Daylight analysis
Evaluation of daylight parameters

Annual minimum illuminance
Percentage of occupied hours with at least 300 lux, measured at 0.85 meters above floor plate

Overlit and Underlit areas
- Overlit: over 1000 lux of direct light for more than 250 occupied hours per year
- Underlit: less than 300 lux for more than 50% of occupied hours

Daylight Factor
Amount of illumination available indoors to the illumination present outdoor under an overcast sky, measured at 0.85 m above floor plate

Average Daylight Factor:
- Fourth floor: 1.07%
- Fifth floor: 1.67%

*minimum DF factor for office spaces 1%
Plan 4th floor: CLT and steel beam structure
1:200

CLT - 7 layers - 260mm

HEB 355 - 260mm
Horizontal Section 4th floor - detail
1:10

XPS insulation
Frame band
Nail band
Hold-down bracket
Gips Band
Countersunk screw 8x300
Construction sealing

Angle bracket
Double thread screw 9x240
Monolithic membrane tape
Monolithic breathable film
Vapour check film
CLT - 5 layers - 100mm
Wood fibre insulation - 8 cm
Wood fibre insulation - 6 cm
Drywall screw 4.2x45
Total thread screw 5x80
Hidden fastener for façades
Plasterboard
Horizontal Section 5th floor - detail
1:200
Horizontal Section 5th floor - detail
1:200

CLT - 7 layers - 260mm
HEB 355 - 260mm
Horizontal Section 5th floor - detail
1:10

Construction sealing
Total thread cyl. head 7×100
Double hold-down bracket

Monolithic membrane tape
Monolithic membrane film
Nail band

Wood fibre insulation - 8 cm
Wood fibre insulation - 6 cm
CLT - 5 layers - 100 mm
Gips Band

Vapour check film
Drywall screw 4.2×45
Total thread screw 5×80
Plasterboard

Hidden fastener for façades

Double thread screw 9×240
Angle bracket

XPS insulation
Frame band
Horizontal Section 5th floor - detail
1:10

- Vapour check film
- Drywall screw 4.2x45
- Total thread screw 5x80
- Angle bracket

- Gips Band
- Plasterboard
- Total thread cyl. head 7x100
- Construction sealing
- Double hold down bracket
- Frame band
- XPS insulation

- Hidden fastener for façades
- Wood fibre insulation - 8 cm
- Wood fibre insulation - 6 cm
- CLT - 5 layers - 10 cm
- Monolithic membrane tape
- Monolithic membrane film
- Nail band
- Double thread screw 9x240
Section BB detail

1:10

Non-woven anti-root layer

Vapour check film

CLT - 7 layers - 260mm
Wood fibre insulation - 8 cm
Wood fibre insulation - 6 cm
Monolithic highly breathable film
Bituminous membrane
Double thread screw 9x320

Double thread screw 9x280
Angle bracket
Soundproofing profile
Countersunk screw 8x360
Hold-down bracket
Gips Band

Double thread screw 9x240
Plasterboard
Drywall screw 4.2x45
Total thread screw 5x80
Frame band

Monolithic breathable film
Monolithic membrane tape
Hidden fastener for façades
Section BB detail
1:5

- Non-woven anti-root layer
- Bituminous membrane
- Monolithic h. breathable film
- Double thread screw 9x320
- Angle bracket + washer
- Hold-down bracket
- Countersunk screw 8x360
- CLT - 7 layers - 260mm
- Vapour check film
- Gips Band
- Drywall screw 4.2x45
- Total thread screw 5x80
- Plasterboard

- Double thread screw 9x240
- Hidden fastener for façades
- Wood fibre insulation - 8 cm
- Wood fibre insulation - 6 cm
- Monolithic membrane tape
- Monolithic breathable film
- Double thread screw 9x280

- Soundproofing profile
Section CC detail
1:10

XPS insulation
Frame band

Vapour check film
Gips band
CLT - 5 layers - 100mm
Hidden fastener for façades

Drywall screw 4.2x45
Total thread screw 5x80
Plasterboard
Wood fibre insulation - 8 cm
Wood fibre insulation - 6 cm
Soundproofing strip
Double thread screw 9x240
Double hold-down bracket
Soundproofing underlay
Double thread screw 9x280
Countersunk screw 8x360
Monolithic breathable film
Monolithic membrane tape
Soundproofing profile

CLT - 7 layers - 260mm
Gips Band
Section CC detail

1:10

- Drywall screw 4.2x45
- Total thread screw 5x80
- Vapour check film
- Gips band
- CLT - 5 layers - 100mm
- Plasterboard
- Soundproofing strip
- Soundproofing profile
- Hold-down bracket + resin
- Soundproofing underlay
- Double thread screw 9x240
- Monolithic breathable film
- Monolithic membrane tape
- Double thread screw 9x280
- Wood fibre insulation - 8 cm
- Wood fibre insulation - 6 cm
- Hidden fastener for façades

>2%
Section CC detail

1:10

Frame band
CLT - 5 layers - 100mm
Drywall screw 4.2x45
Total thread screw 5x80
Double thread screw 9x280
Wood fibre insulation - 8 cm
Wood fibre insulation - 6 cm
Double thread screw 9x240
Vapour check film
Hidden fastener for façades
Gips band
Plasterboard
Soundproofing strip
Monolithic breathable film
Monolithic membrane tape
Soundproofing underlay
Soundproofing profile
Hold-down bracket + resin
Gips Band

>2%