# EFFTP & FFTP

## PRODUCER STATEMENT – PS1 – DESIGN

This Design Producer Statement (PS1) is issued by NZ Civil Structure Ltd to **Ray Staiger Limited** to inform the users of the use and installation method of the following fixings for both structural applications and durability as required by the New Zealand Building Code Clauses B1 & B2 respectively.

We have been engaged by Ray Staiger Limited to provide Design services for the following products in respect of the requirements of Clause B1 of the Building Code for Part only of the proposed building work. The design carried out by us has been prepared in accordance with: Compliance Documents issued by the Ministry of Business, Innovation & Employment: B1/VM1/VM4

**PRODUCT CODE AND DESCRIPTION**

The product code covered under this Producer statement are following.

- ***EFFTP = SimpleFix Electrical Frame Fix & Top Plate Stiffener***

**PRODUCT DESCRIPTION**

The **EFFTP** is manufactured from Z275 1.6mm thick galvanised steel. Each **EFFTP** is 240mm long x 88mm wide 'U' channel with 35mm folded up-stands along the longer length, with a further 10mm inward fold on the upstands. The **EFFTP** is pre-punched with 1 x 35 x 140mm hole and 9 x 6mm screw holes.

**PRODUCT APPLICATION**

The **EFFTP** is intended to reinstate the structural integrity of both 90 x 45mm and 135 x 45mm wall frame studs and top plates (including a top plate packer if used) that have a service hole of no greater than 35 x 140mm drilled through its centre.

**INSTALLATION**

Installation is self-evident and normal good building practice is assumed during installation. The 35 x 140mm service hole can be made in any position along the top plate provided that the hole edge is no closer than 45mm from a stud. The 35 x 140mm hole shall be centred across the top plate or stud to accommodate the pre-punched **EFFTP.** The **EFFTP** shall be fitted to the inside of the frame leaving clean faces to both the outside edges of the timber. When being used as a top plate stiffener with a top plate packer then Type17 14g x 75mm hex head screws should be used. With a single top plate application then the Type17 12g x 35mm hex head screws should be used.

**HANDLING**

Prior to use, the **EFFTP** shall be stored in a weatherproof environment and be protected from moisture. Care must be taken to avoid any damage to the surface of the product that may affect the protective galvanised coating.

**STRUCTURAL INTEGRITY AND STRENGTH**

The installed **EFFTP** will reinstate the top plate or stud to the integrity of the timber prior to the hole being drilled. This is calculated using the verification methods in accordance with the NZBC standards including NZS3603:1993

**DURABILITY**

The durability of the product is in accordance with the acceptable solutions contained in Table 4.1 of NZS3604:2011 and is intended for use in internal "closed spaces". It is not suitable where this table specifies Stainless Steel.

- ***FFTP = SimpleFix Frame Fix & Top Plate Stiffener***

**PRODUCT DESCRIPTION**

The **FFTP** is manufactured from Z275 1.6mm thick galvanised steel. Each **FFTP** is 240mm long x 88mm wide 'U' channel with 35mm folded up-stands along the longer length, with a further 10mm inward fold on the upstands. The **FFTP** is pre-punched with 62mm diameter hole and 10 x 6.3mm screw holes.

# EFFTP & FFTP

**PRODUCT APPLICATION**

The **FFTP** is intended to reinstate the structural integrity of both 90 x 45mm and 140 x 45mm wall frame studs and top plates (including a top plate packer if used) that have a service hole of no greater than 60mm diameter drilled through its centre.

**INSTALLATION**

Installation is self-evident and normal good building practice is assumed during installation. The 60mm service hole can be made in any position along the top plate provided that the hole edge is no closer than 45mm from a stud or nog/dwang. The 60mm hole shall be centred across the top plate to accommodate the pre-punched FFTP. The FFTP shall be fitted to the inside of the frame leaving clean faces to both outside edges of the timber. When being used as a top plate stiffener with top plate packer then Type 17 14g x 75mm hex head screws shall be used.

**HANDLING**

Prior to use, the **FFTP** shall be stored in a weatherproof environment and be protected from moisture. Care must be taken to avoid any damage to the surface of the product that may affect the protective galvanised coating.

**STRUCTURAL INTEGRITY AND STRENGTH**

The installed **FFTP** will reinstate the top plate or stud to the integrity of the timber prior to the hole being drilled. This is calculated using the verification methods in accordance with the NZBC standards including NZS3603:1993

**DURABILITY**

The durability of the **FFTP** is in accordance with the acceptable solutions contained in Table 4.1 of NZS3604:2011 and is intended for use in internal “closed spaces”. It is not suitable where this table specifies Stainless Steel.

***On behalf of the Design Firm, and subject to:***

(i) Site verification of the following design assumptions: The design for the timber frames and timber top plate has been completed in accordance with the relevant building code for the proposed structure, the loading on the structural frame and the performance of these elements is per NZS3604:2011.

(ii) All proprietary products meeting their performance specification requirements.

I believe on reasonable grounds that a) the building, if constructed in accordance with the drawings, specifications, and other documents provided or listed in the attached schedule, will comply with the relevant provisions of the Building Code and that b), the persons who have undertaken the design have the necessary competency to do so.

I Pavneet Sachdeva, CPEng (1027291) am a member of: Engineering New Zealand and hold the following qualifications: B.E.(Civil) MEngSt (Civil) CMEngNZ IntPE. The Design Firm issuing this statement holds a current policy of Professional Indemnity Insurance no less than $200,000*.



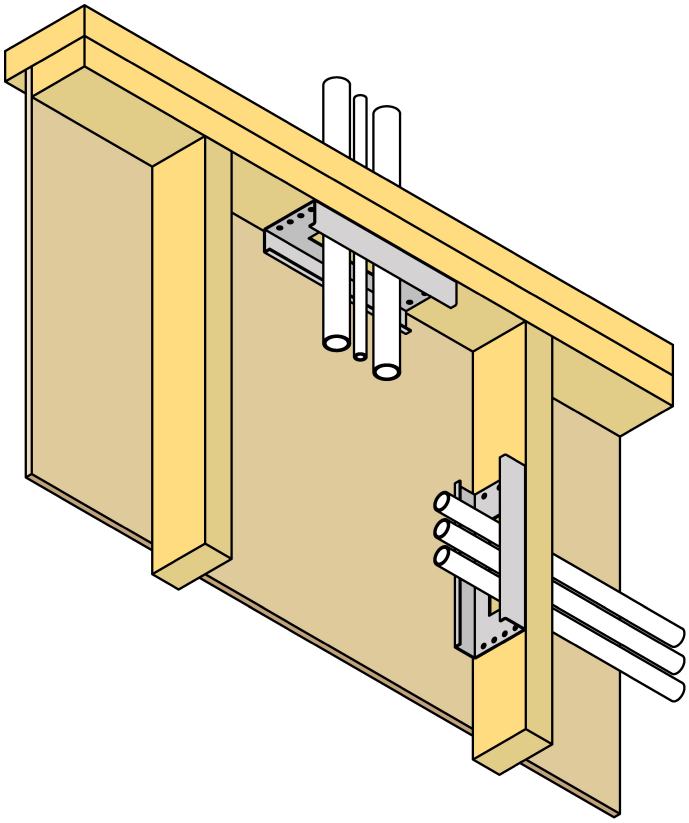
SIGNED by **Pavneet Sachdeva** ON BEHALF OF **NZ Civil Structure Ltd T/a Prudent Engineers.**

Date: 8/04/2024 **(VALID TILL 16/04/2025)**

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of $50,000*.

# ELECTRICAL FRAME FIX

The SmpleFix Frame Fix (**EFFTP**) has been designed to allow a service hole of no greater than **35 x 140mm** to be drilled through a top plate (including top plate packer if used) or wall stud to allow services such as air conditioning or central vacuum pipes to be passed through the member. The fitting of a **EFFTP** re-instates the integrity of the penetrated top plate or stud.



## ADVANTAGES:

- Unique design provides greater top plate uplift resistance capacity
- Quick and easy to install
- Leaves clean faces to outside edges of the timber frames.
- Fixing is by Type17 hex head screws. All holes must be filled
- Comes in one size, designed for use with 90 x 45mm and 135 x 45mm timber only
- Allows an easy solution to fix penetrations in frames made by other trades
- Timber grade can be SG8 or better

## NOTES:

- Use Type17 14g x 75mm hex head screws when fixing to top plate with top plate packer
- Use Type17 12g x 35mm hex head screws when fixing to single top plate or stud
- Service hole shall be centred across the timber member and the hole to be a maximum of **35 x 140mm** diameter
- Service hole can be made in any position along the top plate or stud provided that the hole edge is no closer than 45mm from a stud or nog/dwang
- **EFFTP** shall be fitted to the inside of the frame to ensure clean outside faces of the timber
- All screws holes shall be filled
- Intended for use in internal 'closed space' as per Table 4.1 of NZS3604:2011.

## SPECIFICATIONS

| | |
|---|---|
| **PRODUCT CODE:** | **EFFTP** or **EPTPS** (with fastenings) |
| **MATERIAL:** | 1.65mm G300 Z275 galvanised steel |
| **DURABILITY:** | Suitable for use in closed environment as per table 4.1 NZS3604:2011 |
| **USAGE;** | Designed to reinstate top plate or stud to FULL STRENGTH after a hole size up to **35 x 140mm** has been drilled through the member. |

# Producer Statement - FFTP

# SimpleFix Frame Fix

This Producer Statement is issued by Ray Staiger Limited to cover the use and installation of the SimpleFix Frame Fix for both structural application and durability as required by the NZ Building Code, clauses B1 & B2 respectivley.

## Description

The SimpleFix Frame Fix is manufactured from Z275 1.6mm thick galvanised steel. Each FFTP is 240mm long x 86mm wide “U” channel with 35mm folded up-stands along the lower length with a further 10mm inward fold on the up-stands. The FFTP is pre-punched with 1 x 60mm hole and 10 x 6.3mm screw holes.

## Application

The SimpleFix Frame Fix is intended to reinstate the integrity of both 90 x 45mm and 135 x 45mm wall frame top plates (including a top plate packer if used) or wall studs that have had a service hole of no greater than 60mm diameter drilled through the centre.

## Installation

Installation is self-evident and normal good building practice is assumed during installation. The 60mm service hole can be made in any position along the stud or top plate provided that the hole edge is no closer than 45mm from a stud or nog/dwang. The 60mm hole shall be centred across the top plate or stud to accomodate the pre-punched FFTP. The FFTP shall be fitted to the inside of the frame leaving clean faces to both outside edges of the timber. When being used as a top plate stiffener with top plate packer then Type17 14g x 75mm hex head screws shall be used. With stud or single top plate applications then Type17 12g x 35mm hex head screws shall be used.

## Handling

Prior to use the FFTP shall be stored in a weatherproof enviroment and be protected from moisture. Care must be taken to avoid any damage to the surface of the product that may affect the protective galvanised coating.

## Structural Integrity and Strength

The installed SimpleFix Frame Fix will reinstate top plate or stud to the integrity of the timber prior to the 60mm hole being drilled. This is calculated using the verification methods in accordance with the NZBC standards including NZS3603:1993.

## Durability

The durability of the SimpleFix Frame Fix is in accordance with the acceptable solutions contained in Table 4.1 of NZS3604:2011 and is intended for internal “closed spaces”. It is not suitable where this table specifies stainless steel products.

Engineers Signature

# SimpleFix Frame Fix

The SimpleFix Frame Fix (FFTP) has been designed to allow a service hole of no greater than 60mm to be drilled through a top plate (including top plate packer if used) or wall stud to allow services such as air conditioning or central vacuum pipes to be passed through. The fitting of a FFTP re-instates the integrity of the penetrated top plate or stud.

## Advantages

Unique design provides greater top plate uplift resistance capacity.

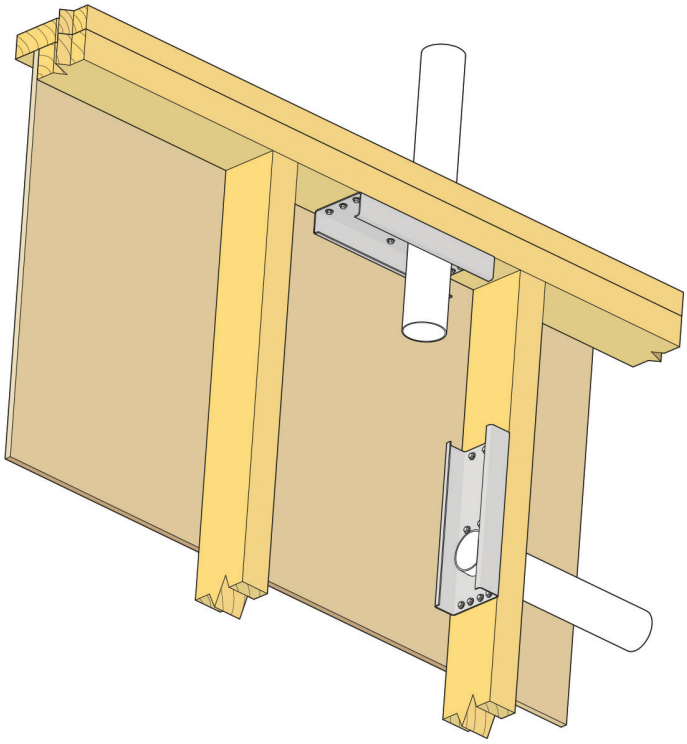
Quick and easy to install, leaveing clean faces to outside edges of the timber frames.

Comes in one size, designed for use with 90 x 45mm and 135 x 45mm timber only.

Allows an easy solution to fix penetrations in frames made by other trades.

PTPS comes complete with fastenings and grommet.

Timber grade must be SG8 or better.



## Installation

Use Type17 14g x75mm hex head screws when fixing to top plate with top plate packer.

Use Type17 12g x35mm hex head screws when fixing to single top plate or stud.

Service hole shall be centred across the timber and the hole to be a maximum of 60mm diameter.

Service hole can be made in any position along the top plate or stud provided that the hole edge is no closer than 45mm from a stud or nog/ dwang.

FFTP shall be fitted to the inside of the frame to ensure clean outside faces of the timber.

All screws holes shall be filled.

Intended for use in internal 'closed spaces' as per Table 4.1 of NZS3604:2011.

| SPECIFICATIONS | |
|---|---|
| PRODUCT CODE | FFTP or PTPS |
| MATERIAL | 1.6mm G300 Z275 galvanised steel |
| DURABILITY | Suitable for use in closed environment as per table 4.1 NZS3604:2011 |
| USAGE | Designed to reinstate top plate or stud to FULL STRENGTH after a hole size up to 60mm has been drilled through it. |