



FireWALLS... sound fire solutions

JUMBO® Fire Resistant Drywall Systems are designed for use in both fire-rated and non-fire-rated applications. Speedily erected, JUMBO® FireWALLS are suitable for every type of new construction – commercial, residential, industrial, education, healthcare, and retail. They provide smooth, durable, non-combustible walls that are lightweight and low in cost.

The objective of a FireWALL is to slow down the spread of fire, minimise the rise in temperature and retain its integrity and structure thereby allowing more time for evacuation and fighting the fire.

All plasterboard is naturally fire resistant and is classified as non-combustible according to the Building Code. The core slows down the spread of fire by releasing chemically bound water when heated. This is a similar process to evaporation and aids cooling. JUMBO® Fire Resistant Plasterboard contains fibre glass additives that improve the natural fire resisting properties of plasterboard.

Features and Benefits include:

- Lightweight construction
- Easy, fast and dry application
- Limitless design options
- Accommodates services within the cavity

South African Fire Test Standards

The South African Fire Tests are conducted according to the SANS 10177-2 protocol, fire testing of materials, components and elements used in building part 2.

Our JUMBO® FireWALLS have been tested in Firelab's large-scale air aspirated diesel furnace. The furnace temperature is controlled to follow the ISO standard time-temperature curve as stipulated in SANS 10177-2.

The Fire Resistance Rating (FRR) of the system is determined based on the following criteria:-

Stability – The temperature of the primary stud and deflection are measured to assess stability

Integrity – The system needs to have resisted the penetration of flames, and have no opening visible larger than 6mm wide or 150mm long

Insulation – Measures the temperature over the whole of the exposed surface, which needs to be within the specified test standards

JUMBO® FireWALL 63/60/4.2m

This is a non-loadbearing high performance 60 Minute Fire Resistant Drywall using a single 15mm Fire Resistant JUMBO® Board on either side of the 63mm Stud and 64mm Track, giving an overall wall thickness of 93mm. The test result applies to walls up to 4.2 metres in height.

Test Results:-

The JUMBO® FireWALL system met the criteria for a 60 minute non-load bearing wall system when tested in accordance with SANS 10177-2 test protocol. The performance of the system satisfied all the criteria for Stability, Integrity and Insulation for 60 minutes.

Classification is as follows:-

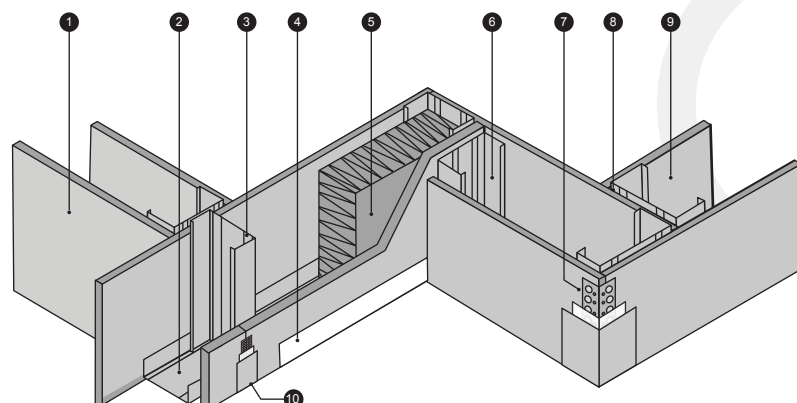
SANS 10177-2 – FR60 (Non-load bearing)

Stability (R) – 60 minutes

Integrity (E) – 60 minutes

Insulation (I) – 60 minutes

Typical Illustration for JUMBO® FireWALL 63/60/4.2m



1. JUMBO® 15mm FR Plasterboard
2. JUMBO® 64mm Track
3. JUMBO® 63mm Stud
4. JUMBO® Skirting
5. JUMBO® 63mm SoundTherm (not part of test / optional)
6. JUMBO® 63mm Stud
7. JUMBO® Corner Bead
8. JUMBO® 63mm Stud
9. JUMBO® 15mm FR Plasterboard
10. JUMBO® Tape

Note: 63/60 - No Insulation
63/60/S44 - With SoundTherm

JUMBO® FireWALL 63/120/4.2m

This is a non-loadbearing high performance 120 Minute Fire Resistant Drywall using two layers of 15mm Fire Resistant JUMBO® Boards on either side of the 63mm Stud and 64mm Track, giving an overall wall thickness of 124mm. The test result can be used for walls up to 4.2 metres in height.

Test Results:-

The JUMBO® FireWALL system met the criteria for a 120 minute non-load bearing wall system when tested in accordance with SANS 10177-2 test protocol. The performance of the system satisfied all the criteria for Stability, Integrity and Insulation for 120 minutes.

Classification is as follows:-

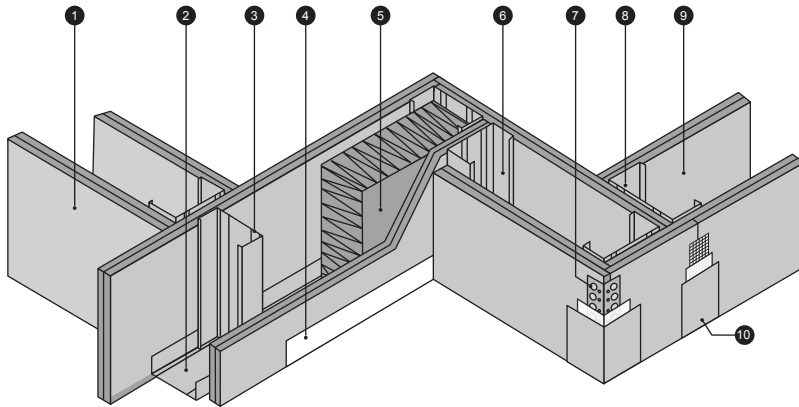
SANS 10177-2 – FR120 (Non-load bearing)

Stability (R) – 120 minutes

Integrity (E) – 120 minutes

Insulation (I) – 120 minutes

Typical Illustration for JUMBO® FireWALL 63/120/4.2m



1. JUMBO® 15mm FR Plasterboard
2. JUMBO® 64mm Track
3. JUMBO® 63mm Stud
4. JUMBO® Skirting
5. JUMBO® 63mm SoundTherm (not part of test / optional)
6. JUMBO® 63mm Stud
7. JUMBO® Corner Bead
8. JUMBO® 63mm Stud
9. JUMBO® 15mm FR Plasterboard
10. JUMBO® Tape

Note: 63/120 - No Insulation
63/120/S50 - With SoundTherm

JUMBO® FireWALL102/60/6m

This is a non-loadbearing high performance 60 Minute Fire Resistant Drywall using one 12mm and one 15mm Fire Resistant JUMBO® Board on either side of the 102mm Stud and 103mm Track, giving the overall wall thickness of 156mm and applicable for a FireWALL up to six metres in height. The framework / Stud spacings are installed at 400mm centres and an H-Track / Transom is installed at three metre height allowing for the use of three metre Studs and JUMBO® Boards.

Test Results:-

The JUMBO® FireWALL system met the criteria for a 60-minute non-load bearing wall system when tested in accordance with SANS 10177-2 test protocol. The performance of the system satisfied all the criteria for Stability, Integrity and Insulation for 60 minutes.

Classification is as follows:-

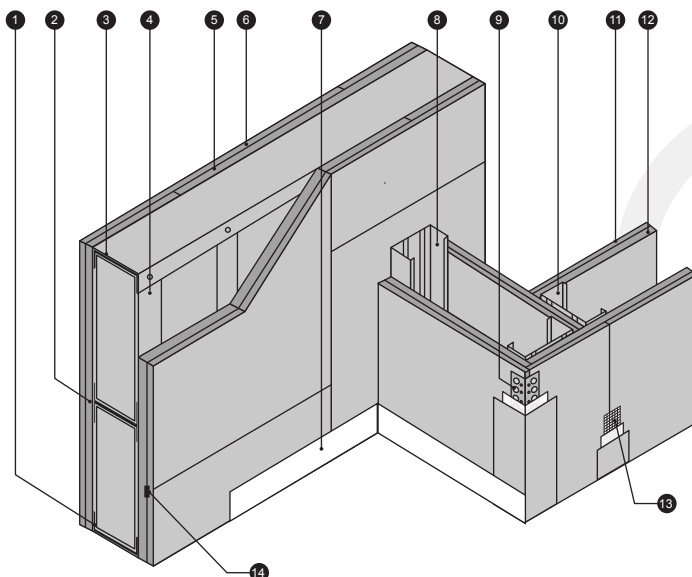
SANS 10177-2 – FR60 (Non-load bearing)

Stability (R) – 60 minutes

Integrity (E) – 120 minutes

Insulation (I) – 120 minutes

Typical Illustration for JUMBO® FireWALL 102/60/6m



1. JUMBO® 103mm Track
2. JUMBO® 103mm H-Track
3. JUMBO® 103mm Track
4. JUMBO® 102mm Stud
5. JUMBO® 15mm FR Plasterboard
6. JUMBO® 12mm FR Plasterboard
7. JUMBO® Skirting
8. JUMBO® 102mm Stud
9. JUMBO® Steel Corner Bead
10. JUMBO® 102mm Stud
11. JUMBO® 12mm FR Plasterboard
12. JUMBO® 15mm FR Plasterboard
13. JUMBO® Fibre Tape
14. 1300 x 50 x 0.5 Steel Backing Plate

Note: Stud spacings are at 400mm centres

JUMBO® FireWALL 102/120/3m

This is a non-loadbearing high performance 120 Minute Fire Resistant Drywall using one 12mm and one 15mm Fire Resistant JUMBO® Board on either side of the 102mm Stud and 103mm Track, giving the overall wall thickness of 156mm and applicable for a FireWALL up to three metres in height. The framework / Stud spacings are installed at 400mm centres.

Test Results:-

The JUMBO® FireWALL system met the criteria for a 120-minute non-load bearing wall system when tested in accordance with SANS 10177-2 test protocol. The performance of the system satisfied all the criteria for Stability, Integrity and Insulation for 120 minutes.

Classification is as follows:-

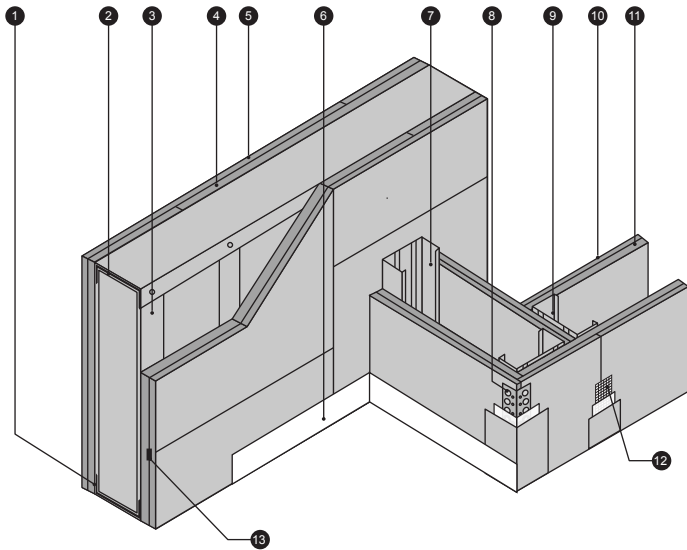
SANS 10177-2 – FR60 (Non-load bearing)

Stability (R) – 120 minutes

Integrity (E) – 120 minutes

Insulation (I) – 120 minutes

Typical Illustration for JUMBO® FireWALL 102/120/3m



1. JUMBO® 103mm Track
2. JUMBO® 103mm Track
3. JUMBO® 102mm Stud
4. JUMBO® 15mm FR Plasterboard
5. JUMBO® 12mm FR Plasterboard
6. JUMBO® Skirting
7. JUMBO® 102mm Stud
8. JUMBO® Steel Corner Bead
9. JUMBO® 102mm Stud
10. JUMBO® 12mm FR Plasterboard
11. JUMBO® 15mm FR Plasterboard
12. JUMBO® Fibre Tape
13. 1300 x 50 x 0.5 Steel Backing Plate

Note: Stud spacings are at 400mm centres

Validity and Application of the Test Report

Fire rated systems need to be assembled strictly in accordance with the relevant test reports, and approved system details and specifications. If not, the fire resistance could be compromised and the test result cannot be applied.

Acoustics and Thermal Insulation

To achieve an acoustic rating or improved thermal insulation, 63mm JUMBO® SoundTherm or a 63mm Cavity Batt can be added to either system. The insulation will enhance the performance in a Fire as well as offer improved acoustic and thermal performance.

Accessories

- Class A (1 Hour) Fire Rated Door in a suited pre-galvanised frame (LH or RH)
- Class B (2 Hour) Fire Rated Door in a suited pre-galvanised frame (LH or RH)
- Galvanised Steel Sheets for added security

The following information is available on our website:-

BOQ Specification, Data Sheets, Revit Files and Detail Drawings.