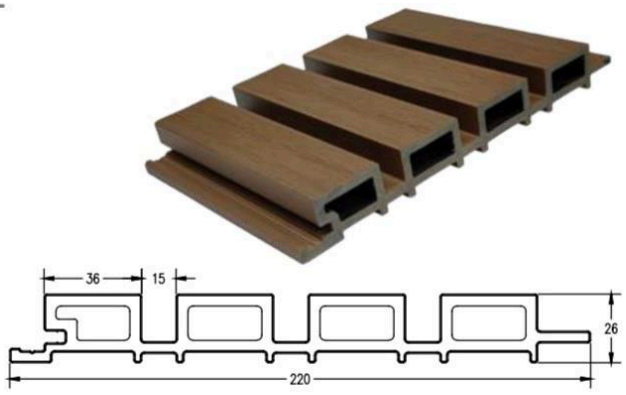
TECHNICAL FEATURES



SKIN W 36x15x220

DENSITY EN ISO 1183-1 (g/cm3)	1.41
WEIGHT (Kg/ml)	2.94 (+/- 5%)
APPEARANCE CLAUSE 6.1 of EN 15534-1:2014 Legth of specimen: 1000mm	No visible colour difference
PENDULUM TEST CLAUSE 6.4.2 of EN 15534-1:2014 and CEN/TS 15676:2007 Requirements of EN 15534-4:2014 Pendulum value ↗ 36	Pendulum value of face surface: Length direction: 62 Width direction: 72
FALLING MASS IMPACT RESISTANCE CLAUSE 7.1.2.1 of EN 15534-1:2014 and CEN/TS 15676:2007 Requirements of EN 15534-4:2014 Hollow profiles: None of 10 test specimens shall show a failure with a crack lenght ↗ 10mm or a depth of residual indentation ↗ 0,5mm. In case of failure, 10 additional test specimens shall be tested and no failure with a crack length ↗ 10mm or a depth of residual indentantion ↗ 0,5mm shall occur.	None of 10 test specimens showed a crack on face surface. Maximum depth of residual indentation: 0.13mm

FLEXURAL PROPERTIES CLAUSE 7.3.2 of EN 15534-1:2014 Requirements of EN 15534-4:2014 F'max ↗ 3300 N (arithmetic mean value) F'max ↗ 3000 N (individual values) Deflection under a load of 500 N ↖ 2,0mm (arithmetic mean value) Deflection under a load of 500 N ↖ 2,5mm (individual values) Span: 300mm	Average Fmax: 4177N Minimum Fmax: 4013N Average deflection under 500N: 0.52mm Maximum deflection under 500N: 0.62mm Average bending stregth: 28.9MPa Average modulus of elasticity: 4120MPa
RESISTANCE TO INDENTATION CLAUSE 7.5 of EN 15534-1:2014 Requirements of EN 15534-4:2014 Load rate: 66 N/S Final Load: 2000N	Brinell hardness: 54N/mm² Rate of elastic recovery: 75%
CREEP BEHAVIOR (KNOWN SPAN IN USE) CLAUSE 7.4.1 of EN 15534-1:2014 Requirements of EN 15534-4:2014 Testing atmosphere: 24+2 °C, 50+5% RH Span: 300mm (Manufacture declare) Load:1000 N Loading duration: 504h Recovering duration: 24h Requirements of EN 15534-4:2014: Δ S ↖ 10mm for arithmetic mean value Δ S ↖ 13mm for individual values Δ Sr ↖ 5mm for arithmetic mean values	ΔS (arithmetic mean value): 1.24mm ΔS (Maximum individual value): 1.37mm ΔSr (arithmetic mean value): 0.86mm
RESISTANCE TO ARTIFICIAL WEATHERING CLAUSE 8.1 of EN 15534-1:2014 , Cycle 1 of EN ISO 4892-2:2013 Duration: 2000h Requirements of EN 15534-4:2014: ΔL*, Δa*, Δb* shall be declared.	ΔE*: 0.99 Grey scale: 4-5 (No declared value)
TENSILE STRENGTH PERPENDICULAR TO THE PANEL AFTER ARTIFICIAL WEATHERING EN 319:1993 and Cycle 1 of EN ISO 4892-2:2013 and client's requirements Duration: 2000h Test speed: 0.5mm/min	Average value: 1.63MPa Failure mode: Adhesive failure (See note)
MOISTURE RESISTANCE - BOILING TEST Clause 8.3.3 of EN 15534-1:2014, EN 319:1993 and client's requirements Requirements of EN 15534-4:2014 Mean water absorption ≤ 7% Individual water absorption ≤ 9%	Water absorption: Average value: 0.67% Maximum value: 1.03% Length change: 0.22% Width change: 0.16% Thickness change: 1.60%
FIRE BEHAVIOUR	Not tested

TENSILE STRENGTH PERPENDICULAR TO THE PANEL AFTER BOILING TEST EN 319:1993, clause 8.3.3 of EN 15534-1:2014 and client's requirements Test speed: 0.5mm/min	Average value: 1.54MPa Failure mode: Adhesive failure (See note)
MOISTURE RESISTANCE - UNDER CYCLIC CONDITIONS Clause 8.3.2 of EN 15534-1:2014 Requirements of EN 15534-4:2014 Mean of decrease of bending strength ↖ 20% Individual decrease of bending strength ↖ 30%	Average bending stregth: 25.6MPa Average modulus of elasticity: 3293MPa Mean of decrease of bending strenght: 11.4% Maximum individual decrease of bending: 15.3% Average value: Water absorption: 0.19% Length change: 0.01% Width change: 0.11% Thickness change: 0.22%
TENSILE STRENGTH PERPENDICULAR TO THE PANEL UNDER CYCLIC CONDITIONS EN 319:1993, clause 8.3.2 of EN 15534--1:2014 and client's requirements Test speed: 0.5mm/min	Average value: 0.69MPa Failure mode: Core material
***LINEAR THERMAL EXPANSION** Clause 9.2 of EN 15534-1:2014 Temperature range: -20°C to 80°C Requirements of EN 15534-4:2014: Linear thermal expansion coefficient ↖ $50x10^{-6}$ K^{-1}	Average value of the coefficient of linear thermal expansion: 36x10 K (length direction)
HEAT REVERSION Clause 9.3 of EN 15534-1:2014 Specimen: 250x137x22mm Heating: 100°C, 60min	Average length change: 0.20%
***RESISTANCE AGAINST DISCOLOURING MICRO-FUNGI** Clause 9.3 of EN 15534-1:2014 Specimen: 250x137x22mm Heating: 100°C, 60min	Rate: 0 No covering or discoloration visible
DEGREE OF CHALKING (APPLICABELE TO COATED PRODUCTS, ONLY) Clause 10.1 of EN 15534-1:2014 and ISO 16869:2008(E)	The product is uncoated
TENSILE STRENGTH PERPENDICULAR TO THE PANEL Clause 10.1 of EN 15534-1:2014 EN 319:1993 Test speed: 0.5mm/min	Average value: 1.59MPa Failure mode: Adhesive failure (See note)
ABRASION RESISTANCE ASTM D4060-14 Wheel; CS-17 Load: 1Kg/wheel Revolution: 1000r	Wear Index: 31mg/1000r

COMPONENTS

W Profile 220x26

Alu-L 49x53

Screw A2 Ø4.8x19

Screw A2 Ø4.8x38

Nylon Cap

Alu 38x20

Spacer 25x3

Rect Washer 20x9x2.5

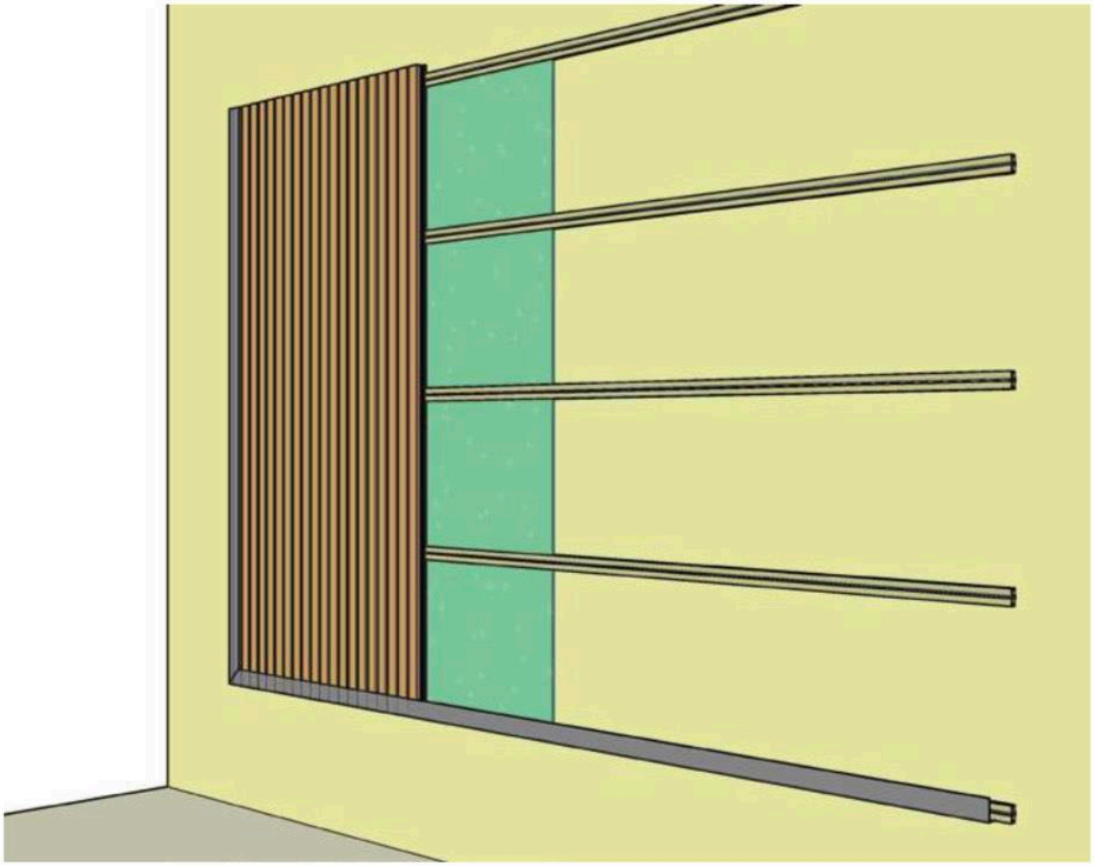
Nylon Anchor Fastener 8x60

Screw A2 Ø3.5x19

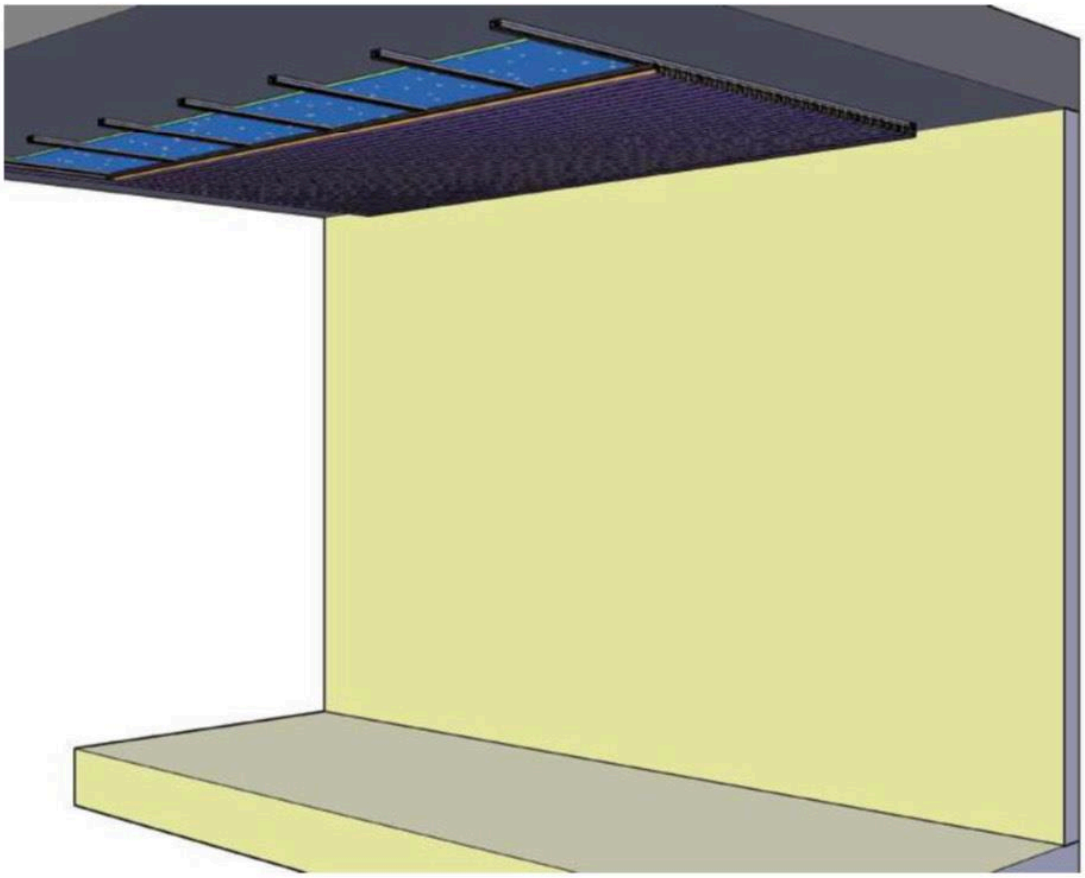
POSSIBLE INSTALLATIONS

HORIZONTAL

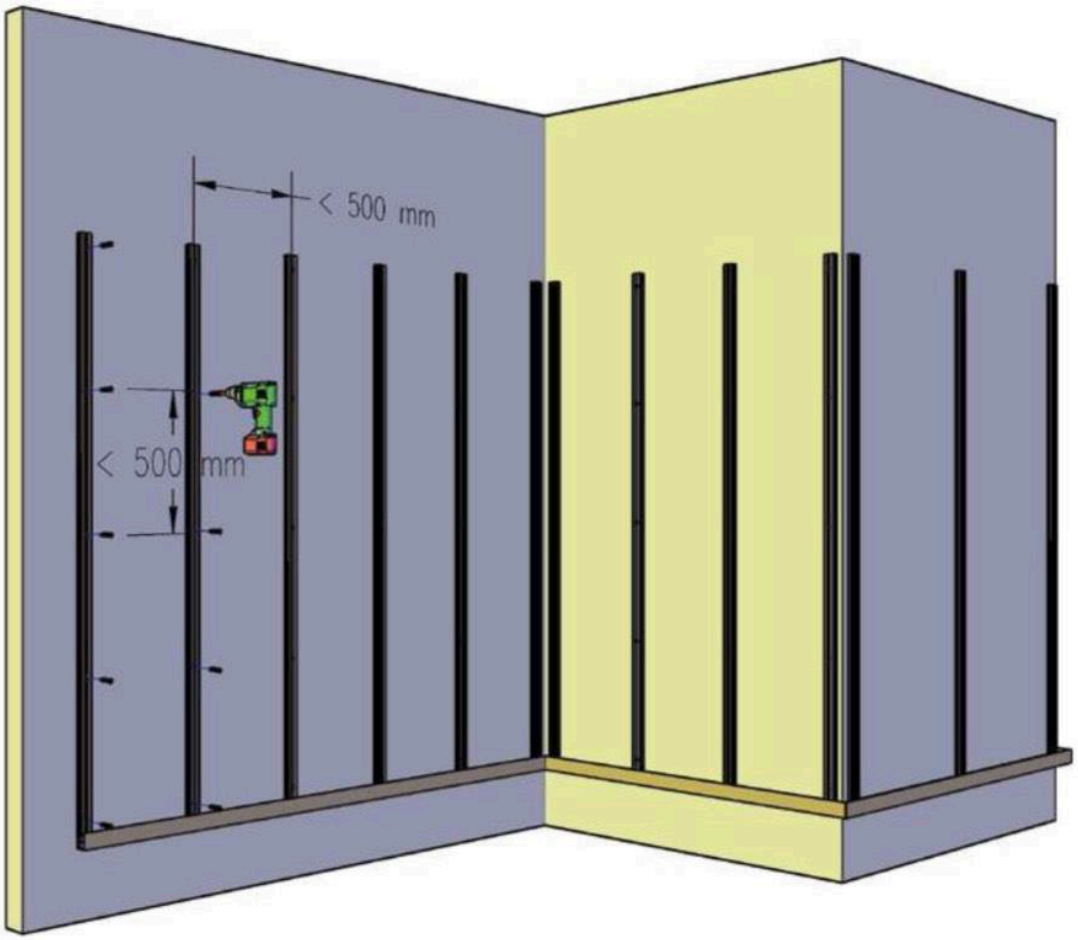
VERTICAL

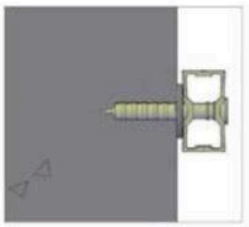


CEILLING



STEP 2 - Joist Placing and Fixing.



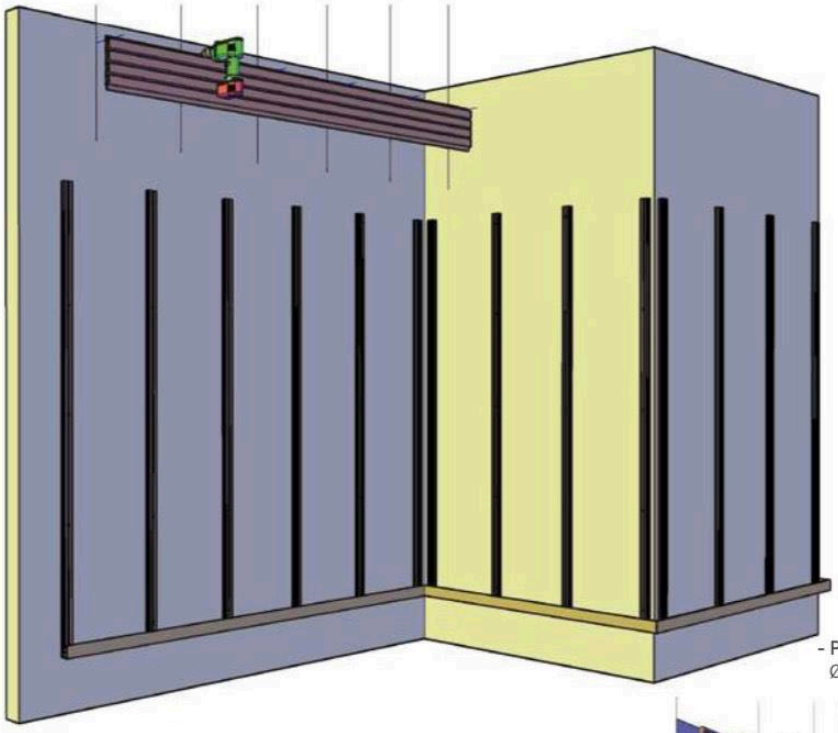


Alu 38x20

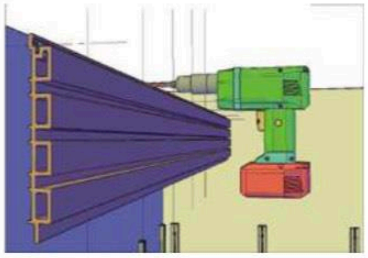
Spacer 25x3

Nylon Anchor Fastener 8x60

STEP 3 - W Board Cutting and Drilling



- Pré-drill W Board with Ø8mm drill or bigger.



- Before screw W Profile, align Profile with 15mm spacers.

- Repeat this procedure and verify alignments in all profiles to guarantee the profiles and panels alignment.

- Attention

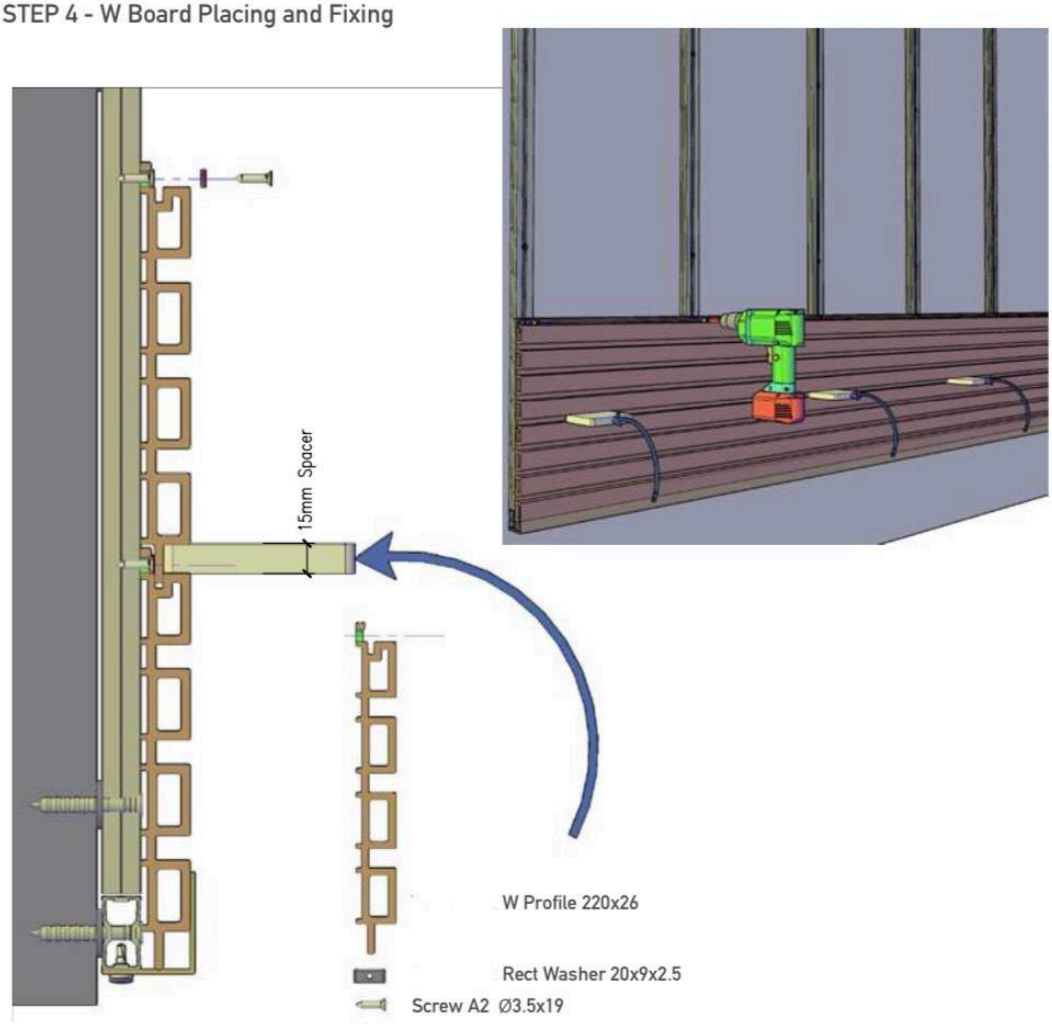
- A peripheral space of 10 mm must be kept around the installed set of panels, allowing the normal expansion movement. Use profiles to cover these spaces without blocking the material movement.

- Please do not overtighten the fixation screws. Overtightening the fixations screws, can damage the boards and/or the rectangular washer and does not allow for the natural free movement of the boards due to temperature changes. Use the screwdriver torque control.

W Profile 220x26

w. 05/2022

STEP 4 - W Board Placing and Fixing



- Before screw W Profile, align Profile with 15mm spacers.

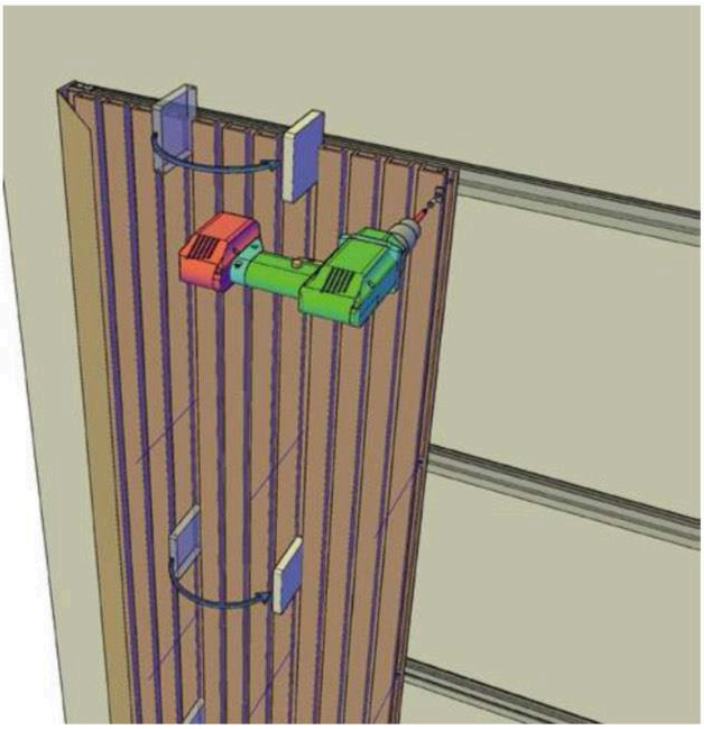
- Repeat this procedure and verify alignments in all profiles to guarantee the profiles and panels alignment.

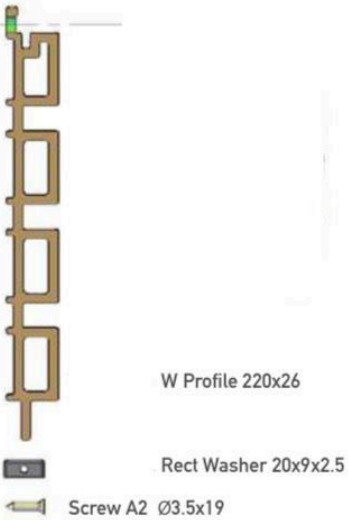
- **Attention**

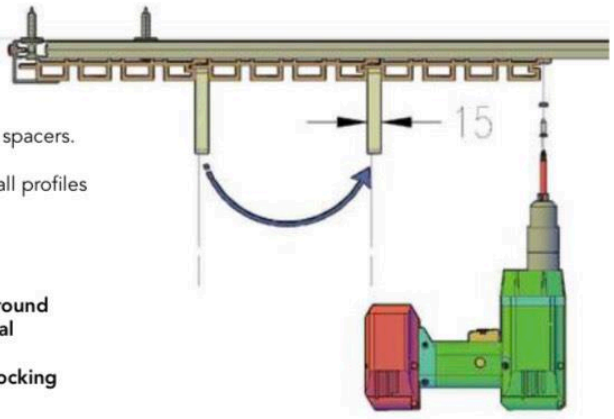
- **A peripheral space of 10 mm must be kept around the installed set of panels, allowing the normal expansion movement. Use profiles to cover these spaces without blocking the material movement.**

- **Please do not overtighten the fixation screws. Overtightening the fixations screws, can damage the boards and/or the rectangular washer and does not allow for the natural free movement of the boards due to temperature changes. Use the screwdriver torque control.**

STEP 4 - W Board Placing and Fixing







- Before screw W Profile, align Profile with 15mm spacers.

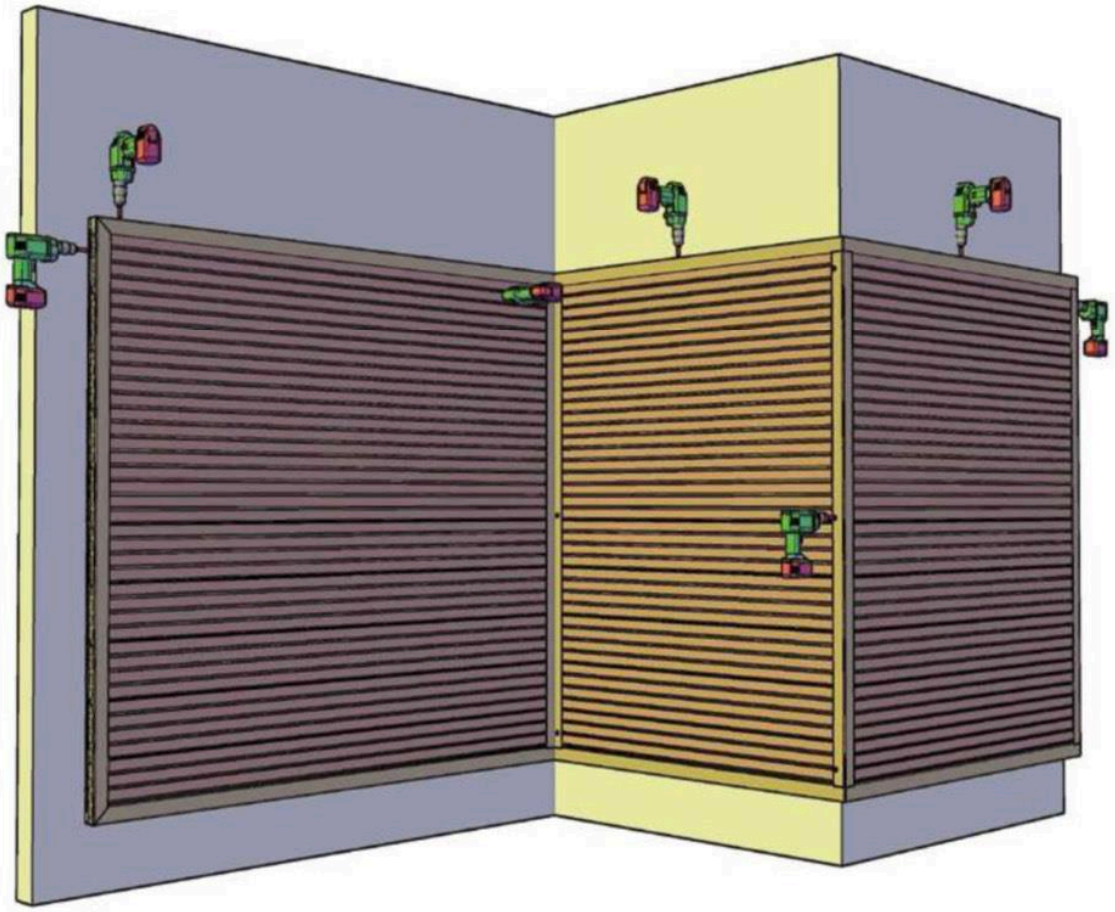
- Repeat this procedure and verify alignments in all profiles to guarantee the profiles and panels alignment.

- **Attention**

- **A peripheral space of 10 mm must be kept around the installed set of panels, allowing the normal expansion movement.**
  Use profiles to cover these spaces without blocking the material movement.

- **Please do not overtighten the fixation screws.**
  Overtightening the fixations screws, can damage the boards and/or the rectangular washer and does not allow for the natural free
  movement of the boards due to temperature changes.
  Use the screwdriver torque control.

STEP 5 - Finishing Profile Placing and Fixing



Alu-L 49x53

Screw A2 Ø4.8x19

Screw A2 Ø4.8x38

Nylon Cap