 70mm min in depth unless noted otherwise and designed by suitably qualified Structural Engineer to the assigned system charfactor (cf) number. Refer to Knauf for charfactor (cf) design tables

Wall and Specialty Systems

| Brick Veneer with Steel Stud Wall Systems                                     | Wall configuration |                                   | FRL                                    |              |
|---|--------------------|-----------------------------------|--|--------------|
|   | Internal side      | External side                     | From inside                            | From outside |
| 110 clay brick- 170 kg/m <sup>2</sup> , 50mm air gap, single Steel Stud (BVS) | 1x13mm Firestop    | Brick Veneer with 60/60/60 FRL    | -/60/60 or 30/30/30                    | 60/60/60     |
|   | 1x16mm Firestop    | Brick Veneer with 90/90/90 FRL    | -/90/90 or 60/60/60<br>ACR 20%         | 90/90/90     |
|   | 2x13mm Firestop    | Brick Veneer with 90/90/90 FRL    | 90/90/90 or<br>-/120/120               | 90/90/90     |
|   | 2x16mm Firestop    | Brick Veneer with 120/120/120 FRL | -/120/120 or<br>120/120/120<br>ACR 20% | 120/120/120  |

Table 8: Brick Veneer Steel Stud Wall Systems and Fire Resistance Level

Note:

- 1) All Firestop variants may be used for internal lining dependent on project design, refer table 1 for information.
- 2) Steel studs to be 70mm min in depth and designed by suitably qualified Structural Engineer

| Column/Beam Protection Systems   | System configuration  |  | FRL          |
|--|---|--|--------------|
|  | Plasterboard Lining   | Framing  | Load Bearing |
| Steel Column - I sections (PSC.1)<br>(encasement channel forming gap around column)                  | 1x13mm Firestop   | Refer Rondo  | 30/-/-       |
|  | 2x13mm Firestop   | Refer Rondo  | 60/-/-       |
|  | 2x16mm Firestop   | Refer Rondo  | 90/-/-       |
| Steel Column - SHS/ RHS sections (PSC.2)<br>(Rondo PN 142 track forming 18mm min. gap around column) | 2x16mm Firestop   | Refer Rondo  | 90/-/-       |
| Steel Column - CHS sections (PSC.3)<br>(Rondo 0.75mm BMT track forming gap around column)            | 3x13mm Firestop   | Refer Rondo  | 120/-/-      |
| Concrete Column (PCC.1)  | 1x13mm Firestop   | Furring channel to concrete column                                   | +30/-/-      |
|  | 2x13mm Firestop   | Furring channel to concrete column                                   | +60/-/-      |
|  | 2x16mm Firestop   | Furring channel to concrete column                                   | +90/-/-      |
|  | 1x25mm Shaftliner Mouldstop   | Furring channel to concrete column                                   | +120/-/-     |
| Timber Column (PTC.1)  | 1x13mm Firestop   | Direct fix or furred   | 30/-/-       |
|  | 2x13mm Firestop   | Direct fix or furred   | 60/-/-       |
| Timber Beam (PTB.1)  | 3x13mm Firestop   | Direct fix or furred   | 90/-/-       |
|  | 3x16mm Firestop   | Direct fix or furred   | 120/-/-      |
| Steel Beam (PSB.1)   | 1x13mm Firestop   | Spaced from sides and bottom of steel beam                           | 30/-/-       |
|  | 2x13mm Firestop   | Spaced from sides and bottom of steel beam                           | 60/-/-       |
|  | 2x16mm Firestop   | Spaced from sides and bottom of steel beam                           | 90/-/-       |
|  | 3x13mm Firestop   | Spaced from sides and bottom of steel beam                           | 120/-/-      |
|  | furring + 2x16mm Firestop +furring+1x16mm Firestop                    | Spaced from sides and bottom of steel beam supporting concrete floor | 120/-/-      |
|  | Ceiling bulkhead or furring + 2x16mm Firestop+furring+1x16mm Firestop | Spaced from sides and bottom of steel beam supporting timber floor   | 120/-/-      |

Table 9: Column/Beam Protection Wall Systems and Fire Resistance Level

Note:

- 1) All Firestop variants may be used for internal lining dependent on project design, refer table 1 for information.
- 2) Structural columns/beams designed by others.

Wall and Specialty Systems

| Column/Beam within fire-rated Wall Systems | Plasterboard Configuration |                 | Charfactor, cf (timber only) | FRL          |
|--|----------------------------|-----------------|------------------------------|--------------|
|  | Side 1                     | Side 2          |                              | Load Bearing |
| Steel/Timber Column and Beam (PSC.4)       | 1x13mm Firestop            | 1x13mm Firestop | -                            | 30/-/-       |
|  | 1x16mm Firestop            | 1x16mm Firestop | 23                           | 60/-/-       |
|  | 2x13mm Firestop            | 2x13mm Firestop | 10                           | 90/-/-       |
|  | 2x16mm Firestop            | 2x16mm Firestop | 20                           | 120/-/-      |

Table 10: Column/Beam within fire-rated Wall Systems and Fire Resistance Level

Note:

- 1) All Firestop variants may be used for internal lining dependent on project design, refer table 1 for information.
- 2) Timber columns to be 70mm min in depth unless noted otherwise and designed by suitably qualified Structural Engineer to the assigned system charfactor (cf) number. Refer to Knauf for charfactor (cf) design tables
- 3) Structural columns/beams designed by others.

| Shaft/Duct Riser Wall Systems | Plasterboard Configuration  |                                   | FRL              |              | Cavity Insulation |
|-------------------------------|-----------------------------|-----------------------------------|------------------|--------------|-------------------|
|                               | Side 1                      | Side 2                            | Non Load Bearing | Load Bearing |                   |
| Ventshaft (VS)                | 3x13mm Firestop             | -                                 | -/90/90          | -            | -                 |
|                               | 3x16mm Firestop             | -                                 | -/120/120        | -            | -                 |
| Shaftwall (SH)                | 1x25mm Shaftliner Mouldstop | 2x13mm Firestop                   | -/90/90          | -            | -                 |
|                               | 1x25mm Shaftliner Mouldstop | 2x16mm Firestop                   | -/120/120        | -            | -                 |
|                               | 1x25mm Shaftliner Mouldstop | 1x13mm Firestop + 1x16mm Firestop | -/120/120        | -            | -                 |

Table 11: Shaft/Duct Riser Wall Systems and Fire Resistance Level

Note:

- 1) FRL from both directions unless noted otherwise.

| Shaft/Duct Riser Wall Systems | Plasterboard Configuration |                 | FRL           |               |
|-------------------------------|----------------------------|-----------------|---------------|---------------|
|                               | Side 1                     | Side 2          | From side 1   | From side 2   |
| Masonry Wall (MW)             | 1x16mm Firestop            | -               | +30/+30/+30   | -             |
|                               | 1x16mm Firestop            | 1x16mm Firestop | +30/+60/+60   | +30/+60/+60   |
|                               | 2x13mm Firestop            | -               | +60/+60/+60   | -             |
|                               | 2x13mm Firestop            | 2x13mm Firestop | +60/+120/+120 | +60/+120/+120 |
|                               | 2x16mm Firestop            | -               | +90/+90/+90   | -             |
|                               | 2x16mm Firestop            | 2x16mm Firestop | +90/+180/+180 | +90/+180/+180 |

Table 12: Masonry Wall upgrade systems and Fire Resistance Level

Note:

- 1) Firestop plasterboard fixed to 28mm furring channels
- 2) All Firestop variants may be used for internal lining dependent on project design, refer table 1 for information.

## Ceiling Systems and Fire Tunnel Systems

- The above fire-rated products have been tested and assessed by BRANZ to achieve the Fire Resistance Level (FRL) and/or Resistance to Insipient Spread of Fire (RISF) as indicated in Table 13 and 14. Refer to this document for FRL and RISF specifications only.
- Table 13 and 14 are applicable to variants of 13mm, 16mm Firestop® (Fire Wetstop) and 25mm Shaftliner™ Mouldstop products as listed above. All Firestop plasterboard products of the same thickness achieve the same Fire Resistance Level (FRL or RISF) and interchangeable from a fire rating performance perspective. Firestop (Fire Wetstop) may be substituted with Multistop™ plasterboard range of equivalent thickness and attributes.
- **Ensure steel framing manufacturer (Rondo) is consulted in the design of ceiling framing system to support new fire-rated products as listed above.**
- For acoustic performance of Ceiling Systems, refer to Systems+ Section G systems lined with Firestop/ Shaftliner products.
- The installation details of Ceiling Systems with the new fire-rated products have NOT changed. Refer to Knauf Systems+ and technical manuals for installation details.
- Existing Knauf fire-rated product (e.g. Firestop manufactured up to 2021) may be used in conjunction with the new fire-rated products. However, refer to Table 13 and 14 below for Systems requirements and Fire Resistance Level.

| Ceiling Systems  | Plasterboard Configuration  |   | FRL   | RISF     | FRL Direction | Cavity Insulation |
|--|-----------------------------|---|---|----------|---------------|-------------------|
|  | Top Lining                  | Below Lining                                |   |          |               |                   |
| <b>Ceiling under Roof (CR)</b><br>(direct fix or furring channel system)<br><br><b>Ceiling under Floor (CT), (CC)</b><br>steel or concrete floor<br>(Direct fix or furring channel system) | -                           | 1x13mm Firestop                             | 30/30/30  | -        | From below    | -                 |
|  | -                           | 1x16mm Firestop                             | 30/30/30  | -        | From below    | -                 |
|  | -                           | 2x13mm Firestop                             | 60/60/60  | 30 mins  | From below    | -                 |
|  | -                           | 1x13mm Firestop + 1x16mm Firestop           | 60/60/60  | 60 mins  | From below    | -                 |
|  | -                           | 2x16mm Firestop                             | 90/90/90  | 60 mins  | From below    | -                 |
|  | -                           | 3x16mm Firestop                             | 120/120/120                                       | 90 mins  | From below    | -                 |
|  | -                           | 2x16mm Firestop + Furring + 2x16mm Firestop | 120/120/120                                       | 120 mins | From below    | -                 |
| <b>Spanning Ceiling (CS)</b><br>(150 CS studs)   | 1x16mm Firestop             | 1x16mm Firestop                             | 60/60/60  | -        | From above    | -                 |
|  | 2x13mm Firestop             | 1x13mm Firestop                             | 90/90/90  | -        | From above    | -                 |
|  | 2x13mm Firestop             | 3x13mm Firestop                             | 90/90/90  | -        | Both sides    | -                 |
|  | 2x16mm Firestop             | 2x16mm Firestop                             | 120/120/120 (from above)<br>60/60/60 (from below) | -        | Refer FRL     | -                 |
|  | 2x16mm Firestop             | 1x16mm Firestop + 1x10mm SHEETROCK ONE      | 120/120/120                                       | -        | From above    | -                 |
|  | 2x16mm Firestop             | 3x16mm Firestop                             | 120/120/120                                       | -        | Both sides    | -                 |
| <b>Horizontal Shaftwall (CH)</b><br>(CH Studs)   | 1x25mm Shaftliner Mouldstop | 2x16mm Firestop                             | 60/60/60  | -        | Both sides    | -                 |
|  | 1x25mm Shaftliner Mouldstop | 3x16mm Firestop                             | 120/120/120                                       | -        | Both sides    | -                 |
|  | 3x16mm Firestop             | 1x25mm Shaftliner Mouldstop                 | 120/120/120                                       | -        | Both sides    | -                 |

Ceiling Systems and Fire Tunnel Systems

| Fire Tunnel Systems | Plasterboard Configuration |  |  |                 | Framing                   | FRL Direction             |
|---------------------|----------------------------|--|--|-----------------|---------------------------|---------------------------|
|                     | Ceiling                    |  | Wall                                   |                 |                           |                           |
|                     | Top Lining                 | Below Lining                           | Internal side                          | External Side   |                           |                           |
| Fire Tunnel (FT)    | 1x16mm Firestop            | 1x16mm Firestop                        | 1x16mm Firestop                        | 1x16mm Firestop | Welded Rondo Steel frames | -/60/60 from outside      |
|                     | 2x16mm Firestop            | 2x16mm Firestop                        | 1x16mm Firestop                        | 1x16mm Firestop | Welded Rondo Steel frames | -/60/60 from both sides   |
|                     | 2x13mm Firestop            | 1x13mm Firestop                        | 1x13mm Firestop                        | 2x13mm Firestop | Welded Rondo Steel frames | -/90/90 from outside      |
|                     | 2x16mm Firestop            | 1x16mm Firestop + 1x10mm SHEETROCK ONE | 1x16mm Firestop + 1x10mm SHEETROCK ONE | 2x16mm Firestop | Welded Rondo Steel frames | -/120/120 from outside    |
|                     | 2x16mm Firestop            | 3x16mm Firestop                        | 2x16mm Firestop                        | 2x16mm Firestop | Welded Rondo Steel frames | -/120/120 from both sides |

Table 14: Fire Tunnel Systems and Fire Resistance Level

Note:

1) Welded Rondo steel frames to be ex 150mm studs, tracks and angles

Note

- Stated glasswool insulation forms part of the Fire Resistance Level ( FRL).  
50G11 – Denotes 50mm Glasswool 11.0kg m<sup>3</sup>  
75G11 – Denotes 75mm Glasswool 11.0kg/m<sup>3</sup>
- Stated steel studs and framing system are manufactured by Rondo and forms part of fire-rating system, should other steel suppliers be used in Knauf systems, it is the responsibility of the supplier to provide relevant certification to meet requirements of the NCC.
- Refer to Knauf Systems+ technical manual for systems details and relevant information.

Partiwall®

- Only Partiwall® Systems with FRL 60/60/60 requirement can use the above fire-rated products.
- New and existing fire-rated plasterboard products may be used together without affecting the Fire Resistance Level.
- The installation details of Partiwall with the new fire-rated products have NOT changed. Refer to Knauf Partiwall manual for installation details.
- Do not mix and match Knauf products and other manufacturer’s products. Systems are required to be installed as complete Systems with plasterboard products manufactured by the same manufacturer of choice.
- Use 16mm Firestop and screw laminate to the 25mm Shaftliner™ Mouldstop in accordance with the Partiwall manual.



## IntRwall®

- Only IntRwall® Systems IW60.3, IW60.4, IW60.5 and with FRL -/60/60 requirement can use the above products. Refer to Systems+ for systems information.
- New and existing fire-rated plasterboard products may be used together without affecting the Fire Resistance Level.
- Glasswool insulation in wall cavity as required by Systems performance. **Polyester insulation is not permitted.**
- Refer to Knauf technical literature and Handbook for installation details.
- Where internal linings of wall system do not extend full height of wall and terminate at the ceiling level, use 16mm Firestop and screw laminate to the 25mm Shaftliner™ Mouldstop above the ceiling line as required in accordance with the IntRwall installation details.
- Do not mix and match Knauf products and other manufacturer's products. Systems are required to be installed as complete systems with plasterboard products manufactured by the same manufacturer of choice.

## Compliance

- 13mm Firestop, 16 Firestop, 13mm Fire Wetstop, 16mm Fire Wetstop and 25mm Shaftliner Mouldstop have been tested and assessed by BRANZ (Fire Testing Authority) to be used in fire rated wall systems, ceiling systems and specialty systems as indicated in Table 2-14, Partiwall and Intrwall systems. **Fire rated systems are compliant to National Construction Code 2022 and AS 1530.4-2014.**
- Install products as per our technical manuals to ensure the systems are in accordance with systems certification.
- Do not mix and match Knauf products and other manufacturer's products. Systems are required to be installed as complete systems with plasterboard products manufactured by the same manufacturer of choice.
- Fire reports available on request and can be sent directly to Building Surveyors and certifiers.

## Technical Support

Contact Knauf TecASSIST for technical support and enquiries relating to Knauf's new fire-rated product and installation of Wall and Ceiling Systems, specialty Systems, Partiwall, and IntRwall.

Phone: **1800 811 222**

Email: **TecASSIST@knauf.com**