forster thermfix light 50mm (Non fire rated)

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**System Manufacturer/Provider:**

Forster Rohr & Profiltechnik AG Steel Profile Systems, Arbon Switzerland.

**Manufactured by:**

Manufactured by Forster approved Fabricators, list of fabricators available from above contact.

**Product reference:**

forster thermfix light 50 is a thermally insulated, fully drained dry/pressure glazed attachment

curtain walling system suitable for non fire applications.

forster thermfix light has an elevation face width of 50mm and offers the opportunity to attach to

the steel or aluminium fixing profile, gaskets, glazing, clamping plate and cap to various framing

members, such as steel tubes/steel beams, timber posts or aluminium profiles.

Glazing thickness range from between 8mm and 60mm, with the glass/panels held by glazing pads

and the pressure gaskets.

thermfix light offers two types of external capping details, the traditional aluminium cap and the

SG press profile capping detail for the appearance of flush style glazing.

**General Use (Non fire):**

thermfix light can be used for all curtain walling requirements both internally for screens and atria and

externally for screens/staircases and building facades.

thermfix can incorporate non fire rated flush fitting windows, single doors, double doors or double

acting doorsets.

**General Note:**

For most applications it is required that structural load calculations are required to determine the

internal box profile section to be used. The size of this box will be determined by issues such as

spans, tie-back locations and wind load factors. Please consult with the fabricator, or, a representative

of Forster who can assist with these calculations.

**Physical test data:**

thermfix light complies with prEN 13830 product standard, thereby fulfilling the requirements of CE

marking, and has been tested to achieve the following standards:

Water tightness EN 12155, class EN 12154 RE 1250

Dynamic rain impact resistance ENV 13050, Pmax. 1125pa

Air permeability EN 12153 class EN 12152: AE 750

Resistance to wind force EN 12179, 3000pa, security perimeter 4500pa

Impact resistance EN 14019, class E5 / I5.

Thermal transmittance in accordance EN ISO10077-2 respectively EN 12412-2, Uf = 1.3–1.5 W/(m2 k).

**Materials:**

The applicable steel system uses low carbon emission steel for profiles contains recycled materials

with a proportion of at least 75%. The material used has a maximum CO₂ emission of 0.6 kg CO₂ per kg of steel. The low carbon emission steel used has the same mechanical properties as conventional steel and does not impose any restrictions on painting or coating processes.

The profiles of the applicable system must be 100% recyclable at the end of the life cycle and consist exclusively of steel or stainless steel.

Steel

The attachment profile is supplied Pre-Galvanized.

Aluminium

The attachment profile is supplied in aluminium AW-6060 T66

**Construction Method:**

thermfix light is a thermally insulated mullion/transom construction, fabricated by a welded and/or

screw fixed mounting to a substructure material (steel/timber/aluminium) arrangement either in the

factory or on site. This is usually determined by size, application, use, or specifier/fabricators

recommendation.

The system weatherproofing is fitted to the steel or aluminium attachment profiles once fitted to the

construction, with the glass/panel fitted onto the glass retaining mounts. The pressure plate including

system weather proofing will be fitted on the outside by means of stainless steel locking screws.

Locking screws in conjunction with the gasket/spacers guarantee a controlled locking pressure for the

system weather proofing.

**Finish:**

Finish to the external capping profiles to be Polyester powder coated to RAL/BS……. .

**Glazing details:**

Non fire

Single or double glazed units can be accommodated with generally a minimum glass thickness from

approx 8mm to a maximum of 60mm for single and double glazed units. Various combinations of

double/triple glazed units can be accommodated for either sound reduction or light transmission

requirements.

**Panel details:**

Non Fire

Various constructed panel variations can be incorporated with the Presto system, and these can be

made from steel faced two panel trays, flat steel/plastic sheets or timber panels.

**Doors & windows within thermfix light:**

Various combinations of doors and opening vents can be incorporated into the thermfix curtain walling system. Combinations that can be utilized are;

Non fire non thermally broken presto/presto xs doors and windows

Thermally broken non fire rated omnia/unico/unico xs vents & doors.

**Frame fixing to structure:**

Fixing of curtain walling can be achieved in several ways dependant upon building design and in

which manner the curtain wall is to be retained to the structure.

The framing can be retained to floor levels, structural steel work, block/concrete and within timber

constructions by utilizing individually designed welded or screwed on fixing/clamp brackets from the

profile box to the adjoining structure, or by spigot joint methods.

When fixing into concrete/stone/brick type material it is recommended that fixings should

be at least 50mm in from an edge to prevent breakout of the structure/fixing.

**Services and Advice:**

Fabrication/Technical

For fabrication or technical advice, a full processing binder is available in hardback or pdf forms, these

detail processing guidelines, techniques, detail drawings and the full range of profiles and fittings

available from Forster.

Architectural/Specification

A full specification service is available from Forster to architects and specifiers requiring assistance

with NBS specification writing. Please contact the Forster Technical Advisor in the UK or our UK

Distribution company.