D.XXX Detail overview

Revitalisation with adaptable dwellings in A'dam Nieuw-West
Jelle Grunstra, 4163834 - MSc. Arch: Architectural Engineering
10MM Building board, finish layer
100MM Inner wall, hemp panel insulated
([Thermo Hennep Combi Jute])
20MM Clearance cavity
Vapour barrier, foil
175MM Hemp panel insulation
([Thermo Hennep Combi Jute])
Water dam, foil
35MM Clearance cavity
Heavily ventilated
50MM Concrete facade panels
Prefab, 615x365MM

R_1 = 10.05 m²K/W

Suspended connection, acoustic separation

Gravel against water splash

D.A01 Outer facade, foundation

Revitalisation with adaptable dwellings in A'dam Nieuw West
Jelle Grunstra, 4163834 - MSc. Arch: Architectural Engineering
10MM Building board, finish layer
100MM Inner wall, hemp panel insulated [Thermo Hennep Combi Jute]
20MM Clearance cavity
Vapour barrier, foil
175MM Hemp panel insulation [Thermo Hennep Combi Jute]
Water dam, foil
35MM Clearance cavity
Heavily ventilated
50MM Concrete facade panels Prefab, 615x365MM

Ventilation grate
DucoFit 50, U = 3.11 W/m²K
Wooden window frame, 90x80MM / 78x78MM
Passive, Uₜₐₕ = 0.79 W/m²K
"Overbeek, Passiekozijn EHP"
Triple glazing, 42MM t
U = 0.6 W/m²K
Nissink; 4MM Glazing, 15MM Argon cavity

Rₐ = 10.05 m²K/W

D.A02 Outer facade, window

Revitalisation with adaptable dwellings in A'Dam Nieuw West
Jelle Grunstra, 4163834 - MSc, Archi Architectural Engineering
10MM Building board, finish layer
65MM Inner wall, hemp panel insulated
(Thermo Hennep Combi Jute)
20MM Clearance cavity
Vapour barrier, foil
175MM Hemp panel insulation
(Thermo Hennep Combi Jute)
Water dam, foil
35MM Clearance cavity
Heavily ventilated
50MM Concrete facade panels
Prefab, 815x365MM

12MM Building board, finish layer
65MM Acoustic insulation
Steel floor beam + 30MM wood joist

Vapour barrier, foil
100MM Insulation, flexible
Steel U-profile, existing
200x50MM, cold bend

Sprung suspended ceiling

R_i = 0.05 m²K/W

Dry floor finish
integrated low temp. floor heating
18MM Underlayment
Floor dampening, sound reduction
Leveling layer

D.A03 Outer facade, floor

Revitalisation with adaptable dwellings in A'dam Nieuw West
Jelle Grunstra, 4163834 - MSc, Arch Architectural Engineering
10MM Building board, finish layer
100MM Inner wall, hemp panel insulated 
[Thermo Hennep Combi Jute]
20MM Clearance cavity
Vapour barrier, foil
175MM Hemp panel insulation
[Thermo Hennep Combi Jute]
Water dam, foil
35MM Clearance cavity
Heavily ventilated
30MM Plywood facade panels
Prefab, 615x365MM

R_0 = 10.05 m²K/W

Acoustic separation

Ventilation grate
DucoFit 50, U = 3.11 W/m²K
Wooden window frame, 90x80MM / 78x78MM
"Overbeek, Passiefkozijn EHP"
Triple glazing, 42MM
U = 0.6 W/m²K
Nissink; 4MM Glazing, 15MM Argon cavity

D.A06 Inner facade, window

Revitalisation with adaptable dwellings in A'dam Nieuw West
Jelle Grunstra, 4163834 - MSc, Arch Architectural Engineering
12MM Building board, finish layer
20MM Clearance cavity
Vapour barrier, foil
125MM Hemp panel insulation
[Thermo Hennep Comb Jute]
Water dam, foil
35MM Clearance cavity
Heavily ventilated
30MM Plywood facade panels
Prefab, 615x365MM

10MM Building board, finish layer
100MM Inner wall, hemp panel insulated
[Thermo Hennep Comb Jute]

Rc = 10.05 m²K/W

100MM Inner wall, hemp panel insulated
[Thermo Hennep Comb Jute]

Dry floor finish
Integrated low temp. floor heating
18MM Underlayment
Floor dampening, sound reduction
Leveling layer

12MM Building board, finish layer
65MM Acoustic insulation
Steel floor beam + 30MM wood joist

Suspended connection, acoustic separation

Spring suspended ceiling
D.A08 Inner facade, roof edge

18MM Wood finish layer, original
70+128MM Hemp panel insulation
[Thermo Hennep Combi Jute]
Vapour barrier, foil
Steel floor beam + 30MM wood joint
65MM Acoustic insulation
12MM Building board, finish layer

100MM Insulation, flexible
Steel U-profile, existing
200x50MM, cold bend

10MM Building board, finish layer
65MM Inner wall, hemp panel insulated
[Thermo Hennep Combi Jute]
20MM Clearance cavity
Vapour barrier, foil
175MM Hemp panel insulation
[Thermo Hennep Combi Jute]
Water dam, foil
35MM Clearance cavity
Heavily ventilated
30MM Plywood facade panels
Prefab, 615x365MM

Rc = 10.98 m²K/W

Rainwater discharge, Ø 80MM
Extension of construction ventilation

Spring suspended ceiling

L&S A3
Revitalisation with adaptable dwellings in Kilek House West
Jelle Grunstra, 4163834 - MSc. Arch. Architectural Engineering
10MM Building board, finish layer
100MM Inner wall, hemp panel insulated
[Thermo Hennep Combi Jute]
20MM Clearance cavity
Vapour barrier, foil
175MM Hemp panel insulation
[Thermo Hennep Combi Jute]
Water dam, foil
35MM Clearance cavity
Heavily ventilated
50MM Concrete facade panels
Prefab, 615x365MM

106 391.5 123 391.5 106

$R_c = 10.05 \text{m}^2\text{K}/\text{W}$

Triple glazing, 42MM
$U = 0.6 \text{W/m}^2\text{K}$
Nissink; 4MM Glazing, 15MM Argon cavity
Wooden window frame, 90x80MM / 78x78MM
Passive, $U_{w,avg} = 0.79 \text{W/m}^2\text{K}$
"Overbeek, Passiefkozijn EHP"

D.A09 Outer facade, window [plan]
10MM Building board, finish layer
100MM Inner wall, hemp panel insulated
[Thermo Hennep Combi Jute]
20MM Clearance cavity
Vapour barrier, foil
175MM Hemp panel insulation
[Thermo Hennep Combi Jute]
Water dam, foil
20MM Clearance cavity
Heavily ventilated
50MM Concrete facade panels
Prefab, 615x365MM

12MM Plywood, lacquered
50MM PIR Insulation
18MM Plywood
Water dam, foil
12MM Plywood, lacquered

R = 10.05 m²K/W
Rc = 10.28 m²K/W

Waterproof fabric, tensioned
Water dam, foil
18MM Plywood
20MM Vacuum insulation
Kingspan Optim-R, 0.007 W/mK
180MM Hemp panel insulation
[Thermo Hennep Combi Jute]Vapour barrier, foil
Vapour barrier, foil
18MM Plywood
matte plastic finished

Rubber seal, tube, ∅ 40MM
Rubber seal, tube, ∅ 40MM
Hemp insulation
Thermo Hennep Combi Jute, 0.025 W/mK
Rubber seal, strip

D.A12-3 Module facade, corner
Jelle Grunstra, 4163834 - MSc. Arch: Architectural Engineering
D.A14 Existing, module ground floor

Reintegration with adaptable dwellings in A'dam Nieuw West
Jelle Grunstra, 4163834 - MSc. Arch. Architectural Engineering

Leveling layer
50MM Vacuum insulation
Kingspan Optim-R, 0.007 W/mK
Vapour barrier, foil
18MM Underlayment
Separation foil
Dry floor finish
Integrated low temp. floor heating
Floor covering

100MM Concrete floor, original
100MM Support construction
Water dam, foil
38x38MM Spacer lattice work
100MM Rigid insulation, glued

Floor covering
10MM Floor heating covering
18MM Floor heating underlayment
18MM Plywood
180MM Hemp panel insulation
Therm Hennep Combi Jute
Vapour barrier, foil
20MM Vacuum insulation
Kingspan Optim-R, 0.007 W/mK
Water dam, foil

100MM Concrete foundation, existing
38x38MM Spacer lattice work
100MM Rigid insulation, glued

Rubber seal, strip
Rubber seal, tube, Ø 40MM
Rubber seal, tube, Ø 40MM

L-profile 200x200MM
Expansion joint

Expansion joint

100MM Support construction
Water dam, foil
38x38MM Spacer lattice work
100MM Waterproof panel, screwed

+0050 MM

-0400 MM
18MM Wood finish layer, original 70+128MM Hemp panel insulation [Thermo Hennep Combi Jute] Vapour barrier, foil Steel floor beam + 38MM wood joist 60MM Acoustic insulation 12MM Building board, finish layer

- 18MM Plywood matte plastic finished Vapour barrier, foil
- 18MM Hemp panel insulation [Thermo Hennep Combi Jute] Vapour barrier, foil
- 20MM Vacuum insulation Kingspan Optim-R, 0.007 W/mK
- 18MM Plywood Water dam, foil Waterproof fabric, tensioned
18MM Plywood
Matte plastic finished
Vapour barrier, foil
Hemp panel insulation
Thermo Hennep Combi Jute
Vapour barrier, foil
Vacuum insulation
Kingspan Optim-R, 0.007 W/mK
Water dam, foil

Floor covering
10MM Floor heating covering
18MM Floor heating underlayment
18MM Plywood
180MM Hemp panel insulation

Rubber seal, strip
Rubber seal, tube, Ø 40MM

Triple glazing, 42MM
U ≥ 0.6 W/m²K
Nissink: 4MM Glazing, 15MM Argon cavity
Wooden window frame, 90x80MM / 78x78MM Passive, Uw,avg ≥ 0.79 W/m²K
"Overbeek, Passiefkozijn EHP"

"Revitalisation with adaptable dwellings in A'dam Noord West"

Jelle Grunstra, 4163834 - MSc Arch Architectural Engineering
18MM Plywood, matte plastic finish
60MM Vacuum insulation
Kingspan Optim-R, 0.007 W/mK
18MM Plywood, matte plastic finish

18MM Plywood
100MM Hemp panel insulation
[Thermo Hennep Combi Jute]
18MM Plywood
matte plastic finish
Rubber seal, tube, Ø18MM
Rubber seal, tube, Ø22MM
Rubber seal, strip
main barrier, water dam

\[ R_L = 7.37 \, \text{m}^2\text{K}/\text{W} \]

\[ R_L = 8.80 \, \text{m}^2\text{K}/\text{W} \]
18MM Plywood, matte plastic finish
100MM Hemp panel insulation (Thermo Hennep Combi Jute)
18MM Plywood, matte plastic finish
Rubber seal, tube, Ø18MM
Rubber seal, strip, tapered
(Detail D.A21.A)
Rubber seal, strip, main barrier, water dam

18MM Plywood, matte plastic finish
60MM Vacuum insulation
Kingspan Optim-R, 0.007 W/mK
18MM Plywood, matte plastic finish

D.A21.A: MODULE BONUS CON.

D.A21-22 Module connection, l/r

Revitalisation with adaptable dwellings in K1-kAce Nieuw West
Jelle Grunstra, 4163834 - MSc. Arch. Architectural Engineering
Rubber padding

D.C02-3 Column connection, rail
Revitalisation with adaptable dwellings in A'dam Nieuw West
Jelle Grunstra, 4163834 - MSc. Arch. Architectural Engineering