De Wever - A Textile Community Lab

Material research and textile production laboratory with integrated residence

Set of Drawings | Lea Scholze
Accessible roof garden ZINCO ‘Urban Farming’

- Specific soil for grass & planting: >100 mm
- Stabiblock© SD 20: 200 mm
- Separation fleece geotextile TGV21: 25 mm
- Thermal insulation XPS: 100 mm
- Root resistant sealing foil: 20 mm
- Cross laminated wood case element: 235 mm
- LIGNO Rippe Q3 BV with cavity for installation or weight fill: 20 mm
- Additional board for fire stability: 25 mm
- Integrated acoustic absorber: 35 mm
- Acoustic strip profile: 35 mm
- Concrete beam: 20 cm

Total ceiling thickness: 750 mm
Total thickness: 1150 mm

Concrete Wall:
- Facade brick: 80 mm
- Lathing w = 50 mm: 50 mm
- Breather membrane: 0.1
- Rock wool facade insulation: 150 mm
- Concrete wall: 200 mm

Total thickness: 480 mm
U-Value: 0.215 W/m²K
Timber Wall:
- facade brick
- lattice w = 60 mm 50 mm
- hydrophobic MDF board 20 mm
- timber construction lumber w = 60 mm 150 mm
- insulation between the construction 150 mm
- CSB panel 20 mm
- lattice w = 60 mm 45 mm
- interior plaster board 12 mm
- Total thickness 430 mm

Interior Floor Lignotrend with acoustic strip profile:
- wood flooring 20 mm
- screed 50 mm
- Impact sound insulation 50 mm
- pressure distribution board 20 mm
- cross laminated wood case element 235 mm
- LIGNO Rippe Q3 BV with cavity for installation or weight fill
- additional board for fire stability 20 mm
- integrated acoustic absorber 25 mm
- Acoustic strip profile 35 mm
- Concrete beam 30 cm 300 mm
- Total ceiling thickness 420 mm
- Total thickness 720 mm

Detail 1:10 | Lignotrend ceiling with Zinco 'Urban Farming' roof connecting to timber wall
Concrete Wall:
- Facade brick: 80 mm
- Lathing w = 50 mm: 50 mm
- Breather membrane sd=0.1
- Rock wool facade insulation: 150 mm
- Concrete wall: 200 mm

Total thickness: 480 mm
U-value: 0.215 W/m²K

Interior Floor Lignotrend with acoustic strip profile:
- Wood flooring: 20 mm
- Screed: 50 mm
- Impact sound insulation: 20 mm
- Pressure distribution board: 20 mm
- Cross laminated wood case element: 235 mm
- LIGNO Rippel Q3 EV with cavity for installation or weight fill
- Additional board for fire stability: 20 mm
- Integrated acoustic absorber: 25 mm
- Acoustic strip profile: 35 mm
- Concrete beam 30 cm: 300 mm

Total ceiling thickness: 420 mm
Total thickness: 720 mm

Detail 1:10 | Exterior concrete wall with perforated brick facade connecting to lignotrend ceiling
Detail 1:10 | Metatherm vertical sliding window system in timber façade connecting to wood-concrete composite floor

Wood-Concrete Composite Floor

- Wood Flooring: 20 mm
- Heated screed: 75 mm
- Vapor barrier: sd > 200m
- Impact sound insulation: 30 mm
- Heat insulation EPS: 95 mm
- Concrete bond C25/C30: 100 mm
- Cross laminated timber element: 140 mm
- Total thickness: 460 mm

Window System Methermo XL

With DUCC Top 60 ZR ventilation.

This window system is vertically movable so that the upper part of the window can be moved downwards and thus creates an open terrace feeling with a balustrade created by the window.
Timber Wall:
- facade brick
- lathing w = 50 mm  
- hydrophobic MDF board  
- timber construction lumber w = 60 mm  
- insulation between the construction 150 mm  
- OSB panel 20 mm  
- lathing w = 60 mm  
- insulation between the construction 48 mm  
- interior plaster board 12 mm  
- Total thickness 430 mm

Window System Methermo XL
- with DUCO Top 60 ZR ventilation.
- This window system is vertically moveable so that the upper part of the window can be moved downwards and thus create an open terrace feeling with an balustrade created by the window.