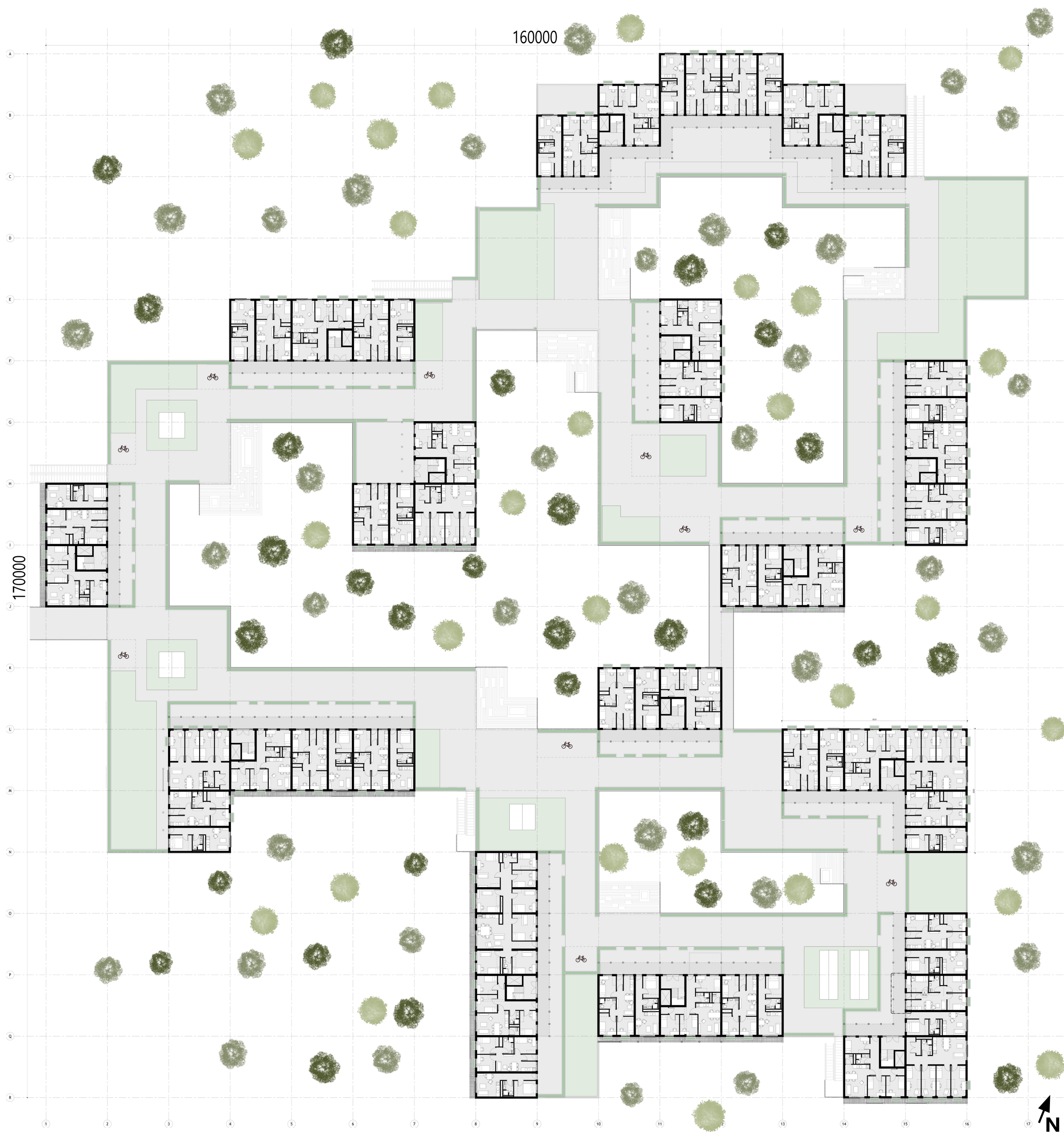


COLLEGE MAASLAND

STUDENT HOUSING IN AN EVER CHANGING LANDSCAPE



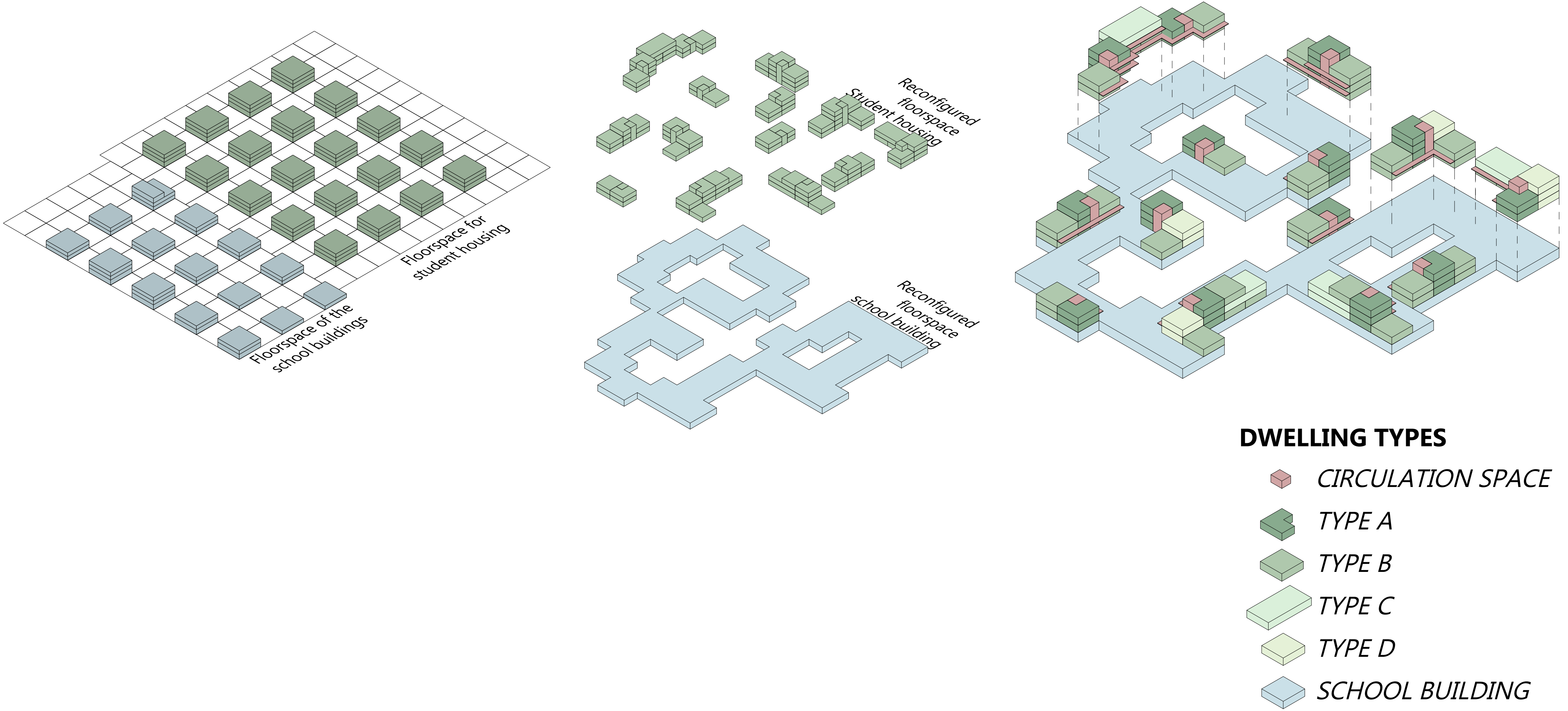


Wetland landscape



Flooded landscape

BUILDING CONFIGURATION

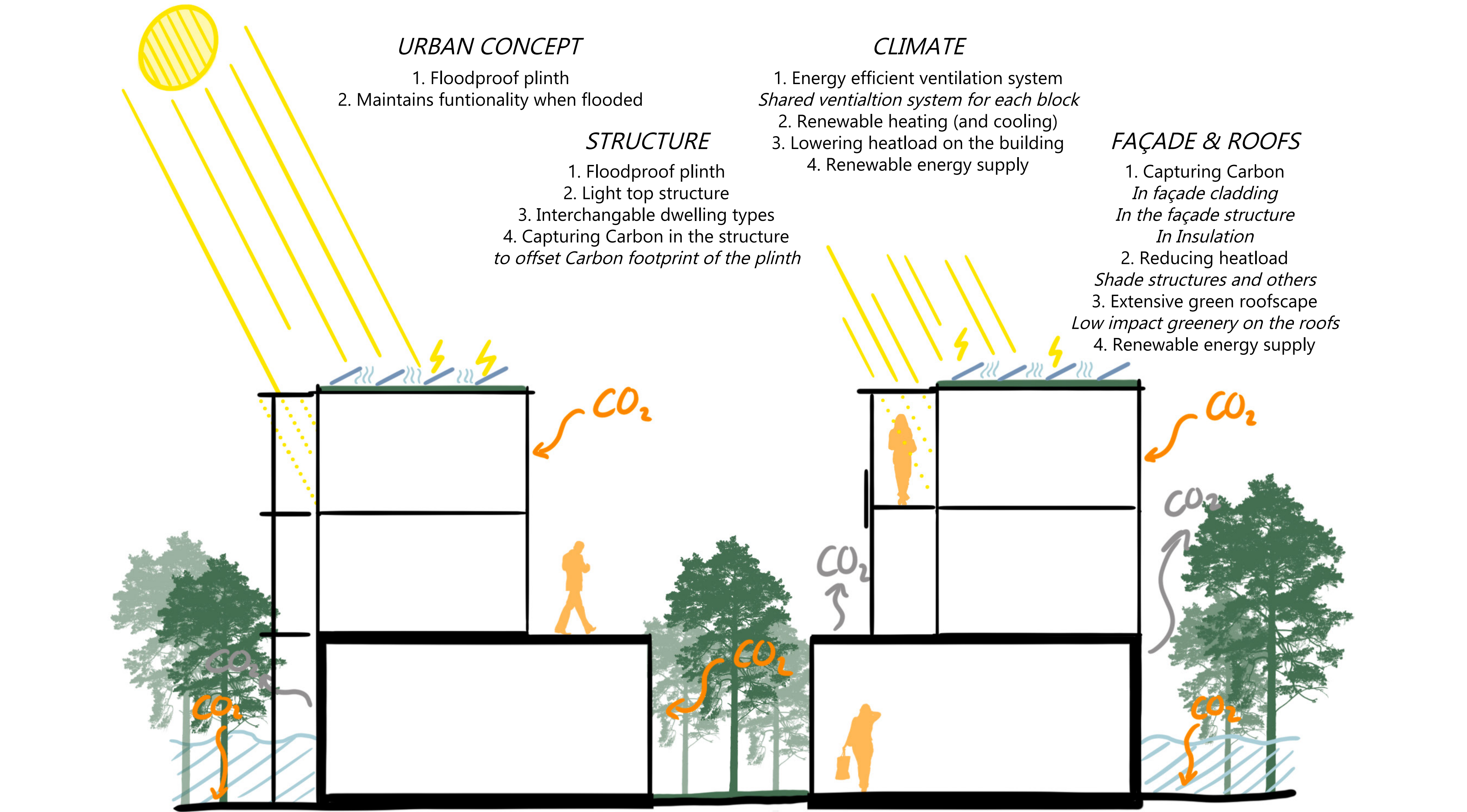


DWELLING FLOORPLANS 1:100

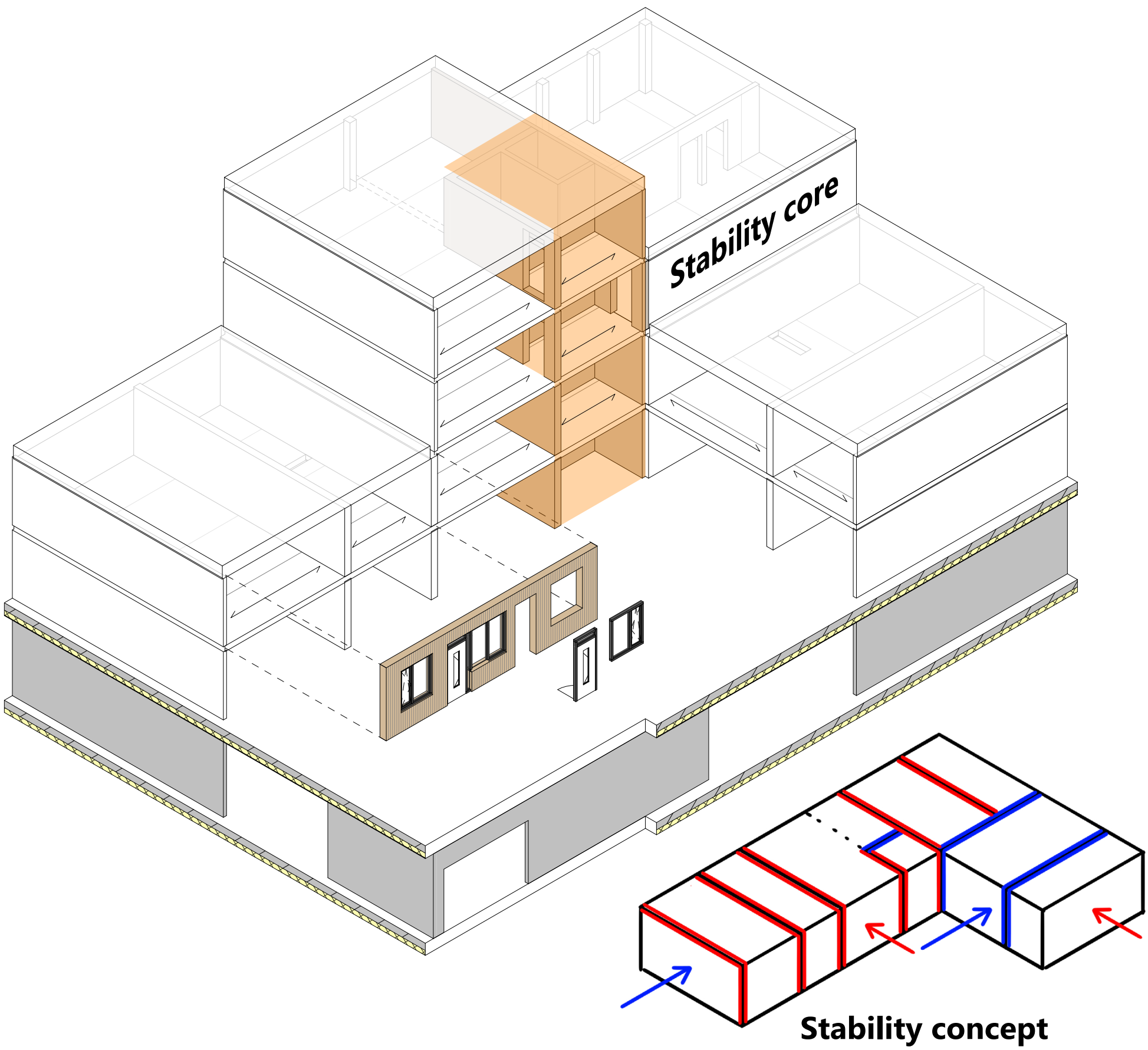


West elevation

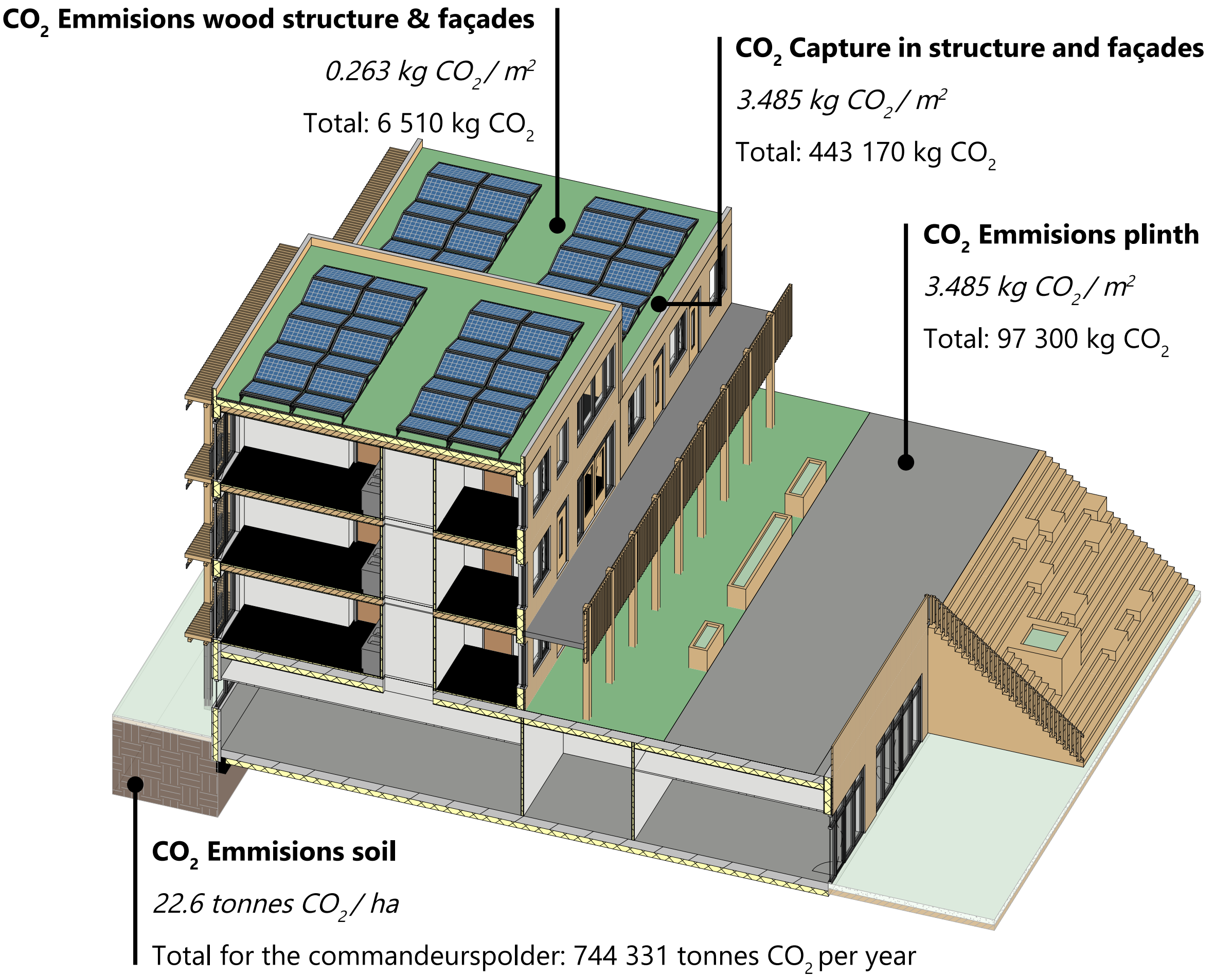
BUILDING TECHNOLOGY AMBITIONS



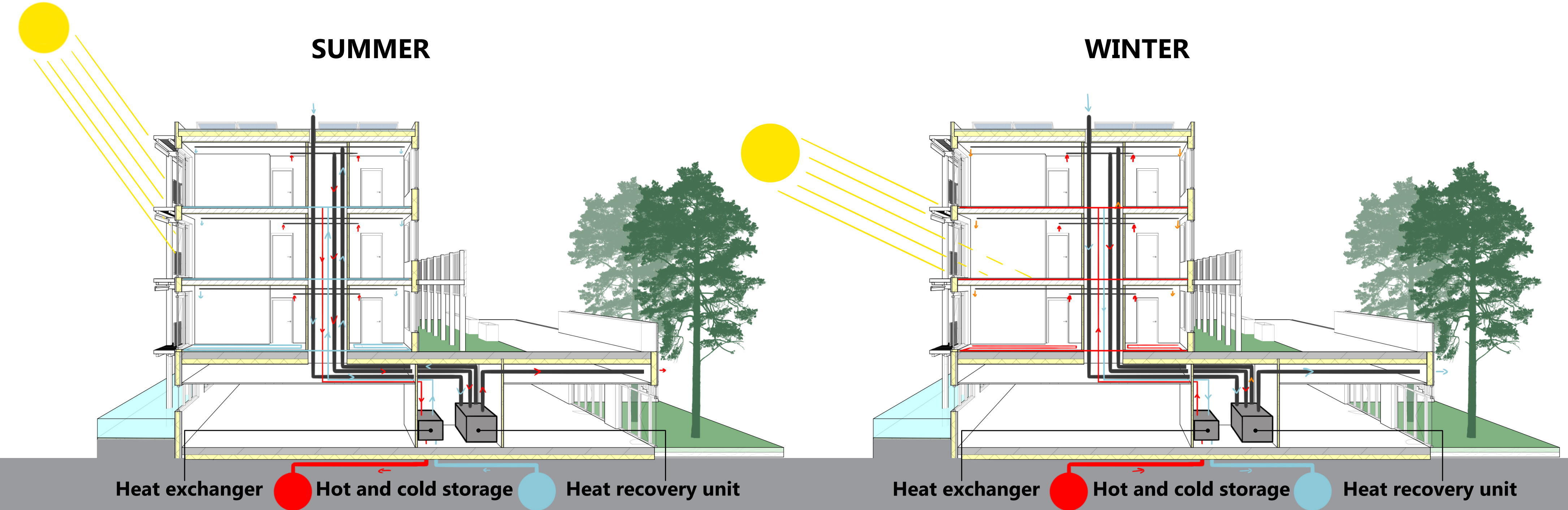
STRUCTURE & STABILITY

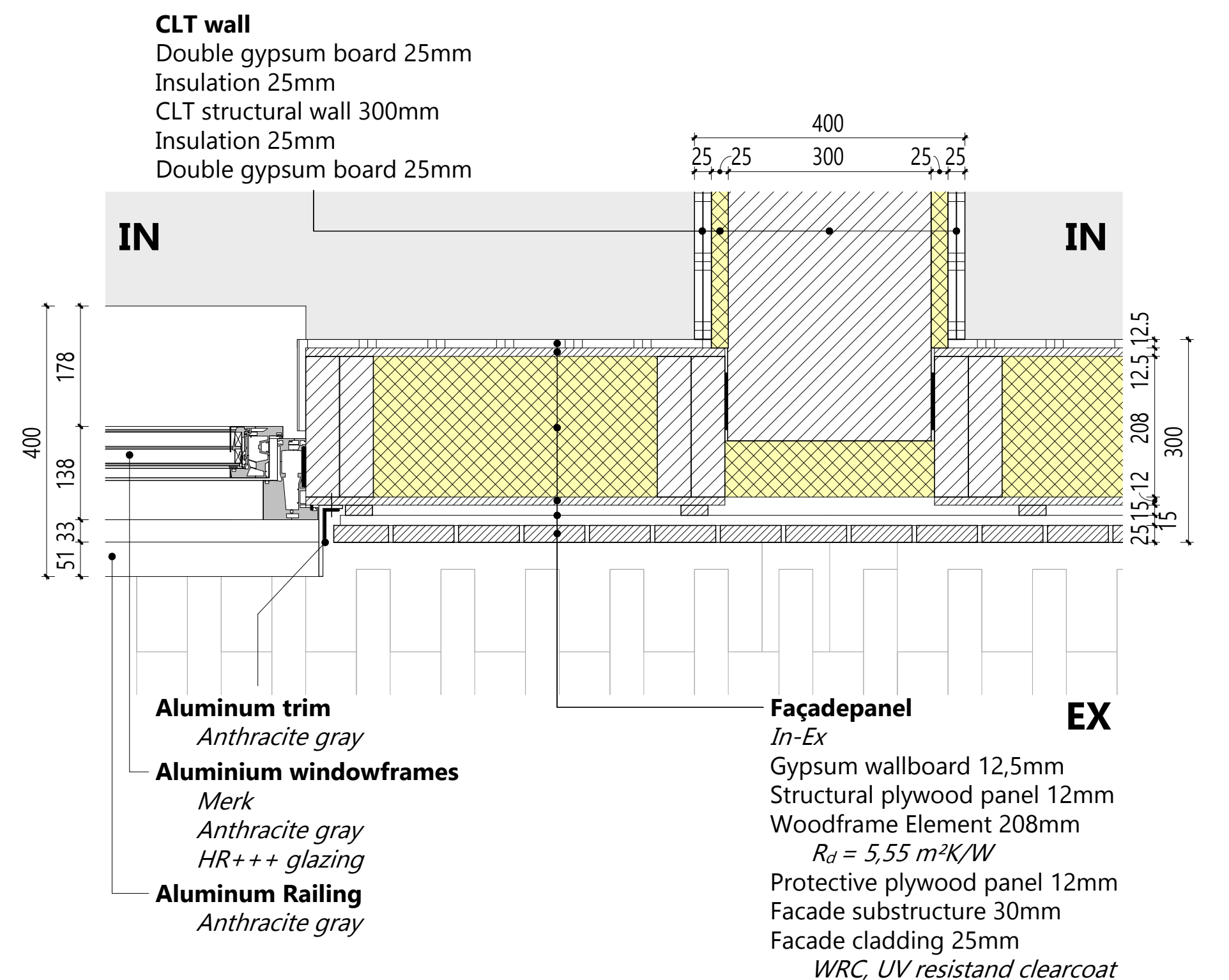
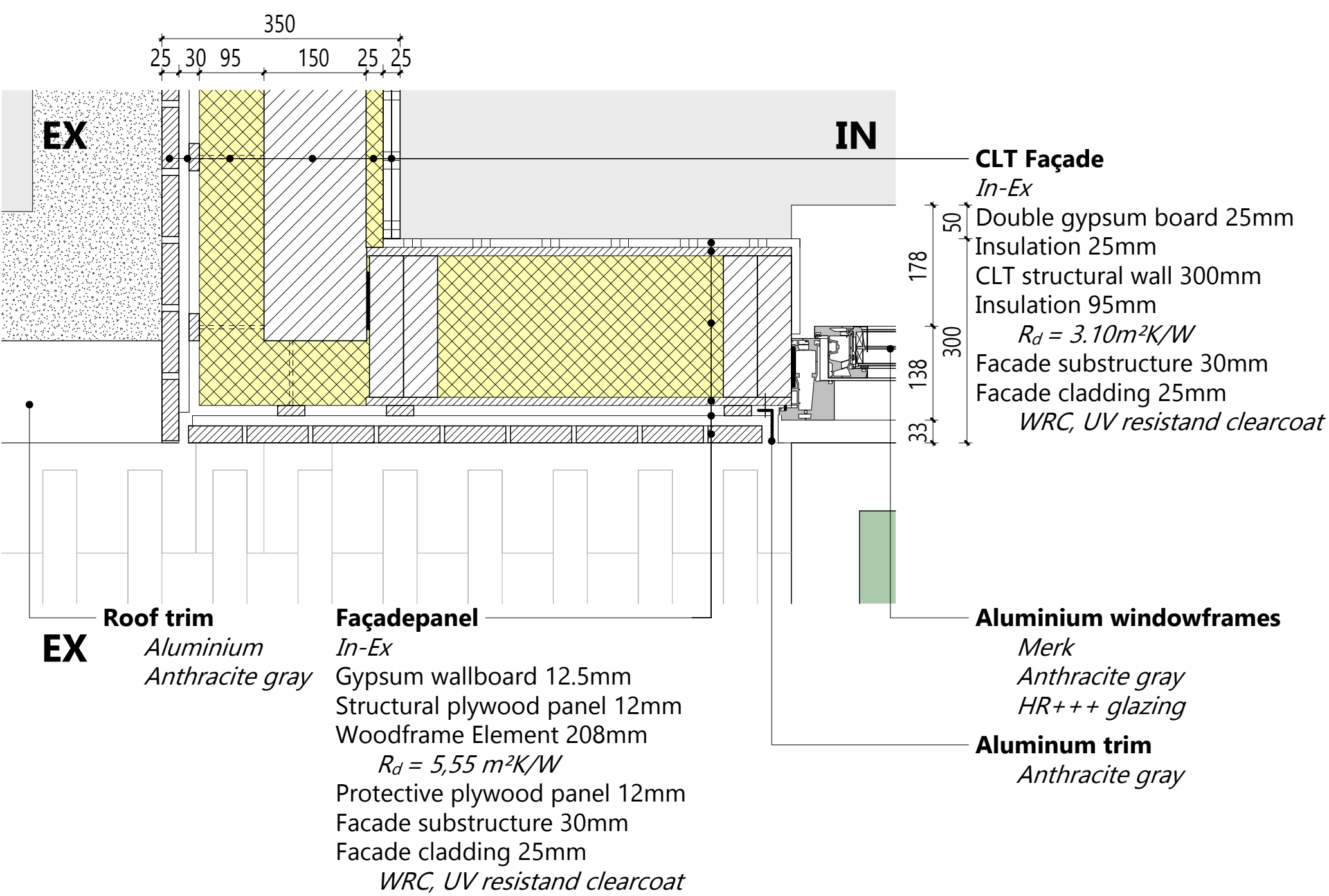
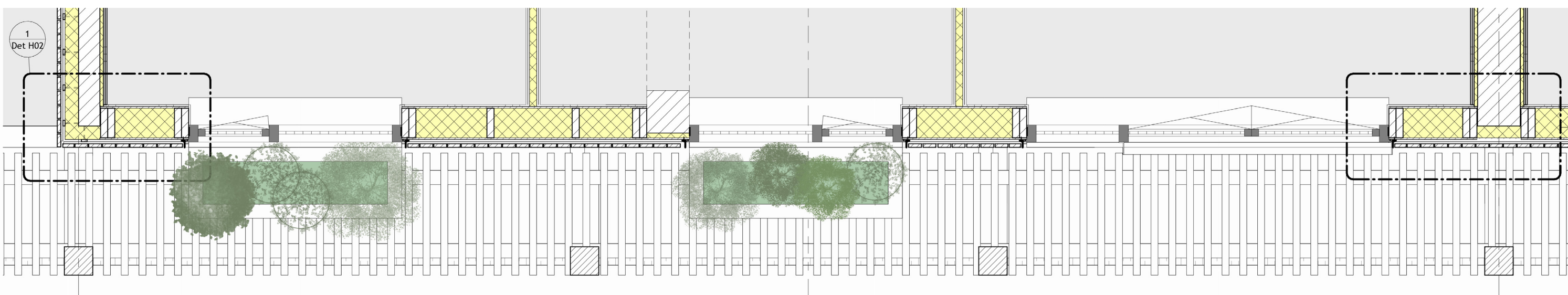
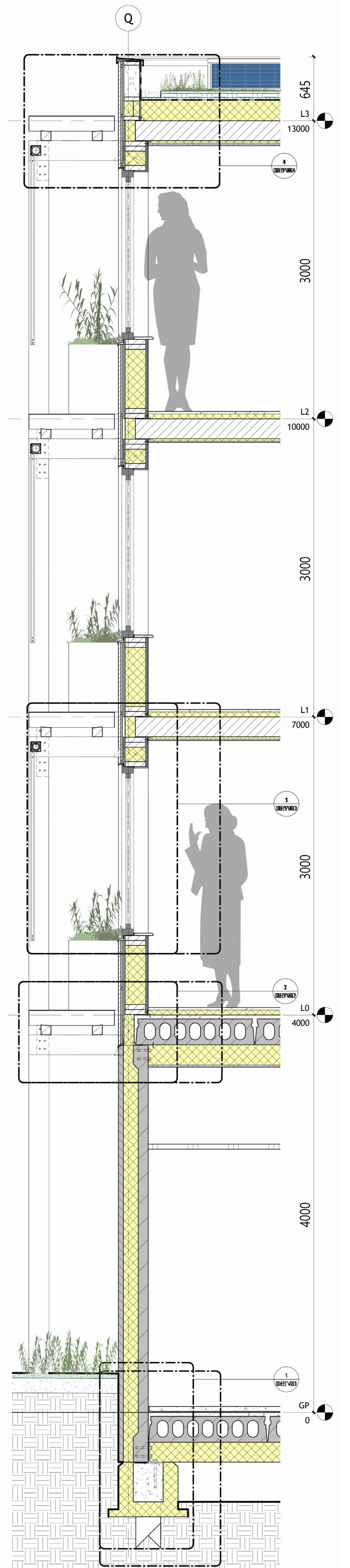


CARBON CAPTURE



CLIMATE SECTION





Roof trim

Aluminium
Anthracite gray

Shade structure

Top-Bottom
Wooden slats
WRC, UV resistand clearcoat
50x150x860mm (WxHxL)
Substructure
WRC, UV resistand clearcoat
100x100mm (WxH)
Column & beam structure
WRC, UV resistand clearcoat
200x200mm (WxH)

Steel bracket
for connecting shade
structure

Gusset plate

bolted

Shading screen

Merk

Colour

Aluminum sil

Anthracite gray

Aluminum trim

Anthracite gray

Aluminium windowframes

Merk

Anthracite gray

HR+++ glazing

Parapet

Right-Left

Woodframe element 170mm

Facade substructure 30mm

Facade cladding 25mm

WRC, UV resistand clearcoat

CLT floor

Top-Bottom
Sedum 35mm
Substrate 40mm
Water retention crates 25mm
ca. 22,5 l/m²
Waterproofing layer
Insulation 210mm
 $R_d = 6,10 \text{ m}^2\text{K/W}$
CLT structural floor 200mm
Insulation 25mm
Gypsum board 12,5mm

Façadepanel

In-Ex

Gypsum wallboard 12.5mm

Structural plywood panel 12mm

Woodframe Element 208mm

$R_c = 5,55 \text{ m}^2\text{K/W}$

Protective plywood panel 12mm

Facade substructure 30mm

Facade cladding 25mm

WRC, UV resistand clearcoat

Shade structure

Top-Bottom
Wooden slats
WRC, UV resistand clearcoat
44x145x860mm (WxHxL)
Center distance 123mm
Substructure
WRC, UV resistand clearcoat
100x100mm (WxH)
Column & beam structure
WRC, UV resistand clearcoat
200x200mm (WxH)

Shading screen

Merk

Colour

Steel bracket
for connecting shade
structure

Gusset plate

bolted

Aluminum trim

Anthracite gray

Aluminum sil

Anthracite gray

Steel bracket
for connecting shade
structure

Shade structure

Top-Bottom
Wooden slats
WRC, UV resistand clearcoat
44x145x860mm (WxHxL)
Center distance 123mm
Substructure
WRC, UV resistand clearcoat
100x100mm (WxH)
Column & beam structure
WRC, UV resistand clearcoat
200x200mm (WxH)

Gusset plate

bolted

Steelwork

Water protection

Anthracite gray

Prefab concrete column

Concrete

200x200mm (WxH)

Concrete façade element

In-Ex

Structural concrete shell 100mm

Insulation 150mm

$R_d = 5,55 \text{ m}^2\text{K/W}$

Exterior concrete shell 50mm

CLT floor

Top-Bottom
Top floor 25mm
Ridget insulation 50mm
CLT structural floor 200mm
Insulation 25mm
Gypsum board 12,5mm

Aluminium windowframes

Merk

Anthracite gray

HR+++ glazing

Façadepanel

In-Ex

Gypsum wallboard 12,5mm

Structural plywood panel

Woodframe Element 200mm

$R_c = 5,55 \text{ m}^2\text{K/W}$

Protective plywood panel

Planter

Façadepanel

In-Ex

Gypsum wallboard 12.5mm

Structural plywood panel

Woodframe Element 200mm

$R_c = 5,55 \text{ m}^2\text{K/W}$

Protective plywood panel

Planter

Plinth floor

Top-Bottom
Dwelling top floor 75mm
Concrete topping 40mm
Hollow core floor 260mm
Insulation 200mm
Double gypsum board 25mm

Concrete façade element

In-Ex

Structural concrete shell 100mm

Insulation 150mm

$R_d = 5,55 \text{ m}^2\text{K/W}$

Exterior concrete shell 50mm

Plinth floor

Top-Bottom
Top floor 60 mm
Concrete topping 40mm
Hollow core floor 260mm
Insulation 200mm

Façade element anchor

Anglebracket

Bolted to concrete

Shim stack

Foundation

Right-Left

EPS foundation cast 150mm

Foundation beam 600mm