**Introduction.**

The document, when completed, is for consent and tender processes and may be used as a referral document for main contractors and their subcontractors. This document is prepared using the digital systems designed by Firestop Centre Ltd. Responsibility for verifying the suitability and acceptance of the systems selected rests with the selecting entity and not Firestop Centre Ltd. Several manufacturers’ systems are presented for selection.

 3M, Protecta, TENMAT, Trafalga, CSD, ALLPROOF, Firestop.

The following Specification preamble sections are suggested content that is intended to satisfy consent requirements but can be deleted, added to, or partialy included in any final document.

**FIRESTOPPING SPECIFICATION**

 Provide products and systems that meet the intent of the New Zealand Building Code.

Provide systems that are tested to AS1530.4 2014 and/or assessed to AS4072.1 2005.

When detail is encountered that does not fall within the boundaries of the above AS Standards, ensure the systems offered have suitable and acceptable data available to justify their selection.

Provide installed firestop systems that limit the spread of fire, heat, smoke, and gasses through otherwise unprotected openings in rated assemblies, including walls, partitions, floors, roof/ceilings, and similar locations, restoring the integrity of the fire-rated construction to its original fire rating.

Provide firestop systems listed for the specific combination of fire-rated construction, type of penetrating item, annular space requirements and fire rating,

Fire Rating of the system to be equal to or greater than the fire-resistance rating of the assembly in which the firestopping will be installed.

Provide fire-resistive systems listed for construction gaps per the specific combination of fire-rated construction type, configuration, gap dimensions and fire rating.

Provide firestop products that are flexible enough to allow for pipe vibration in a through penetration application.

Provide fire resistive sealants and sprays for construction joint applications that are flexible enough to satisfy any movement.

Product Data: Furnish manufacturers’ product data sheets on each material to be used in firestop systems.

Installation Instruction: Furnish manufacturers’ installation instructions when requested.

QUALITY ASSURANCE

General: All through-penetration firestop systems and construction gap fire-resistive systems will be installed with approved methods using materials that have been tested and classified to produce an approved assembly.

Manufacturer Qualifications: All primary products specified in this section will be supplied by a manufacturer with a minimum of twenty five (25) years’ experience.

Installer Qualifications: All installers will have experienced staff trained to install the specified products.

Products will be delivered and stored in such a manner as to prevent deterioration or damage due to moisture, temperature changes, contaminants, and other causes; following manufacturer's instructions

When invited coordinate construction and cutting of openings so that each particular firestop system may be installed in accordance with its assessed system details.

Coordinate firestopping of dynamic and static construction joints (top-of-wall, bottom-of-wall, floor-to-floor, floor-to-wall, wall-to-wall, and perimeter) so that each particular system may be installed in accordance with its listing, including assembly rating, sizing and movement capabilities.

Preferred Manufacturers: 3M Fire Protection Products, Polyseam Protecta Products, CSD Systems, Trafalga Fire, ALLPROOF, FIRESTOP and TENMAT Advanced Materials.

Distributor is located at: 657 Gt South Road Penrose Auckland. Phone 64 9 483 4000; Email: info@firestopcentre.co.nz; Web: [www.firestopcentre.co.nz](http://www.firestopcentre.co.nz)

Single Source: To maintain control and integrity of the firestop applications a single source is preferred. Specific approved systems applicable to each type of firestop condition can be supplied by one source.

EXECUTION

Substrates will be appropriately prepared.

Verify that substrates are free of oil, grease, rolling compounds, incompatible primers, loose mill scale, dirt, and other foreign substances capable of impairing the bond of firestopping.

Verify that items penetrating fire-rated assemblies are securely attached, including sleeves, supports, hangers, and clips.

Verify that openings and adjacent areas are not obstructed by construction that would interfere with the installation of firestopping, including ducts, piping, equipment, and other suspended construction.

Verify that environmental conditions are safe and suitable for the installation of firestopping.

Prepare substrates following the manufacturer's instructions and recommendations.

If substrate preparation is the responsibility of another installer, notify the Architect or Engineer of Record of inadequate preparation before proceeding.

Install masking and temporary coverings to prevent contamination or defacement of adjacent surfaces due to fire-stopping installation.

INSTALLATION

Install in strict accordance with the manufacturer's detailed installation instructions and procedures.

Install so that openings are completely filled, and material securely adheres.

Where firestopping surface will be exposed to view, finish to a smooth, uniform surface flush with adjacent surfaces.

After completing installation, remove combustible forming materials and accessories that are not part of the listed system.

Repair or replace defective installations following manufacturer’s recommendations, listed systems details, and applicable code requirements.

At each penetration or fire-resistive joint system, attach identification labels on both sides of the location where the label will be visible to anyone seeking to remove penetrating items or firestopping.

Clean firestop materials off surfaces adjacent to openings as work progresses, using methods and cleaning materials approved in writing by the firestop system manufacturer and which will not damage the surfaces being cleaned.

Notify authority having jurisdiction when firestopping installation is ready for inspection; obtain advance approval of anticipated inspection dates and phasing, if any, required to allow subsequent construction to proceed.

Do not cover firestopping with other construction until authority having jurisdiction approval has been received.

SYSTEMS SELECTED and SPECIFIED.

The following spreadsheet and files contain details of all firestopping systems for this project: