

PASSIVE FIRE CONTRACTORS GUIDE

The advice in this document is to highlight important aspects of passive fire protection and should be read in conjunction with the fire report and consented plans.

Following the 'Passive Fire Contractors' guide will help avoid programme disruptions and variations.

The compliancy of passive fire systems can be influenced by multiple factors such as product supplier specs, test reports, service penetration types, fire rating requirements, substrate types and thicknesses.

While there are many ways to achieve compliancy a pre-let meeting and regular discussions with all contractors onsite is recommended to attain smooth transitions through all facets of the passive fire requirements.

For complete advice please email info@firetree.co.nz or call 0800 FIRE UP (347 387)

FIRE TREE
INSTALLATIONS



PASSIVE FIRE CONTRACTORS GUIDE

Notes:

- Service penetrations to be clear of dust, debris or moisture.
- Service penetrations to be away from other construction substrates that restrict installations - (typically 100mm) this includes structural elements.
- Service penetration to be passing through fire-cell at 90 degrees, pipes to bend and allow 100mm clearance for a collar to be installed
- Service penetration to be separated from other services (30mm).
- Annular gaps and core holes must provide a sufficient gap around service with to install sealant as required by specifications.
- Where possible keep cable bundles to 30mm for sealant options.
- Linear gap construction joints to be between 5mm - 30mm

For complete advice please email info@firetree.co.nz or
call 0800 FIRE UP (347 387)

FIRE TREE
INSTALLATIONS



PASSIVE FIRE CONTRACTORS GUIDE

Notes:

- Surface mounted batts and gib require 100mm from the opening of the core hole.
- Steel fixings are to be used when screwing in passive fire systems and embedded into solid subtrates (typically 25mm into framing or concrete).
- Where gaps are present fire-cells they are to be sealed or covered using fire rated products. Typically sealants, rockwool, plugs or foam.
- Damage to seals are required to be reinstated.
- Fire-rated bulkheads are to be framed, lined and plastered as per GIB specifications.
- Wall penetrations are required to be sealed on both sides if passing right through.
- Structural penetrations such as timber pulins and steel beams are to be treated.

For complete advice please email info@firetree.co.nz
or call 0800 FIRE UP (347 387)

FIRE TREE
INSTALLATIONS



PASSIVE FIRE CONTRACTORS GUIDE

Standardise Specifications:

Item (standard penetration seals)	Core Size	Annular size	Sealant depth / system	Max FRR
Small Cable	10mm larger than cable	10mm	13mm	-/60/60
30mm Cable Bundle	10mm larger than cable bundle	10mm	13mm	-/60/30
30mm Cable Bundle	10mm larger than cable bundle	10mm	26mm	-/120/60
Large Cable Bundle - 85 cables 25No TPS 2.5mm2 2C+E, 50No Cat 6.	Upto 100mm	Upto 100mm	SL Collar + Sealant, Batt Board 120/120, Hilti Cable Collar (double layer gib)	-/120/90
Non-Combustible Steel Pipe - upto 87mm	100mm	10mm - 15mm	25mm depth (double layer gib)	
Copper Pipe through walls - upto 15mm	25mm	10-15mm	26mm depth (double layer gib + backing rod)	-/120/60
Copper Pipe Through walls - upto 85mm	20mm larger than pipe	20mm	26mm depth (double layer gib + backing rod)	-/120/-
PVC Through Walls	3mm Larger than PVC pipe	3mm - 5mm	10mm	-/90/30
PVC Through 100mm concrete floors - upto 80mm	7mm Larger than PVC pipe	7mm	10mm	-/120/120
PVC Through 100mm concrete floor - 90mm - 150mm	12mm Larger than PVC pipe	12mm	10mm	-/120/120
PVC Through 16mm Gib Ceiling Upto 110mm	3mm Larger than PVC	3mm - 5mm	16mm	-/60/30
Drop in collars for PVC pipes upto 100mm	32mm Larger than PVC pipe	32mm	15mm (60mm of collar showing underneath side of slab)	-/120/120 -/120/90
Brass Pipe wingback 30mm 13mm Fyreline Gib wall	35mm-40mm	5-10mm	13mm	-/90/60

Specifications and direction to be confirmed and informed by site management
For complete advice please email info@firetree.co.nz or call 0800 FIRE UP (347 387)

FIRE TREE INSTALLATIONS

TIMELINES OF INVOLVEMENT



STRUCTURAL PROTECTION

Structural Supports, Beams & Columns



Core Hole Layouts & Size Specifications

STRUCTURAL VOIDS BARRIERS

Framing / Voids in & around fire separations



Roof / Termination Points

External Building Cavity Barriers

FIRE TREE INSTALLATIONS



SERVICE PENETRATIONS FIRST FIX

Penetrations through slabs

Penetrations through top plates (FRR ceilings)

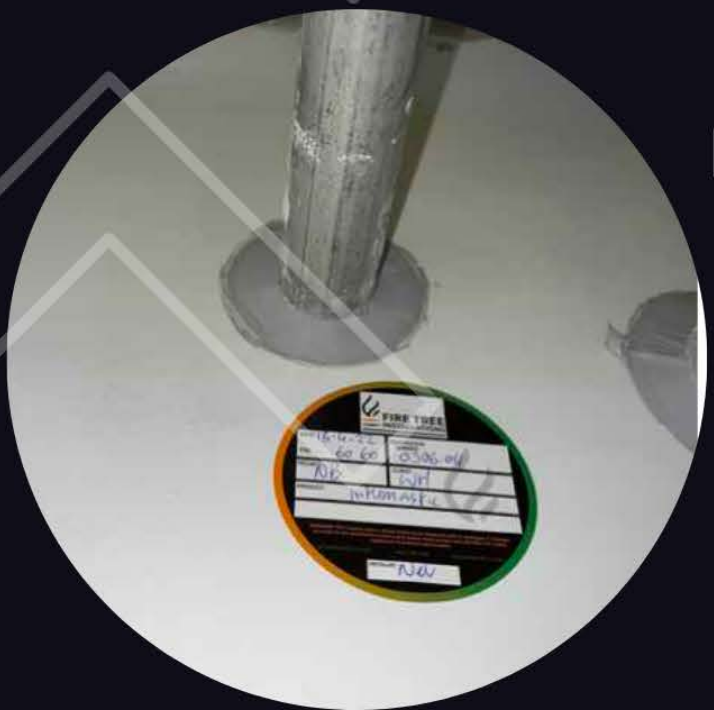
Adequate framing and separations before lining



High level penetrations
Linings

Following gib fixers

SERVICE PENETRATIONS PRE/POSTLINE



Low Level Penetrations

FIRE TREE INSTALLATIONS