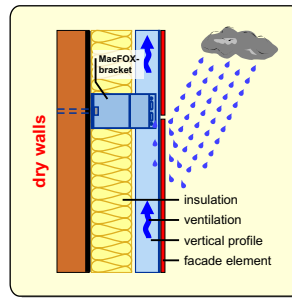


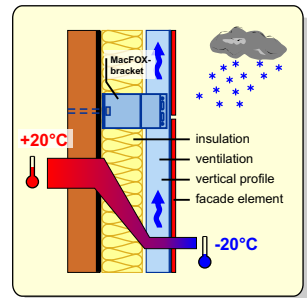
Basics of ventilated facades

Building physics

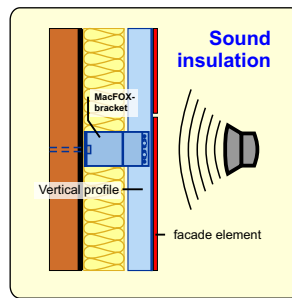
ventilated Rainscreen



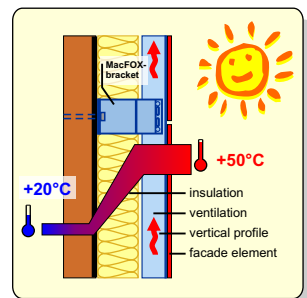
Thermal insulation-Cold



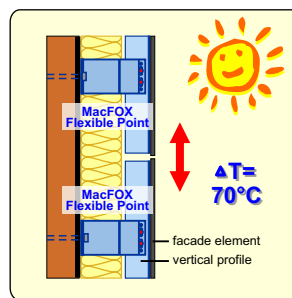
Sound insulation



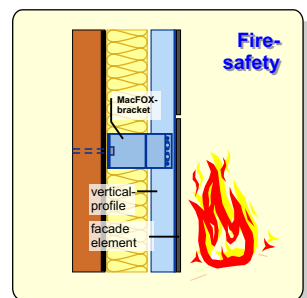
Thermal insulation-Heat



Thermal expansion

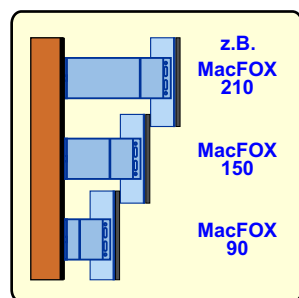


Fire safety

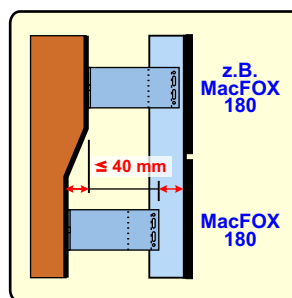


The advantages of EUROFOX systems

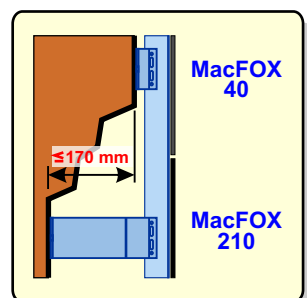
Versatile facade design



Alignment and levelling



Large tolerances



Project Checklist

To provide you with an offer please complete and submit a project checklist, ideally accompanied with elevation and plan AutoCAD drawings, indicating your proposed cladding requirements. This will allow us to prepare a project specific cladding solution, including static calculations, setting out information and overlay drawings for the system and panels. See www.eurofoxengineering.com for "Project Checklist"

Info from: Date:

1 new building renovation 2 **Area**m²

Name:

Address:

3 **Facade-element**

<input type="checkbox"/> Ceramic / Thin Stone	<input type="checkbox"/> HPL
<input type="checkbox"/> Metal / ACM	<input type="checkbox"/> Terracotta
<input type="checkbox"/> Fibrecement	<input type="checkbox"/> Render
<input type="checkbox"/> Timber	
<input type="checkbox"/> Make	<input type="checkbox"/> Size

4 **Fixing method**

Secret fix	Visible fix
<input type="checkbox"/> mechanical	<input type="checkbox"/> rivets
<input type="checkbox"/> adhesive	<input type="checkbox"/> screws

5 **Project data**

Building height..... m ¹	Windloads
Storey height m ¹	general kN/m ²
Window height..... m ¹	special kN/m ²
Other:	

6 **Wall condition**

<input type="checkbox"/> Steel	Cert. pullout of prim. fixing.....kN
<input type="checkbox"/> Concrete	Insulationmm
<input type="checkbox"/> Brick	Type of fixing
<input type="checkbox"/>	Cladding zone

7 **CAD - Plans**

<input type="checkbox"/> yes	<input type="checkbox"/> view of claddings
<input type="checkbox"/> no	<input type="checkbox"/> arrangement of panels
	<input type="checkbox"/> horizontal section
	<input type="checkbox"/> vertical section
	<input type="checkbox"/> details
	<input type="checkbox"/> window details

8 **Client / Architect**

Name:.....
 Address:.....
 Email:.....

9 **Installation Company**

Name:.....
 Address:.....
 Email:.....

10 **Schedule**

Planning..... Offer..... Installation.....

EUROFOX service package

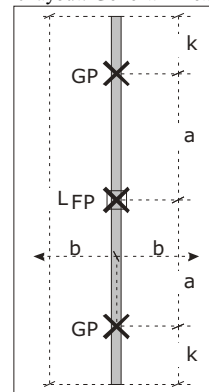
EUROFOX static analysis

- Primary fixing dimensions in accordance with local authority regulations and local pull out testing (primary fixing)
- Verification of flexible points (dynamic load / pressure) and fixed points (deadload, cladding and windloads)
- Verification of profiles



PROJECT NAME	
Fibre cement Panel 8mm, app. 14,6 kg/m ² on EuroFOX System MTA-v-100 - Mac Fox 90mm Brackets	
	LF. 1
1. OBJECT DATA	
Facade height	h 30 m
Length of profile	L 2,30 m
MacFOX-Bracket Type	Typ 90 mm
Distance between primary fixings	a 0,82
Distance bracket to end of profile (Max.)	k 0,33
Vertical spacing between profiles	b 0,60 m
2. ASSUMED LOADS	
Facade weight	g 0,15 kN/m ²
Dynamic pressure	q 1,07 kN/m ²
Windload (1,15.q)	wd 1,23 kN/m ²
Wind suction (1,0.q)	ws 1,07 kN/m ²
Primary fixing strength windloads and factors acc. BS6399-2	Dzul 0,80 kN
3. FIXED POINT BRACKETS (FP)	MacFOX-L-90
Assembly at fixed point brackets	4 screws or rivets, 2 primary fixing per bracket
Facade weight	$G = g \cdot b \cdot L =$ 0,20 kN
Wind suction (horizontal)	$H = ws \cdot b \cdot a =$ 0,53 kN
Strength coefficient	$\alpha = H/G =$ 2,61
	$G_{zul,4} =$ 1,36 kN
	Load: Weight + Wind suction
	$< G_{zul} =$ 0,34
	$< H_{zul} =$ 0,89
	$G_N =$ 0,76 kN
	$G_D =$ 0,34 kN
4. FLEXIBLE POINT BRACKETS (GP)	MacFOX-M-90
Assembly at flexible point brackets	2 screws / rivets (in elongated holes) 1 primary fixing per bracket
Windsuction (horizontal)	$H = ws \cdot b \cdot a =$ 0,53 kN
Ref. Static Calculation 1.1.2	$H_{zul} = 0,67 \cdot D =$ 0,54 kN
5. L-PROFILE 40/60/1,8 mm	L-Profile 40/60/1,8 (simplified calculation)
From data sheet H-35	$M_x \text{ zul} =$ 0,14 kNm
Moment of support	$E \cdot I_x =$ 3,98 kNm ²
Moment of field	$M_s =$ 0,05 kNm
Curvature of profile	$M_f =$ 0,03 kNm
	$f =$ 0,03 cm
	$< M \text{ zul} =$ 0,14
	$< M \text{ zul} =$ 0,14
	$< a/300 =$ 0,27
6. THERMAL EXPANSION	Expansion over range of 70° Temp. difference (+10 to+80)
	$\Delta l = L/2 \cdot 70 \cdot 0,0023 =$ 0,19 cm
	$< \Delta l \text{ zul} =$ 0,5 (Tol.)

Indicative frame layout: **General Areas**



EUROFOX installation training

- We can provide your installation personnel with on-site instruction