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# Recticel Facade & Wall Section Details

15.11.2026



## CONCRETE

| | |
|---|---|
| Concrete sandwich, IP PIR | FA001-0 |
| ○ Window detail | FA001-1 |
| Cavity wall, Eurothane EWall | FA002-0 |
| ○ Window detail | FA002-1 |
| Ventilated façade, Powerwall S | FA003-0 |
| ○ Window detail | FA003-1 |
| Ventilated façade, Powerwall+ | FA004-0 |
| ○ Window detail | FA004-1 |
| Ventilated facade, Powerwall Pro | FA005-0 |
| ○ Window detail | FA005-1 |
| ○ Exterior corner | FA005-2 |
| Facade renovation (sandwich) | FA006-0 |

## TIMBER FRAME

| | |
|---|---|
| PIR / MW hybrid solution | WL001-0 |
| Full-PIR solution, continuous layer inside | WL002-0 |
| Full-PIR solution, continuous layer outside | WL003-0 |

## LIGHT WEIGHT CONCRETE (LWAC BLOCKS)

| | |
|---|---|
| Continuous PIR layer inside | WL004-0 |
| Continuous PIR layer outside | WL005-0 |

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Y-tunnus: 2816195-7 / BTW BE 405 666 668 / RPR 0405 666 668 / Fortis 230-0024770-55

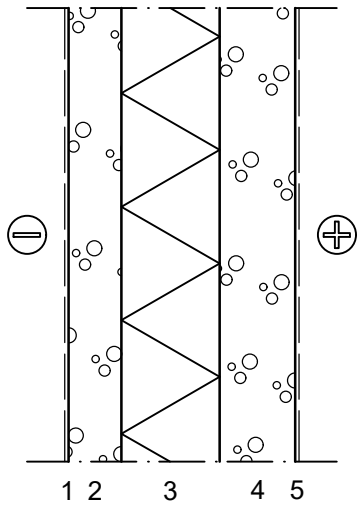
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Facade
Assembly drawing
Concrete full-sandwich element
Thermal insulation: Recticel IP PIR

# FA001-0

DATE 15/11/2026 | SCALE 1:10

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




LAYERS

1. Exterior surface finish

2. Concrete shell

3. Core insulation: Recticel IP PIR (polyurethane insulation EN 13165)
   - Thermal conductivity: $\lambda_D$ = 0,022 W/(m·K)
   - Edge profile: Straight edge on all sides

   - Sealing of the joints according projects specifications
   - Pins (pushed through insulation) or diagonal rebaring (placed on insulation board joints) according to structural plans

4. Concrete shell, load bearing or non-load bearing

5. Interior surface finish

| ENERGY EFFICIENCY | INSULATION THICKNESSES | U-VALUE |
|---|---|---|
| Semi-warm | IP PIR 80 mm | 0,27 W/(m$^2$·K) |
| Warm | IP PIR 130 mm | 0,17 W/(m$^2$·K) |
| High Energy Efficiency | IP PIR 200 mm | 0,11 W/(m$^2$·K) |

Thermal transmittance calculation input values:
- Calculations according to EN ISO 6946:2017
- Surface resistances: $R_{si}$ = 0,13 m$^2$·K/W, $R_{se}$ = 0,04 m$^2$·K/W
- Thermal conductivities: IP PIR 022 $\lambda_U$ = 0,022 W/(m·K), Concrete λ = 2,5 W/(m·K) 100 + 70 mm
- Fastener correction factor $\Delta U_f$ calculated with Stainless Steel Ø5 mm 6 pcs/m$^2$

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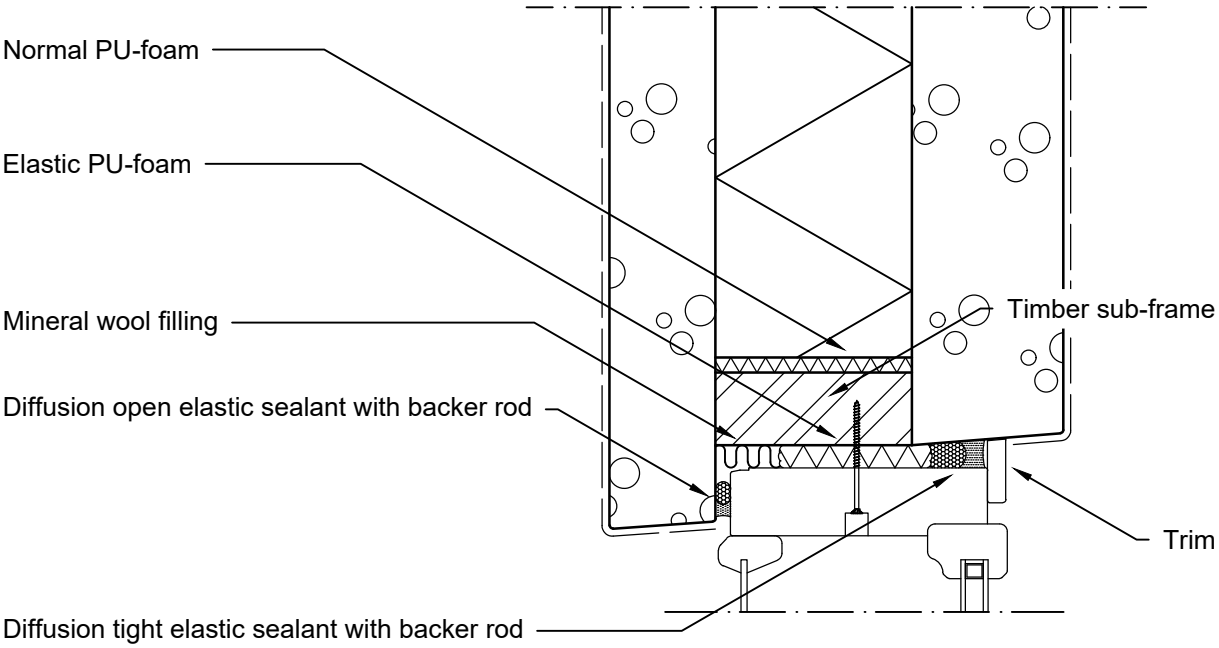
Facade
Window connection detail example
Concrete full-sandwich element
Thermal insulation: Recticel IP PIR

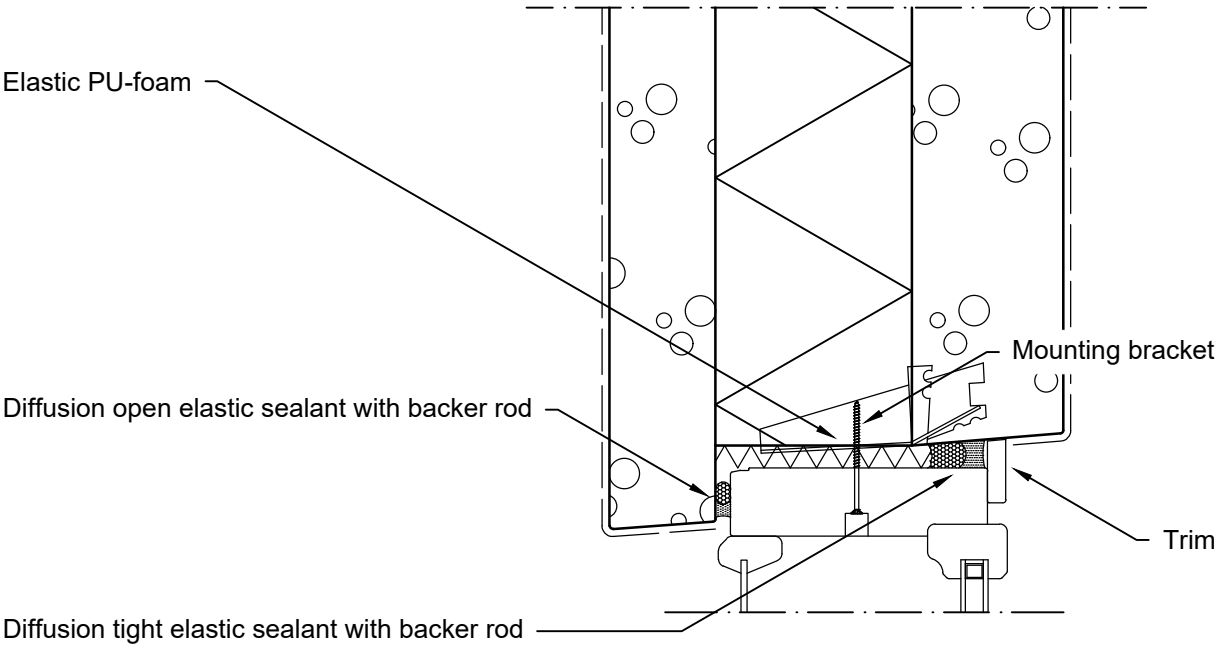
# FA001-1

DATE 15/11/2026

SCALE 1:5

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




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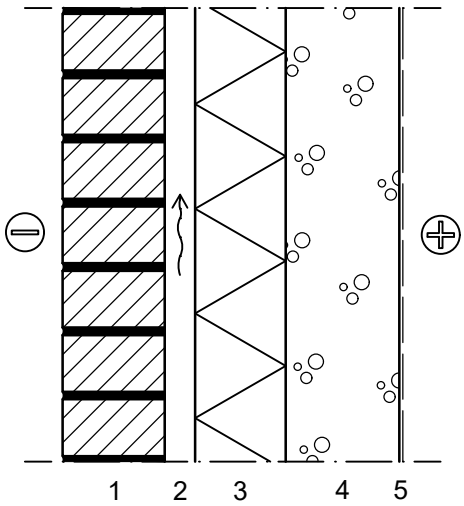
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Facade, cavity wall
Assembly drawing
Concrete semi-sandwich element
Thermal insulation: Recticel Eurothane EWall

# FA002-0

DATE 15/11/2026 | SCALE 1:10

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




LAYERS

1. Masonry cladding

2. Ventilation gap

3. Thermal insulation: Recticel Eurothane EWall (polyurethane insulation EN 13165)
   - Thermal conductivity: $\lambda_D$ = 0,022 W/(m·K)
   - Edge profile: Full tongue-and-groove
   - Reaction to fire: E

   - Sealing of the joints according projects specifications
   - Installed at site with mechanical fasteners, eg. brick ties or dedicated insulation fasteners

4. Concrete shell, load bearing or non-load bearing

5. Interior surface finish

| ENERGY EFFICIENCY | INSULATION THICKNESSES | U-VALUE |
|---|---|---|
| Semi-warm | Eurothane EWall 100 mm | 0,21 W/(m$^2$·K) |
| Warm | Eurothane EWall 120 mm | 0,17 W/(m$^2$·K) |
| High Energy Efficiency | Eurothane EWall 180 mm | 0,12 W/(m$^2$·K) |

Thermal transmittance calculation input values:
- Calculations according to EN ISO 6946:2017
- Surface resistances: $R_{si}$ = 0,13 m$^2$·K/W, $R_{se}$ = 0,13 m$^2$·K/W
- Thermal conductivities: Eurothane EWall $\lambda_U$ = 0,022 W/(m·K), Concrete λ = 2,5 W/(m·K) 150 mm
- Fastener correction factor $\Delta U_f$ calculated with Stainless Steel Ø4 mm 4 pcs/m$^2$

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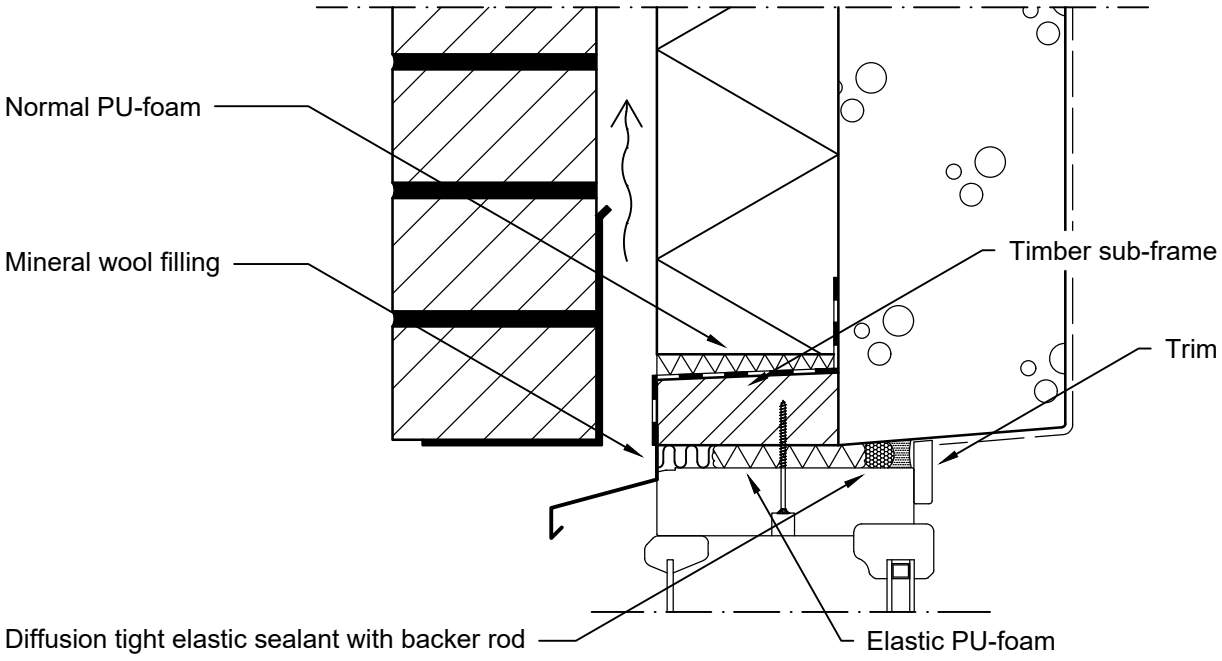
Facade, cavity wall
Window connection detail
Concrete semi-sandwich element
Thermal insulation: Recticel Eurothane EWall

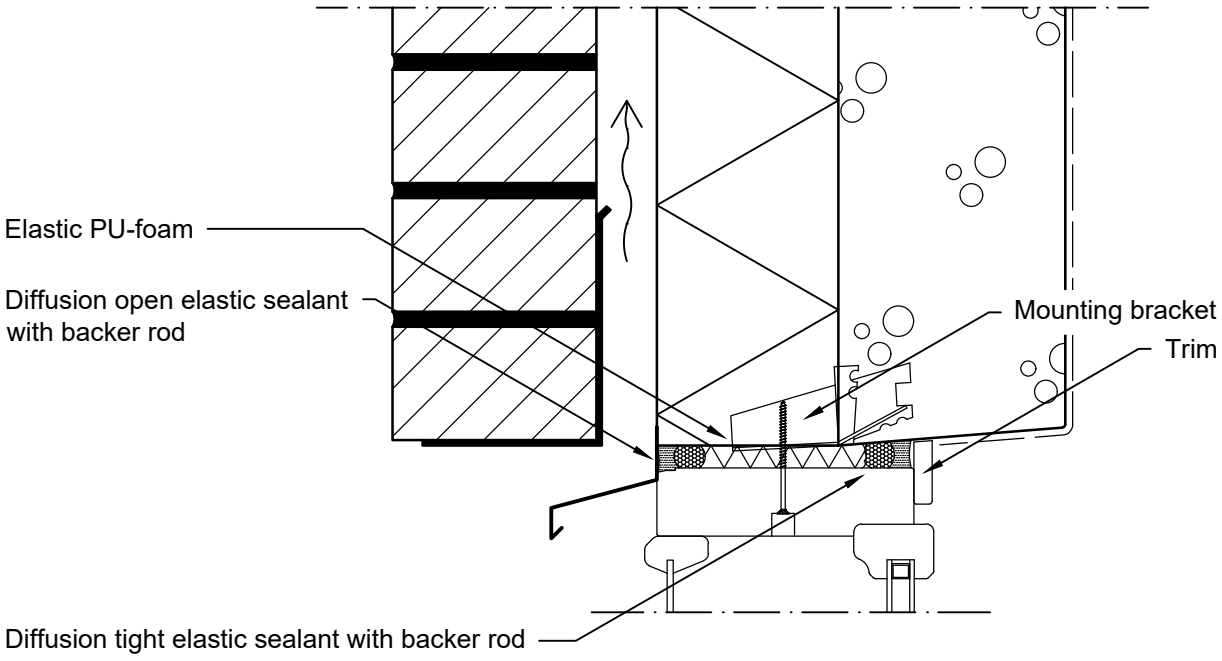
# FA002-1

DATE 15/11/2026

SCALE 1:5

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




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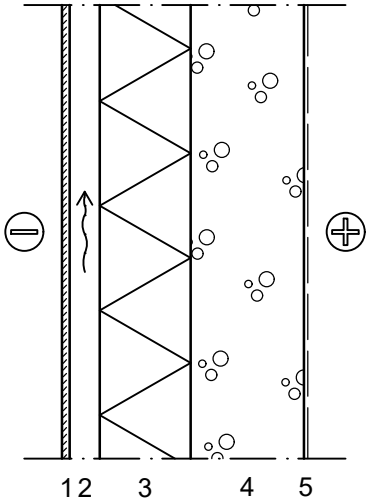
Facade, ventilated rainscreen
Assembly drawing
Concrete semi-sandwich element
Thermal insulation: Recticel Powerwall S

# FA003-0

DATE 15/11/2026

SCALE 1:10

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




LAYERS

1. Outer cladding, for example steel cassette, cement fiber panel or ACM

2. Ventilation gap

3. Thermal insulation: Recticel Powerwall S (polyurethane insulation EN 13165)
   - Thermal conductivity: $\lambda_D$ = 0,022 W/(m·K)
   - Edge profile: Straight edge or shiplap
   - Reaction to fire: D-s2, d0

   - Sealing of the joints according projects specifications
   - Installation at site or at concrete element factory
   - Mechanically fastened with ventilation gap fasteners or dedicated insulation fasteners

4. Concrete shell, load bearing or non-load bearing

5. Interior surface finish

| ENERGY EFFICIENCY | INSULATION THICKNESSES | U-VALUE |
|---|---|---|
| Semi-warm | Powerwall S 100 mm | 0,21 W/(m$^2$·K) |
| Warm | Powerwall S 120 mm | 0,17 W/(m$^2$·K) |
| High Energy Efficiency | Powerwall S 180 mm | 0,12 W/(m$^2$·K) |

Thermal transmittance calculation input values:
- Calculations according to EN ISO 6946:2017
- Surface resistances: $R_{si}$ = 0,13 m$^2$·K/W, $R_{se}$ = 0,13 m$^2$·K/W
- Thermal conductivities: Powerwall S $\lambda_U$ = 0,022 W/(m·K), Concrete λ = 2,5 W/(m·K) 150 mm
- Fastener correction factor $\Delta U_f$ calculated with Stainless Steel Ø4 mm 4 pcs/m$^2$

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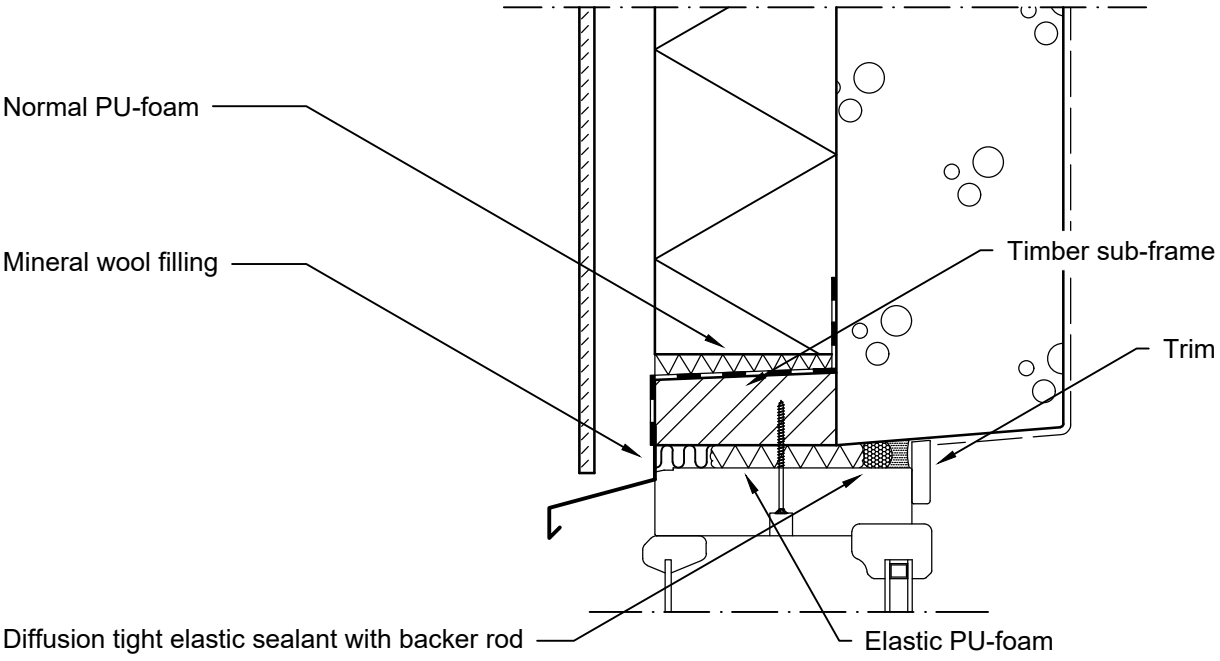
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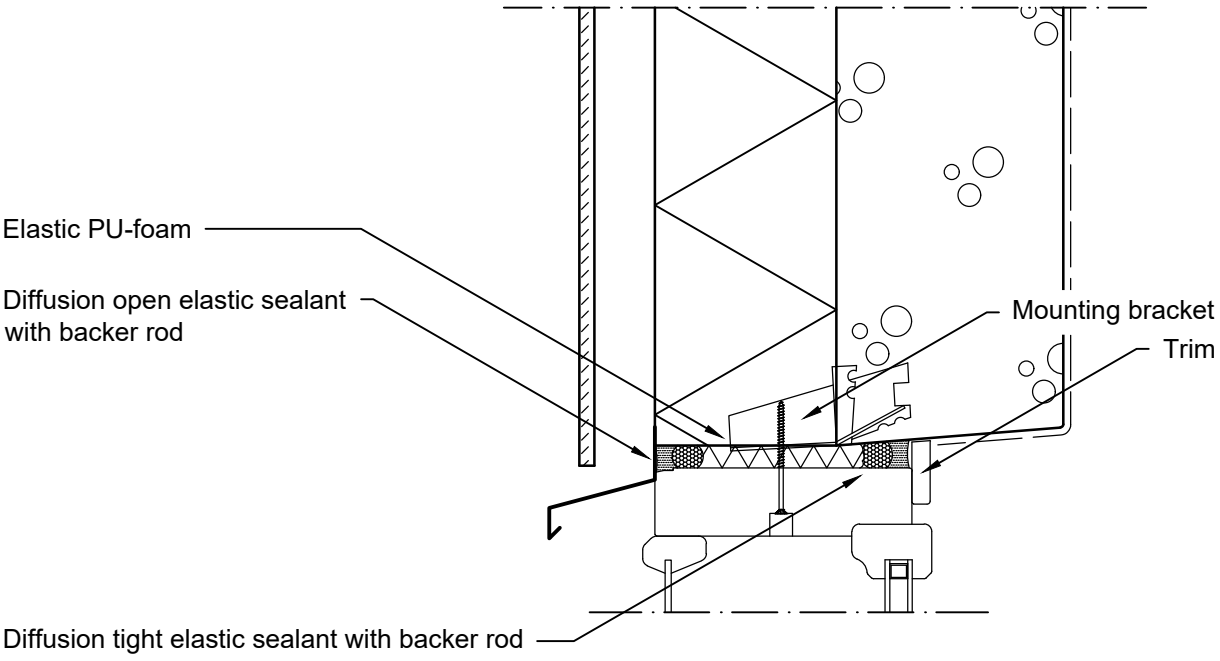
Facade, ventilated rainscreen
Window connection detail
Concrete semi-sandwich element
Thermal insulation: Recticel Powerwall S

# FA003-1

| DATE | SCALE |
|---|---|
| 15/11/2026 | 1:5 |

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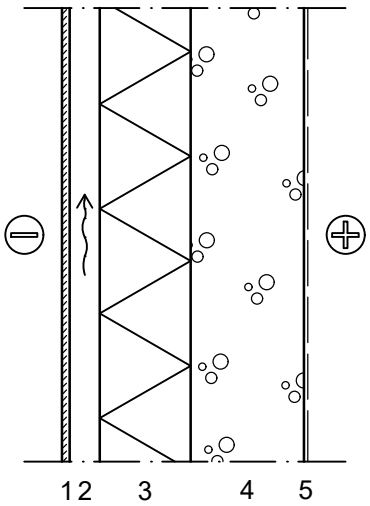
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Facade, ventilated rainscreen
Assembly drawing
Concrete semi-sandwich element
Thermal insulation: Recticel Powerwall+

# FA004-0

DATE 15/11/2026 | SCALE 1:10

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




LAYERS

1. Outer cladding, for example steel cassette, cement fiber panel or ACM

2. Ventilation gap

3. Thermal insulation: Recticel Powerwall+ (polyurethane insulation EN 13165)
   - Thermal conductivity: $\lambda_D$ = 0,022 W/(m·K)
   - Edge profile: Straight edge or shiplap
   - Reaction to fire: D-s2, d0

   - Sealing of the joints according projects specifications
   - Installation at site or at concrete element factory
   - Mechanically fastened with ventilation gap fasteners or dedicated insulation fasteners

4. Concrete shell, load bearing or non-load bearing

5. Interior surface finish

| ENERGY EFFICIENCY | INSULATION THICKNESSES | U-VALUE |
|---|---|---|
| Semi-warm | Powerwall+ 100 mm | 0,21 W/(m$^2$·K) |
| Warm | Powerwall+ 120 mm | 0,17 W/(m$^2$·K) |
| High Energy Efficiency | Powerwall+ 180 mm | 0,12 W/(m$^2$·K) |

Thermal transmittance calculation input values:
- Calculations according to EN ISO 6946:2017
- Surface resistances: $R_{si}$ = 0,13 m$^2$·K/W, $R_{se}$ = 0,13 m$^2$·K/W
- Thermal conductivities: Powerwall+ $\lambda_U$ = 0,022 W/(m·K), Concrete λ = 2,5 W/(m·K) 150 mm
- Fastener correction factor $\Delta U_f$ calculated with Stainless Steel Ø4 mm 4 pcs/m$^2$

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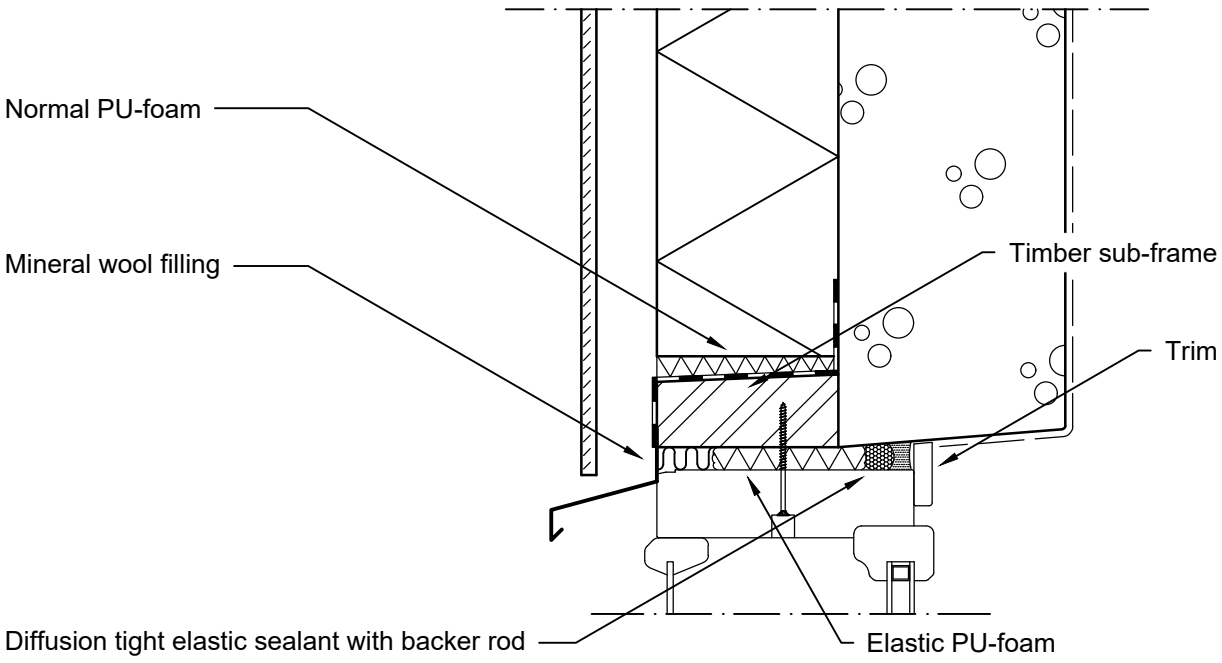
Facade, ventilated rainscreen
Window connection detail
Concrete semi-sandwich element
Thermal insulation: Recticel Powerwall+

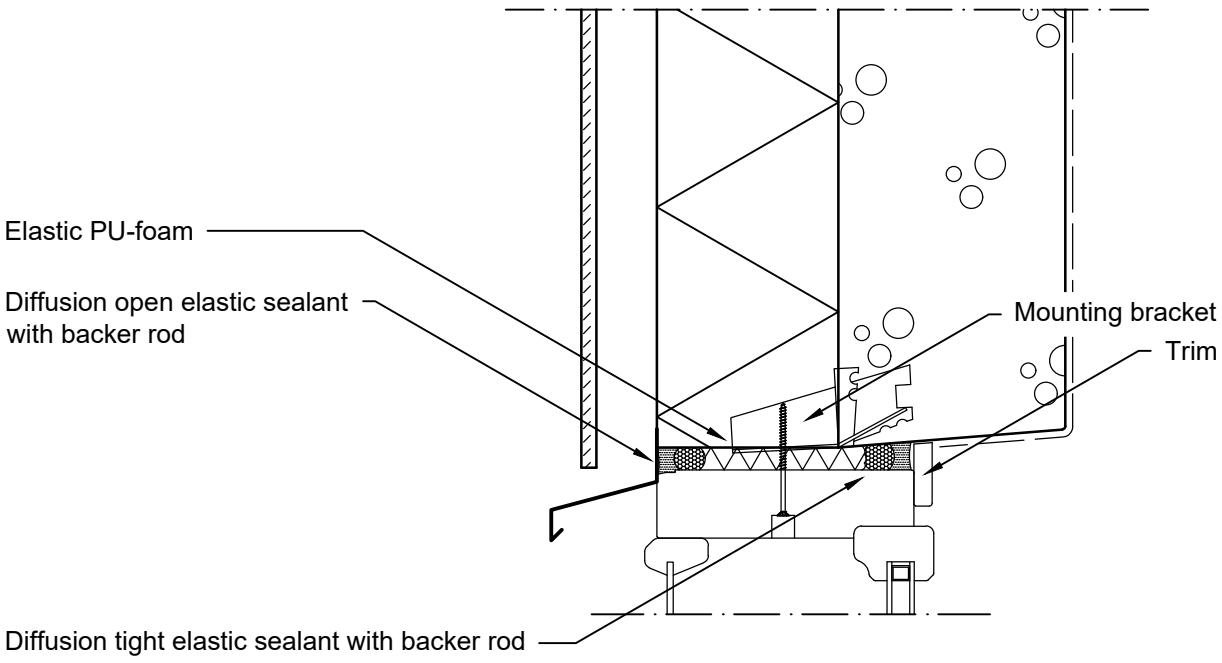
# FA004-1

DATE 15/11/2026

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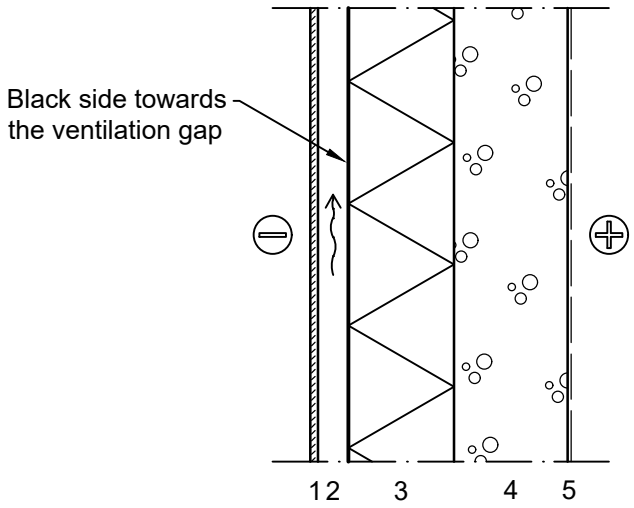
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Facade, ventilated rainscreen
Assembly drawing
Concrete semi-sandwich element
Thermal insulation: Recticel Powerwall Pro

# FA005-0

DATE 15/11/2026 | SCALE 1:10

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




LAYERS

1. Outer cladding, for example steel cassette, cement fiber panel or ACM

2. Ventilation gap

3. Thermal insulation: Recticel Powerwall Pro (polyurethane insulation EN 13165)
   - Thermal conductivity: $\lambda_D$ = 0,027 W/(m·K) <100 mm
     $\lambda_D$ = 0,025 W/(m·K) ≥100 mm
   - Edge profile: Straight edge or shiplap
   - Reaction to fire: B-s1, d0 (black side)

   - Sealing of the joints according projects specifications
   - Installation at site or at concrete element factory
   - Mechanically fastened with ventilation gap fasteners or dedicated insulation fasteners

4. Concrete shell, load bearing or non-load bearing

5. Interior surface finish

| ENERGY EFFICIENCY | INSULATION THICKNESSES | U-VALUE |
|---|---|---|
| Semi-warm | Powerwall Pro 100 mm | 0,25 W/(m$^2$·K) |
| Warm | Powerwall Pro 140 mm | 0,17 W/(m$^2$·K) |
| High Energy Efficiency | Powerwall Pro 170 mm | 0,14 W/(m$^2$·K) |

Thermal transmittance calculation input values:
- Calculations according to EN ISO 6946:2017
- Surface resistances: $R_{si}$ = 0,13 m$^2$·K/W, $R_{se}$ = 0,13 m$^2$·K/W
- Thermal conductivities: Powerwall Pro according to thickness $\lambda_U$ = 0,025 / 0,027 W/(m·K), Concrete λ = 2,5 W/(m·K) 150 mm
- Fastener correction factor $\Delta U_f$ calculated with Stainless Steel Ø4 mm 4 pcs/m$^2$

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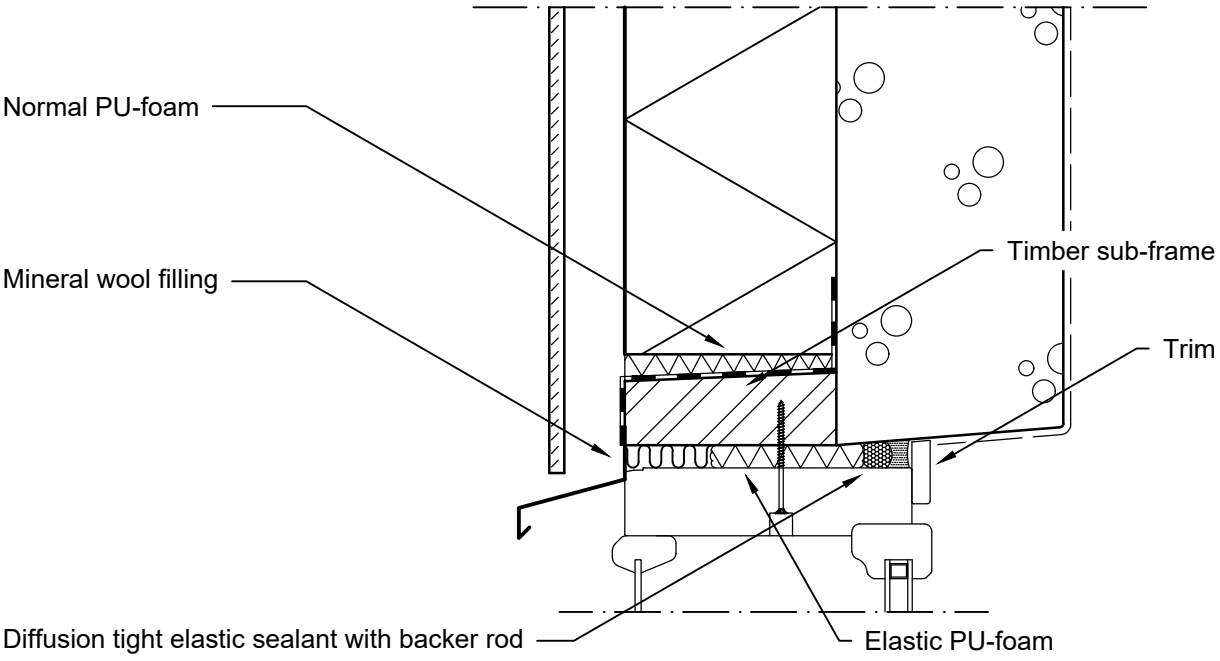
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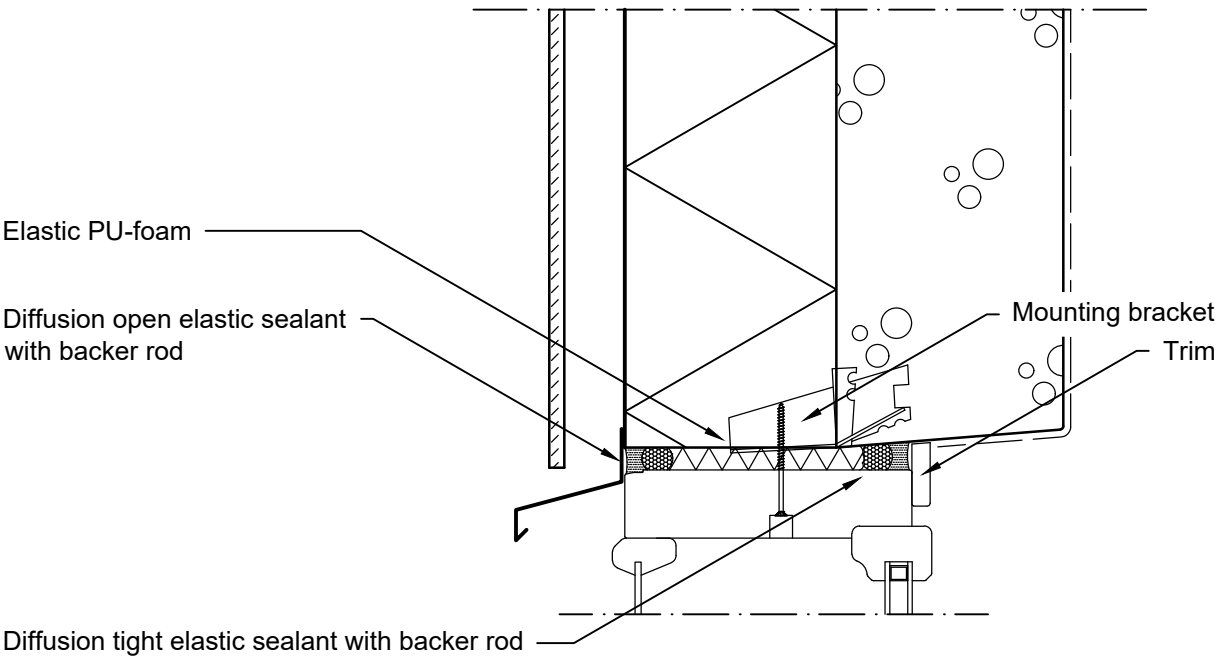
Facade, ventilated rainscreen
Window connection detail
Concrete semi-sandwich element
Thermal insulation: Recticel Powerwall Pro

# FA005-1

| DATE | SCALE |
|---|---|
| 15/11/2026 | 1:5 |

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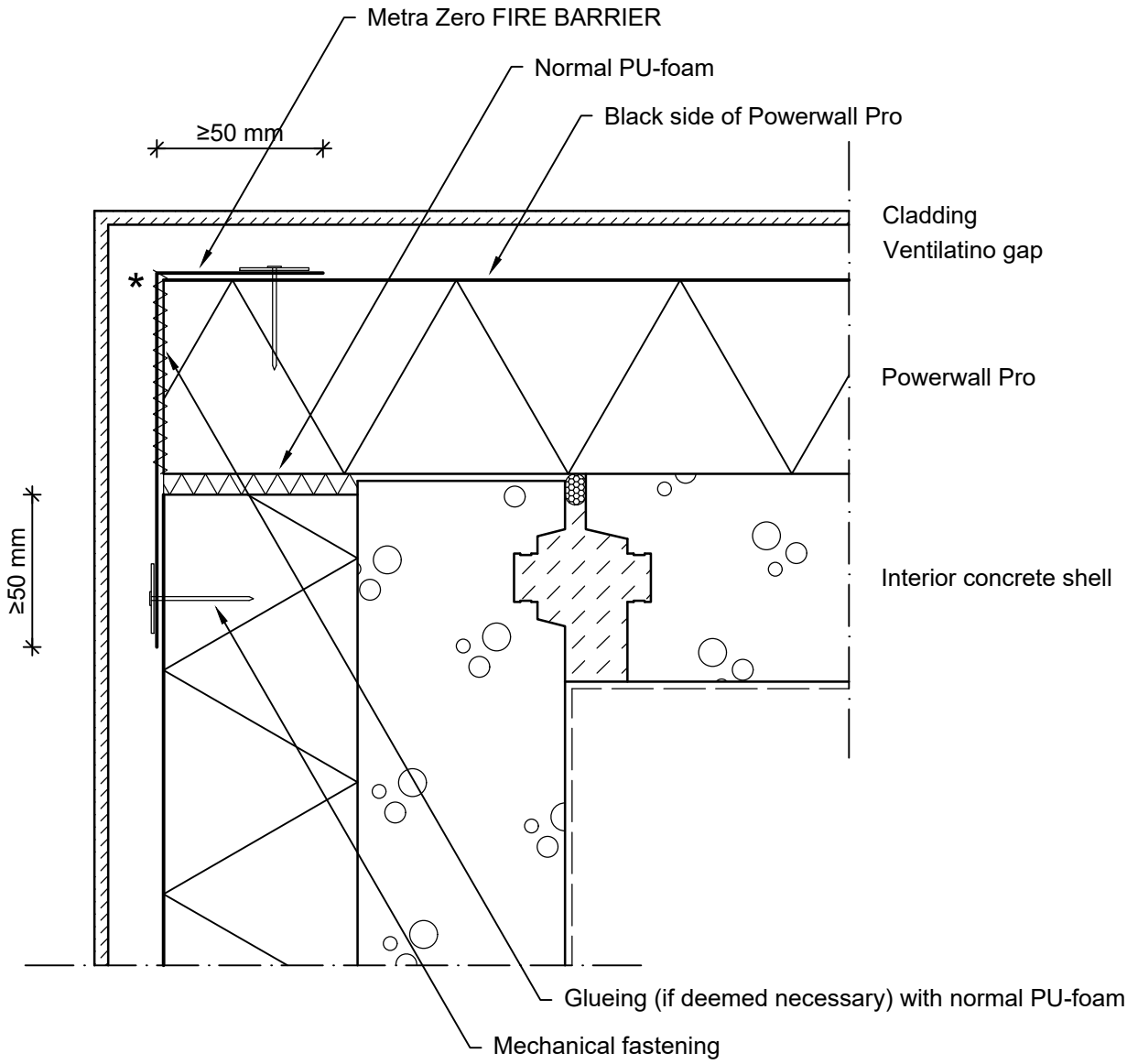
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Facade, ventilated rainscreen
Exterior corner detail
Concrete semi-sandwich element
Thermal insulation: Recticel Powerwall Pro

# FA005-2

| DATE | SCALE |
|---|---|
| 15/11/2026 | 1:5 |

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




## * FIRE PROTECTION OF EXPOSED FOAM CORE ON EXTERIOR CORNER

Exterior corner is protected with Metra Zero FIRE BARRIER by installing it on top of exposed foam core and wrapped over the corner.

Fastening; FIRE BARRIER is fastened mechanically from the edges with metal fasteners (nails 75x28 + metal washer Ø50 mm cc300) on insulation. In addition to mechanical fasteners, normal PU-foam can be used as a glue to improve the adhesion, if deemed necessary.

Metra Zero FIRE BARRIER roll specifications

- Width 390 mm
- Length 40 m
- Weight 11,23 kg

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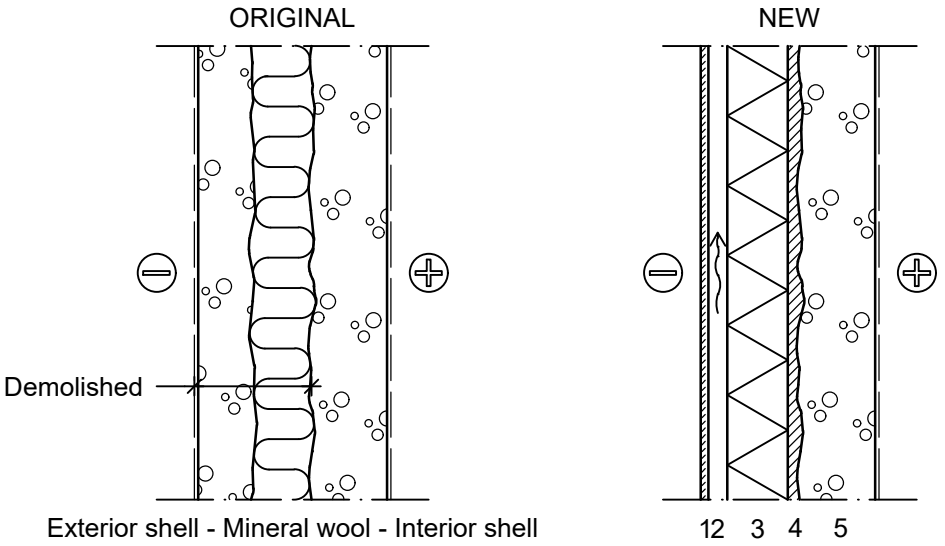
Facade, renovation
Assembly drawing
Concrete full-sandwich element facade, heavy renovation
Thermal insulation: Recticel facade products

# FA006-0

DATE 15/11/2026

SCALE 1:10

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




LAYERS

1. New outer cladding
2. Ventilation gap
3. Recticel thermal insulation product selected according to projects specifications
   - See options in assembly drawings FA002-0..FA005-0
4. Leveling coat with plaster or infill with soft mineral wool
5. Original interior concrete shell and surface finish

| ENERGY EFFICIENCY | INSULATION THICKNESSES | U-VALUE |
|---|---|---|
| Half of the original U-value | Mineral wool 30 mm and Powerwall+ or Powerwall S 80 mm | 0,21 W/(m$^2$·K) |
| Warm | Mineral wool 30 mm and Powerwall+ or Powerwall S 120 mm | 0,15 W/(m$^2$·K) |
| High Energy Efficiency | Mineral wool 30 mm and Powerwall+ or Powerwall S 130 mm | 0,14 W/(m$^2$·K) |
| Original assembly: Exterior shell 70 mm + Old mineral wool 80..100 mm + Interior shell 100 mm 0,51..0,42 W/(m$^2$·K) | | |

Thermal transmittance calculation input values:

- Calculations according to EN ISO 6946:2017
- Surface resistances: $R_{si}$ = 0,13 m$^2$·K/W, $R_{se}$ = 0,13 m$^2$·K/W, except on original assembly $R_{se}$ = 0,04 m$^2$·K/W
- Thermal conductivities: Powerwall+ and Powerwall S $\lambda_U$ = 0,022 W/(m·K), Mineral wool $\lambda_U$ = 0,038 W/(m·K), Concrete λ = 2,5 W/(m·K) 100 mm, Old mineral wool $\lambda_U$ = 0,045 W/(m·K)
- Fastener correction factor $\Delta U_f$ calculated with Stainless Steel Ø4 mm 4 pcs/m$^2$, except on original assembly Stainless Steel Ø5 mm 6 pcs/m$^2$

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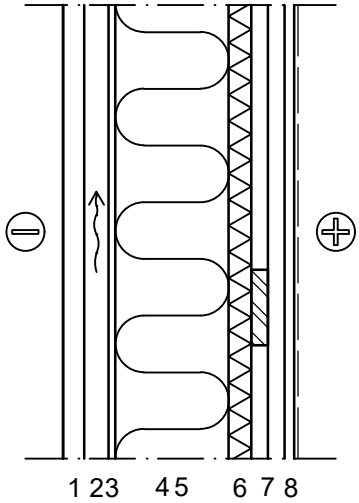
Wall structure with timber frame
Assembly drawing
Hybrid solution
Thermal insulation: Recticel Eurothane EWall

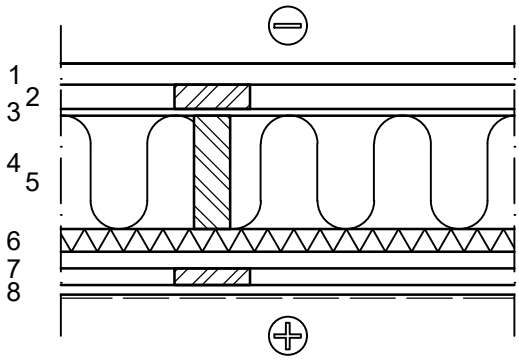
# WL001-0

DATE 15/11/2026

SCALE 1:10

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




LAYERS

1. Outer cladding and ventilation gap

2. Wind barrier board

3. Timber frame with fiber insulation

4. Thermal insulation and vapour barrier: Recticel Eurothane EWall (polyurethane insulation EN 13165)
   - Thermal conductivity: $\lambda_D$ = 0,022 W/(m·K)
   - Edge profile: Full tongue-and-groove

   - Joints sealed with PU foam and vapour barrier tape
   - Fastening to timber frame with mechanical fasteners

5. Installation gap battens, for eg. electrical installations

6. Interior board and surface finish

| ENERGY EFFICIENCY | INSULATION THICKNESSES | U-VALUE |
|---|---|---|
| Semi-warm | Fiber ins. 100 mm between frame and Eurothane EWall 20 mm | 0,23 W/(m$^2$·K) |
| Warm | Fiber ins. 150 mm between frame and Eurothane EWall 30 mm | 0,17 W/(m$^2$·K) |
| Warm | Fiber ins. 170 mm between frame and Eurothane EWall 20 mm | 0,17 W/(m$^2$·K) |
| High Energy Efficiency | Fiber ins. 150 mm between frame and Eurothane EWall 80 mm | 0,12 W/(m$^2$·K) |

Thermal transmittance calculation input values:
- Calculations according to EN ISO 6946:2017
- Surface resistances: $R_{si}$ = 0,13 m$^2$·K/W, $R_{se}$ = 0,13 m$^2$·K/W
- Thermal conductivities: Eurothane EWall $\lambda_U$ = 0,022 W/(m·K), Fiber insulation $\lambda_U$ = 0,036 W/(m·K), Interior board λ = 0,21 W/(m·K) 12,5 mm, Wind barrier board λ = 0,21 W/(m·K) 9,5 mm
- Installation gap (closed air space) surfaces: ε = 0,9 and Eurothane EWall ε = 0,05
- Timber taken into account cc600 (frame and installation gap), timber λ = 0,12 W/(m·K)

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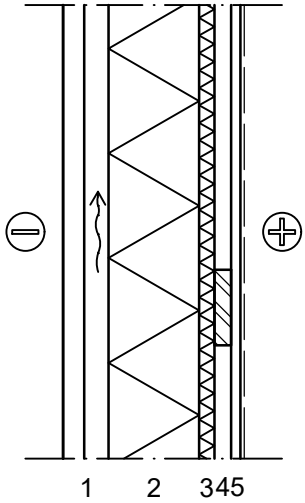
Wall structure with timber frame
Assembly drawing
Full-PIR solution
Thermal insulation: Recticel Eurothane EWall

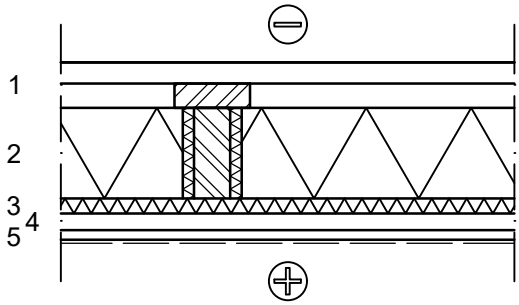
# WL002-0

DATE 15/11/2026

SCALE 1:10

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




LAYERS

1. Outer cladding and ventilation gap

2. Timber frame with thermal insulation: Recticel Eurothane EWall (polyurethane insulation EN 13165)
   - Thermal conductivity: $\lambda_D$ = 0,022 W/(m·K)
   - Edge profile: Full tongue-and-groove
   - Joints sealed with PU foam

3. Thermal insulation, continuous layer: Recticel Eurothane EWall
   - Joints sealed with PU foam, if necessary, also with vapour barrier tape
   - Fastening to timber frame with mechanical fasteners

4. Installation gap battens, for eg. electrical installations

5. Interior board and surface finish

| ENERGY EFFICIENCY | INSULATION THICKNESSES | U-VALUE |
|---|---|---|
| Semi-warm | Eurothane EWall 70 mm between frame + EWall 20 mm | 0,24 W/(m$^2$·K) |
| Warm | Eurothane EWall 120 mm between frame + EWall 20 mm | 0,17 W/(m$^2$·K) |
| High Energy Efficiency | Eurothane EWall 200 mm between frame + EWall 20 mm | 0,12 W/(m$^2$·K) |

Thermal transmittance calculation input values:
- Calculations according to EN ISO 6946:2017
- Surface resistances: $R_{si}$ = 0,13 m$^2$·K/W, $R_{se}$ = 0,13 m$^2$·K/W
- Thermal conductivities: Eurothane EWall $\lambda_U$ = 0,022 W/(m·K), Interior board λ = 0,21 W/(m·K) 12,5 mm
- Installation gap (closed air space) surfaces: ε = 0,9 and Eurothane EWall ε = 0,05
- Timber taken into account cc600 (frame and installation gap), timber λ = 0,12 W/(m·K)

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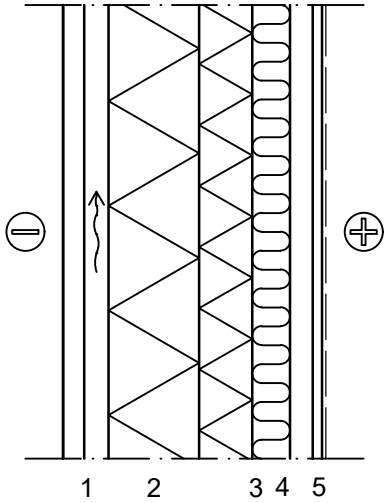
Wall structure with timber frame
Assembly drawing
Full-PIR solution
Thermal insulation: Recticel Eurothane EWall

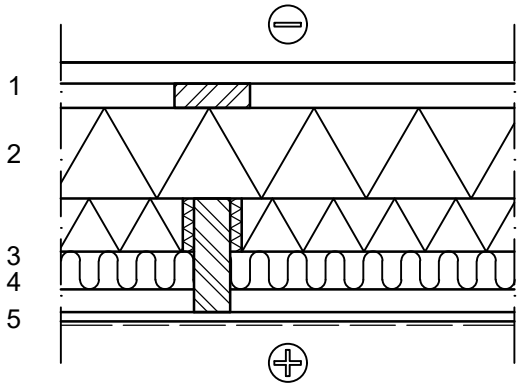
# WL003-0

DATE 15/11/2026

SCALE 1:10

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




LAYERS

1. Outer cladding and ventilation gap

2. Thermal insulation, continuous layer: Recticel Eurothane EWall (polyurethane insulation EN 13165)
   - Thermal conductivity: $\lambda_D$ = 0,022 W/(m·K)
   - Edge profile: Full tongue-and-groove
   - Joints sealed with PU foam and in addition optionally with diffusion open wind barrier tape from outside
   - Fastening to timber frame with mechanical fasteners

3. Timber frame with thermal insulation: Recticel Eurothane EWall
   - Joints sealed with PU foam

4. Installation gap battens, for eg. electrical installations
   - Can be filled with fiber insulation max 50 mm to improve the soundproofing

5. Interior board and surface finish

| ENERGY EFFICIENCY | INSULATION THICKNESSES | U-VALUE |
|---|---|---|
| High Energy Efficiency | Eurothane EWall 100 mm as continuous layer,<br>EWall 50 mm and fiber insulation 50 mm between frame | 0,12 W/(m$^2$·K) |
| High Energy Efficiency | Eurothane EWall 120 mm as continuous layer,<br>EWall 70 mm and fiber insulation 50 mm between frame | 0,10 W/(m$^2$·K) |

Thermal transmittance calculation input values:
- Calculations according to EN ISO 6946:2017
- Surface resistances: $R_{si}$ = 0,13 m$^2$·K/W, $R_{se}$ = 0,13 m$^2$·K/W
- Thermal conductivities: Eurothane EWall $\lambda_U$ = 0,022 W/(m·K), Fiber insulation $\lambda_U$ = 0,036 W/(m·K), Interior board λ = 0,21 W/(m·K) 12,5 mm
- Installation gap (closed air space) surfaces: ε = 0,9
- Timber taken into account cc600 (frame and installation gap), timber λ = 0,12 W/(m·K)

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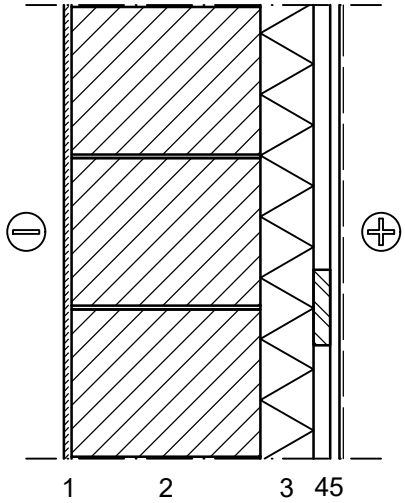
CONTENTS

Wall structure with lightweight aggregate concrete (LWAC) masonry work
Assembly drawing
PIR insulation on the inside of the load-bearing structure
Thermal insulation: Recticel Eurothane EWall

# WL004-0

DATE 15/11/2026 | SCALE 1:10

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




LAYERS

1. Outer cladding / finish, eg. rendering

2. Lightweight aggregate concrete (LWAC) masonry work

3. Thermal insulation, continuous layer: Recticel Eurothane EWall (polyurethane insulation EN 13165)
   - Thermal conductivity: $\lambda_D$ = 0,022 W/(m·K)
   - Edge profile: Full tongue-and-groove

   - Joints sealed with PU foam and / or with vapor barrier tape
   - Fastening to timber frame with mechanical fasteners

4. Installation gap battens, for eg. electrical installations

5. Interior surface finish

| ENERGY EFFICIENCY | INSULATION THICKNESSES | U-VALUE |
|---|---|---|
| Semi-warm | LWAC block 250 mm, Eurothane EWall 50 mm | 0,24 W/(m$^2$·K) |
| Warm | LWAC block 250 mm, Eurothane EWall 70 mm | 0,20 W/(m$^2$·K) |
| High Energy Efficiency | LWAC block 250 mm, Eurothane EWall 120 mm | 0,14 W/(m$^2$·K) |

Thermal transmittance calculation input values:
- Calculations according to EN ISO 6946:2017
- Surface resistances: $R_{si}$ = 0,13 m$^2$·K/W, $R_{se}$ = 0,04 m$^2$·K/W
- Thermal conductivities: Eurothane EWall $\lambda_U$ = 0,022 W/(m·K), LWAC block (including mortar joints, water content 4 %) λ = 0,21 W/(m·K), Interior board λ = 0,21 W/(m·K) 12,5 mm
- Installation gap (closed air space) surfaces: ε = 0,9 and Eurothane EWall ε = 0,05
- Timber taken into account cc600 (installation gap), timber λ = 0,12 W/(m·K)

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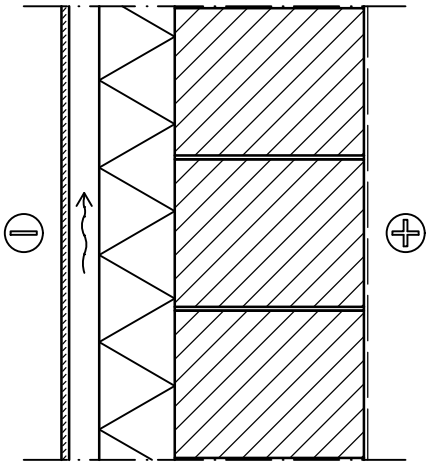
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Wall structure with lightweight aggregate concrete (LWAC) masonry work
Assembly drawing
PIR insulation on the outside of the load-bearing structure
Thermal insulation: Recticel Eurothane EWall

# WL005-0

DATE 15/11/2026 | SCALE 1:10

ADDITIONAL COUNTRY-SPECIFIC REQUIREMENTS MAY NEED TO BE APPLIED




LAYERS

1. Outer cladding and ventilation gap

2. Thermal insulation, continuous layer: Recticel Eurothane EWall (polyurethane insulation EN 13165)
   - Thermal conductivity: $\lambda_D$ = 0,022 W/(m·K)
   - Edge profile: Full tongue-and-groove
   - Joints sealed with PU foam
   - Fastening to timber frame with mechanical fasteners

3. Lightweight aggregate concrete (LWAC) masonry work

4. Interior surface finish

Designer checks the moisture performance and suitability of the build-up case by case according to the project specific details and climate conditions. Here are some preliminary guidelines of insulation / LWAC thicknesses that usually will work in most common cases:

- LWAC block 100 mm Eurothane EWall minimum thickness 40 mm
- LWAC block 150 mm Eurothane EWall minimum thickness 60 mm
- LWAC block 200 mm Eurothane EWall minimum thickness 70 mm
- LWAC block 250 mm Eurothane EWall minimum thickness 80 mm
- LWAC block 300 mm Eurothane EWall minimum thickness 100 mm

Solution is not suitable to be used as such with autoclaved aerated concrete (AAC) masonry work. Please contact to Recticel technical services for additional advice in case AAC is used.

| ENERGY EFFICIENCY | INSULATION THICKNESSES | U-VALUE |
|---|---|---|
| Semi-warm | LWAC block 200 mm, Eurothane EWall 70 mm | 0,23 W/(m$^2$·K) |
| Warm | LWAC block 250 mm, Eurothane EWall 100 mm | 0,17 W/(m$^2$·K) |
| High Energy Efficiency | LWAC block 250 mm, Eurothane EWall 150 mm | 0,12 W/(m$^2$·K) |

Thermal transmittance calculation input values:

- Calculations according to EN ISO 6946:2017
- Surface resistances: $R_{si}$ = 0,13 m$^2$·K/W, $R_{se}$ = 0,13 m$^2$·K/W
- Thermal conductivities: Eurothane EWall $\lambda_U$ = 0,022 W/(m·K), LWAC block (including mortar joints, water content 4 %) λ = 0,21 W/(m·K)
- Fastener correction factor $\Delta U_f$ calculated with Stainless Steel Ø4 mm 4 pcs/m$^2$

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