

Press Release

BAU 2013

Energy Efficient Building Envelopes as One-Stop Solutions

Under the FOPPE f³+ label, FOPPE + FOPPE offers profile systems with high thermal insulation as well as efficient mounting solutions for realization of energy saving facades

Lengerich, Germany, January 2013 – At this year's BAU, FOPPE + FOPPE will present a modular solution for energy efficient building envelopes which is matched in terms of both technology and design. The different lines of high-insulation profiles and mounting solutions for optimum building physics can be combined in a modular way to meet the relevant requirements. The name of the highly functional and economical concept: FOPPE f³+. Planners and fabricators stand to benefit from the Emsland company's many years of experience in the fields of metal and facade construction as well as prefabrication.

As a specialist, FOPPE + FOPPE will fit the energy efficient profile systems and innovative components together to create object specific solutions: in the form of construction kits or fully prefabricated elements, if so desired. A new addition to the portfolio is the FOPPE EMS+SI element mounting system which can be used to safely install windows and doors in the insulation plane of facades. Other systems available include: the FOPPE HT90+SI high-performance profile for windows and doors featuring optimum insulation values; the FOPPE RP50+SI glass facade design suited for passive houses; and the cost-effective RIBIC system for subsequent insulation of facades.

A short overview serves to illustrate the product portfolio:

FOPPE HT90+SI aluminium profile with high thermal insulation for entrance doors and windows

To comply with the ever-increasing requirements of ever more stringent energy saving regulations, FOPPE + FOPPE offers the trend-setting FOPPE HT90+SI aluminium profile system: with a value of $U_f = 0.77 \text{ W/m}^2\text{K}$, the aluminium profile currently holds a leading position in the market. With a common triple glazing window design, the FOPPE HT90+SI system allows values of $U_w = 0.67 \text{ W/m}^2\text{K}$ to be attained. The outer and inner shells of the aluminium profile are connected using a highly insulating polyurethane thermal block and polyamide stays. Unlike conventional stay-based systems, the solid body design of the profile provides high stiffness and shearing strength. For recycling purposes, the polyurethane and aluminium parts can be separated, sorted by material type and supplied for recycling in their entirety. Mounting of the new profile system follows all the lines of FOPPE + FOPPE profiles: self-locking corner cleats enable quick and easy assembly without the use of any special machines.

Energy efficient FOPPE RP50+SI facade system as a construction kit

The energy efficient FOPPE RP50+SI facade system is available prefabricated from FOPPE + FOPPE as well. The system designed for post-and-beam constructions is suited for passive houses. It is made up of steel reinforced plastics profiles with an outer aluminium cover shell. Frame constructions using this system achieve a heat transmission coefficient of $U_f = 0.87 \text{ W/m}^2\text{K}$. FOPPE + FOPPE supplies the market with premachined profiles, prefabricated construction kits or even complete facade elements with site connections. The system is suited for passive houses and can be used both for vertical and for out-of-perpendicular curtain walls of one-storey or multi-storey buildings. Visual advantage of the frame constructions: they feature extremely small face widths of just 50 mm, and the wide variety of profiles and colours available provides enormous scope for creative design. For specific objects, customized solutions can be designed and developed.

RIBIC insulating facade

The RIBIC insulating facade system can be used for quick and easy energetic upgrading of facades – with lightweight building materials and a wide spectrum of design options. The system is a cost-effective solution to subsequently provide thermal insulation to cold facades. The RIBIC insulating curtain facade is a modular system comprising thermally isolated posts that can be joined together. To be suspended in this post construction are framed elements with infilling panels designed to fit client demands. Comparable to conventional insulation of a plaster facade, the construction using the RIBIC profile system is provided with up to 160 mm base insulation. The frame construction is barely visible and even allows an attractive full glass look to be achieved which cannot be realized with conventional post-and-beam systems. In place of glass elements, natural stone laminates such as the RIBIC Lightstone natural stone fleece, panels of a variety of materials as well as sophisticated photovoltaic elements can be fitted into the framework as well.

FOPPE EMS+SI element mounting system

FOPPE + FOPPE offers a new mounting system for fitting windows and doors in the insulation plane in a statically and energetically sophisticated manner. It is an economical solution providing proper connection to various facade systems in terms of building physics and is suited for masonry of any common type and structure as well as external thermal insulation composite systems (ETICS).

With FOPPE EMS+SI, a PVC angle is used to extend the reveal opening in the masonry into the insulation plane. The angle is made of recycled plastic windows and in conjunction with its excellent insulation properties is extremely resource-efficient. The 97 and 147 millimetre leg lengths of the mounting angle fit most wall designs for external wall rehabilitation and new buildings executed to comply with the German Energy Saving Ordinance (EnEV). To adjust the angle to suit the different insulating material thicknesses, it needs only be turned. For connection of the window, use can be made of the easy-to-install ClearoPAG 167 volume aerosol adhesive which is available from FOPPE + FOPPE as well. The new mounting angle in combination with ClearoPAG 167 enables a heat transmission coefficient of $0.0352 \text{ W/m}^2\text{K}$ to be achieved for maximum thermal insulation. Also new is

the highly insulating FOPPE FROTH-PAK™ foamed concrete which is used for solid support and connection of window sills while at the same time providing high sound insulation.

Meet FOPPE + FOPPE at BAU 2013 in Hall C1, Stand 115

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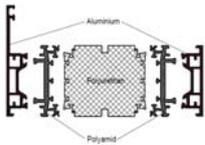
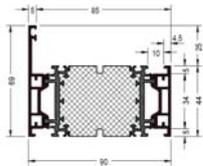
Press information and printable pictorial material available for download at the following link:

<http://download.proesler.com/foppe-bau13en.zip>

FOPPE HT90+SI illustrations: FOPPE SYSTEME



The FOPPE HT90+SI aluminium profile ensures top-class values; illustration: FOPPE HT90 SI.jpg

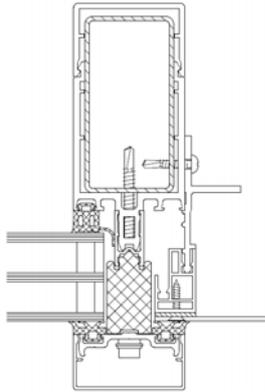


Schematic drawing of the high-insulation FOPPE HT90+SI aluminium profile; illustration: FOPPE HT90 SI_ Rahmen.pdf

FOPPE RP50+SI illustrations: Rehau AG + Co



Building envelopes using the energy efficient FOPPE RP50+SI facade system
Illustrations: FOPPE RP50+SI.jpg and FOPPE RP50+SI_2.jpg



Post with fixed glazing and side mounted connection profile

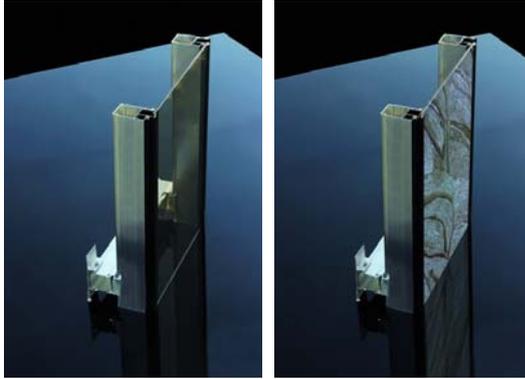
Illustration: RP50SI Festverglasung.pdf

RIBIC insulating facade system illustrations: RIBIC®Systems GmbH & Co. KG



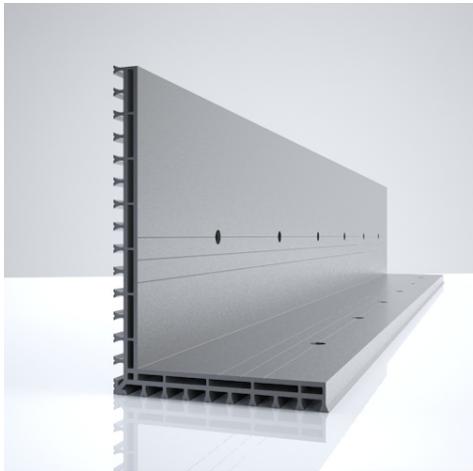
New and prefabricated at FOPPE + FOPPE, if so desired: high-insulation facades. RIBIC natural stone fleece offers a wide spectrum of design options

Illustrations: D1-20.21.03e_Titel_Laminat_kl.jpg



Frame construction with glass panel and with RIBIC natural stone fleece
 Illustration: D1-20.21.03d_Dämm_8473.jpg,
 illustration: D1-20.21.03e_Laminat_Montage.jpg

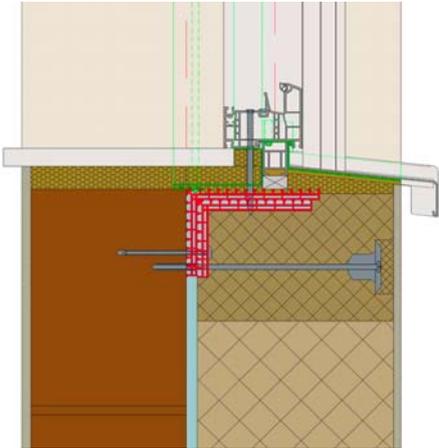
FOPPE EMS+SI illustrations: FOPPE ZUBEHÖR



The FOPPE EMS+SI element mounting system: PVC angle with multi-chamber structure
 Illustration: FOPPE EMS+SI_Spot.jpg



The FOPPE EMS+SI element mounting system ensures both economical and statically and energetically sophisticated fitting of windows and doors in the insulation plane
 Illustration: FOPPE EMS+SI.jpg



The FOPPE EMS+SI element
mounting system fitted in place
Illustration: FOPPE EMS+SI_Schnitt.jpg