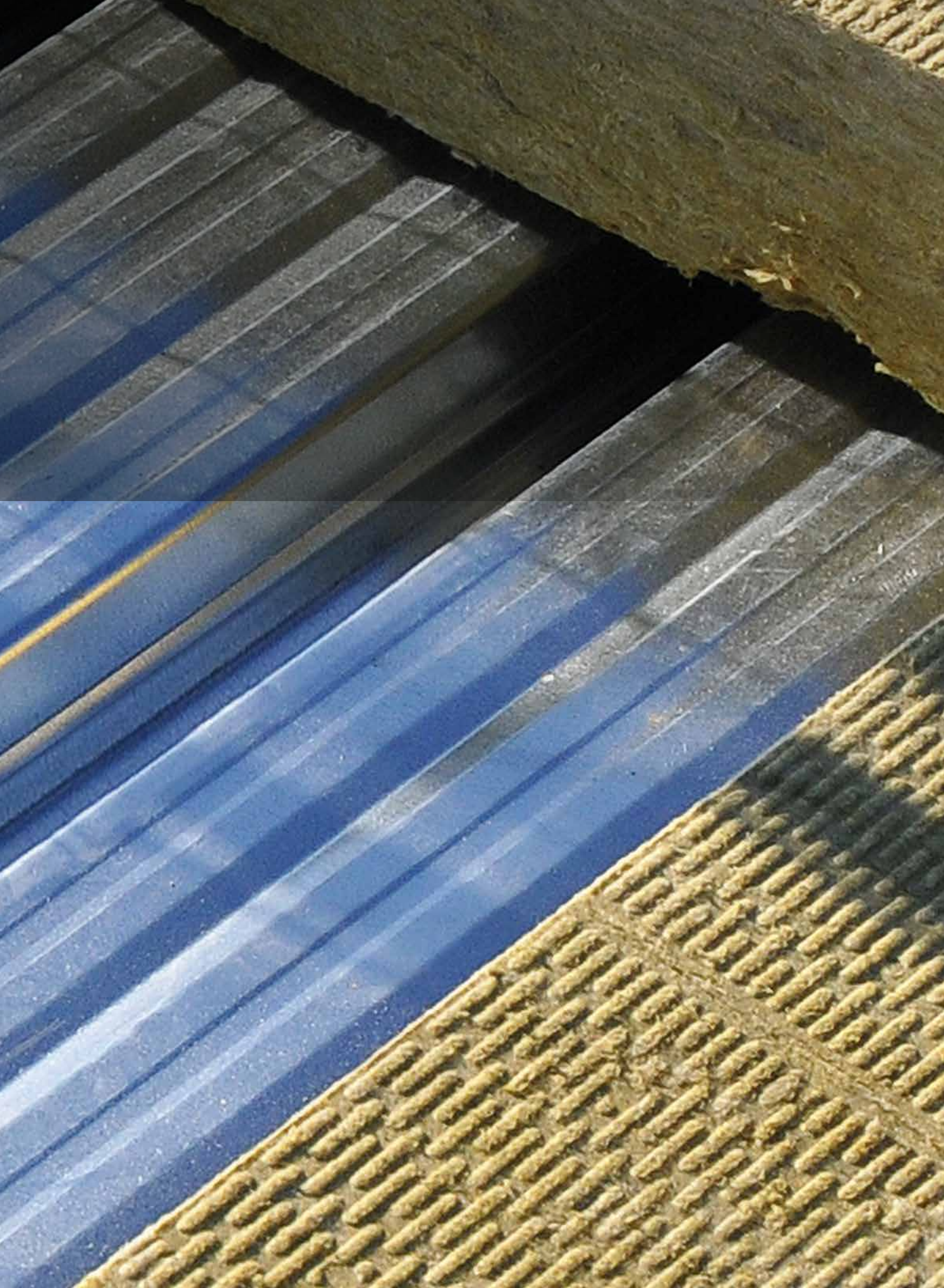


STEELDECKS

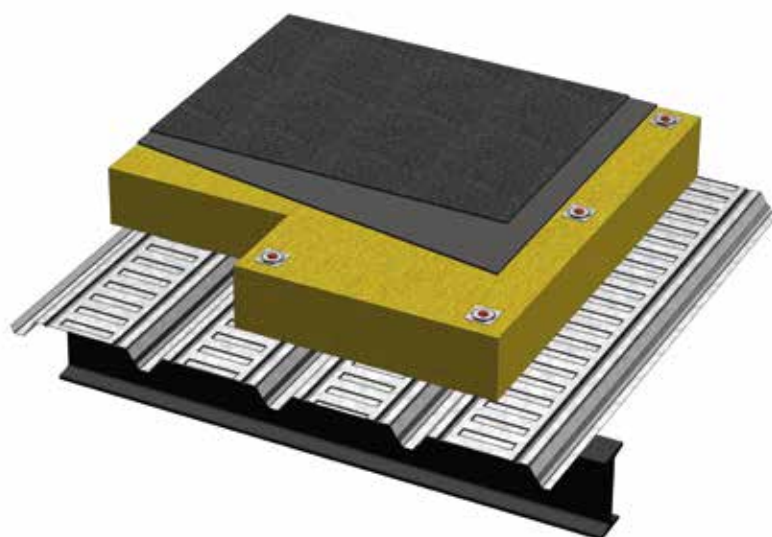
THERMAL SOLUTIONS FOR ROOFING



WATERPROOF ROOFING

GLASS WOOL PANEL WATERPROOF ROOFING SYSTEM

- Alteo support ^(a) ^(b),
- Glass wool panels ($\lambda = 0.038 \text{ W/m.K max.}$)
- Attachments $\varnothing 4.8 \text{ mm}$ (density: 5 attachments/m²)
- Waterproof layer



$U_p \text{ (W/m}^2\text{.K)}$	0.34	0.30	0.28	0.25	0.22	0.20	0.18	0.15	0.12
$R_p \text{ (m}^2\text{.K/W)}$	2.8	3.2	3.4	3.9	4.4	4.9	5.4	6.5	8.2
total thickness of insulation without thermal breaker (mm)	120mm	140mm	150mm	170mm	190mm	220mm	240mm	300mm	400mm
total thickness of insulation with thermal breaker (mm)	110mm	120mm	130mm	150mm	170mm	190mm	220mm	240mm	300mm
reference	T.34.LV	T.30.LV	T.28.LV	T.25.LV	T.22.LV	T.20.LV	T.18.LV	T.15.LV	T.12.LV

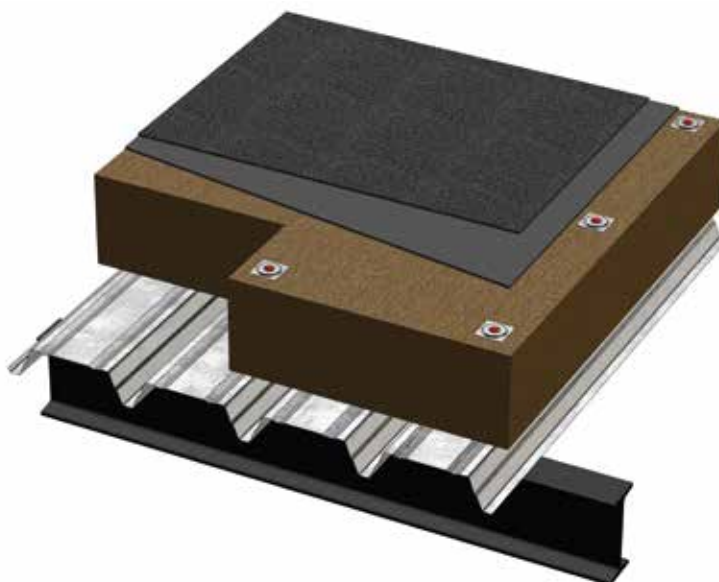
(a) Min. thickness 0.75 mm, subject to mechanical verification

(b) In the case of perforated or punctured profiles, a vapour barrier film will be used

WATERPROOF ROOFING

MINERAL WOOL PANEL WATERPROOF ROOFING SYSTEM

- **Altéo Support**^{(a) (b)}
- Mineral wool panels ($\lambda = 0.036 \text{ W/m.K max}$)
- Attachments $\varnothing 4.8 \text{ mm}$ (density: 5 attachments/m²)
- Waterproof layer



U_p (W/m ² .K)	0.34	0.30	0.28	0.25	0.22	0.20	0.18	0.15	0.12
R_p (m ² .K/W)	2.8	3.2	3.4	3.9	4.4	4.9	5.4	6.5	8.2
total thickness of insulation without thermal breaker (mm)	110mm	130mm	140mm	160mm	180mm	220mm	230mm	290mm	380mm
total thickness of insulation with thermal breaker (mm)	100mm	120mm	130mm	140mm	160mm	180mm	190mm	230mm	290mm
reference	T.34.LR	T.30.LR	T.28.LR	T.25.LR	T.22.LR	T.20.LR	T.18.LR	T.15.LR	T.12.LR

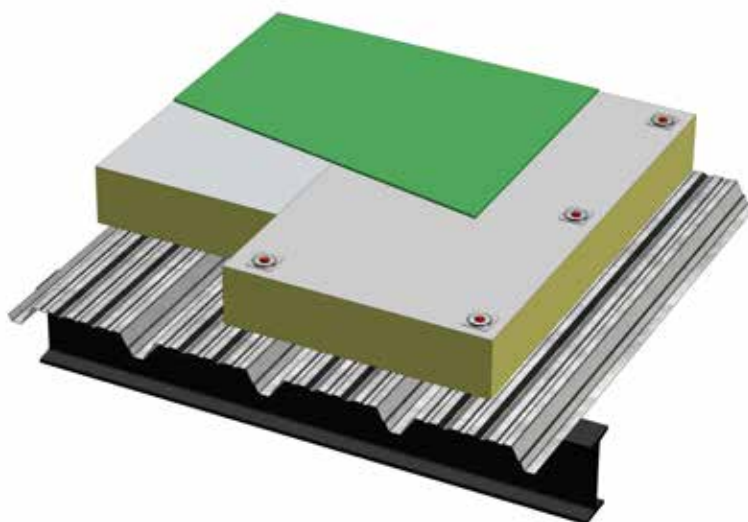
(a) Min. thickness 0.75 mm, subject to mechanical verification

(b) In the case of perforated profiles, a vapour barrier film will be used under the insulation or between the insulation layers

WATERPROOF ROOFING SYSTEM

POLYURETHANE FOAM WATERPROOF ROOFING SYSTEM

- Alteo support ^{(a) (b)}
- Polyurethane foam panels ($\lambda = 0.025 \text{ W/m.K max.}$)
- 4.8 mm attachment (density: 5 attachments/m²)
- Waterproof layer



$U_p \text{ (W/m}^2\text{.K)}$	0.34	0.30	0.28	0.25	0.22	0.20	0.18	0.15	0.12
$R_p \text{ (m}^2\text{.K/W)}$	2.8	3.2	3.4	3.9	4.4	4.9	5.4	6.5	8.2
total thickness of insulation without thermal breaker (mm)	80mm	90mm	100mm	110mm	130mm	140mm	160mm	200mm	260mm
total thickness of insulation with thermal breaker (mm)	70mm	80mm	90mm	100mm	110mm	120mm	140mm	160mm	200mm
reference	T.34.PU	T.30.PU	T.28.PU	T.25.PU	T.22.PU	T.20.PU	T.18.PU	T.15.PU	T.12.PU

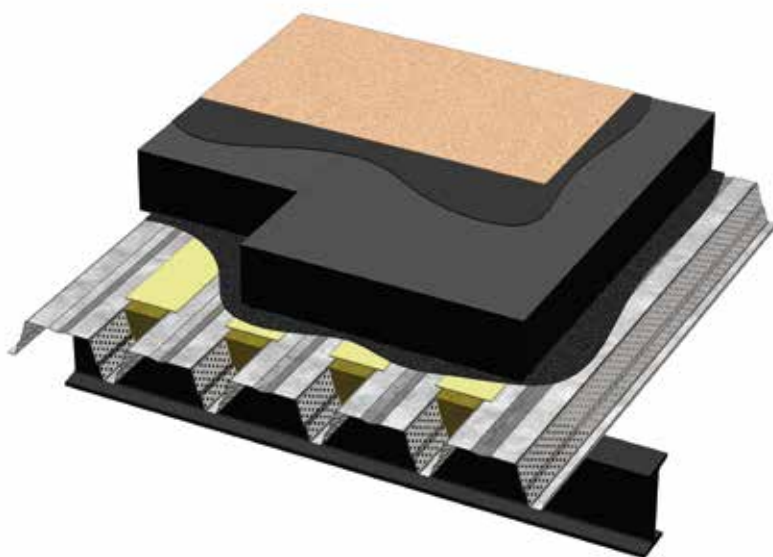
(a) Min. thickness 0.75 mm, subject to mechanical verification

(b) In the case of perforated or punctured profiles, a vapour barrier film will be used

WATERPROOF ROOFING SYSTEM

AQUALTEO WATERPROOF ROOFING SYSTEM

- Alteo support ^(a) ^(b)
- Cellular glass panels ($\lambda = 0.042 \text{ W/m.K max.}$)
- Waterproof layer

AQUALTEO SYSTEM FOR HIGH AND VERY HIGH HUMIDITY ROOFING (UNDER ETN CERTIFICATION)

U_p (W/m ² .K)	0.40	0.29	0.25	0.20	0.15	0.12
R_p (m ² .K/W)	2.4	3.3	3.9	4.9	6.5	8.2
total insulation thickness (mm)	100mm	140mm	160mm	200mm	280mm	340mm
reference	T.40.VCL	T.29.VCL	T.25.VCL	T.20.VCL	T.15.VCL	T.12.VCL

(a) Min. thickness 0.75 mm, subject to mechanical verification

(b) In the case of perforated profiles, a vapour barrier film will be used under the insulation or between the insulation layers

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