

AQUABOARD INFILL WALL – RC2 against burglary **AQB-1 255/M100/40 + M100/40 – 1 AQB + 2 LaDura BA13 + 1 PV BA13 - 2 RW 100/80**

AquaBoard infill wall, **255 mm** thick and **3,00 m** maximum height made with:

- Double staggered metal frame composed as follow:
 - Outer metal frame composed by **PregyMetalAquaBoard** Aluzinc steel profiles:
 - **M100 single** studs, **47-99-50 mm** dimensions, **6/10 mm** thick, at **40 cm** maximum spacing;
 - **U100** tracks, **40-100-40 mm** dimensions, **10/10 mm** thick, fixed to floor and ceiling with proper dowels at **50 cm** spacing;
 - Inner metal frame composed by **PregyMetal** galvanized steel profiles:
 - **M100 single** studs, **47-99-50 mm** dimensions, **6/10 mm** thick, at **40 cm** maximum spacing;
 - **U100** tracks, **40-100-40 mm**, **6/10 mm** thick, fixed to floor and ceiling with proper dowels at **50 cm** spacing;

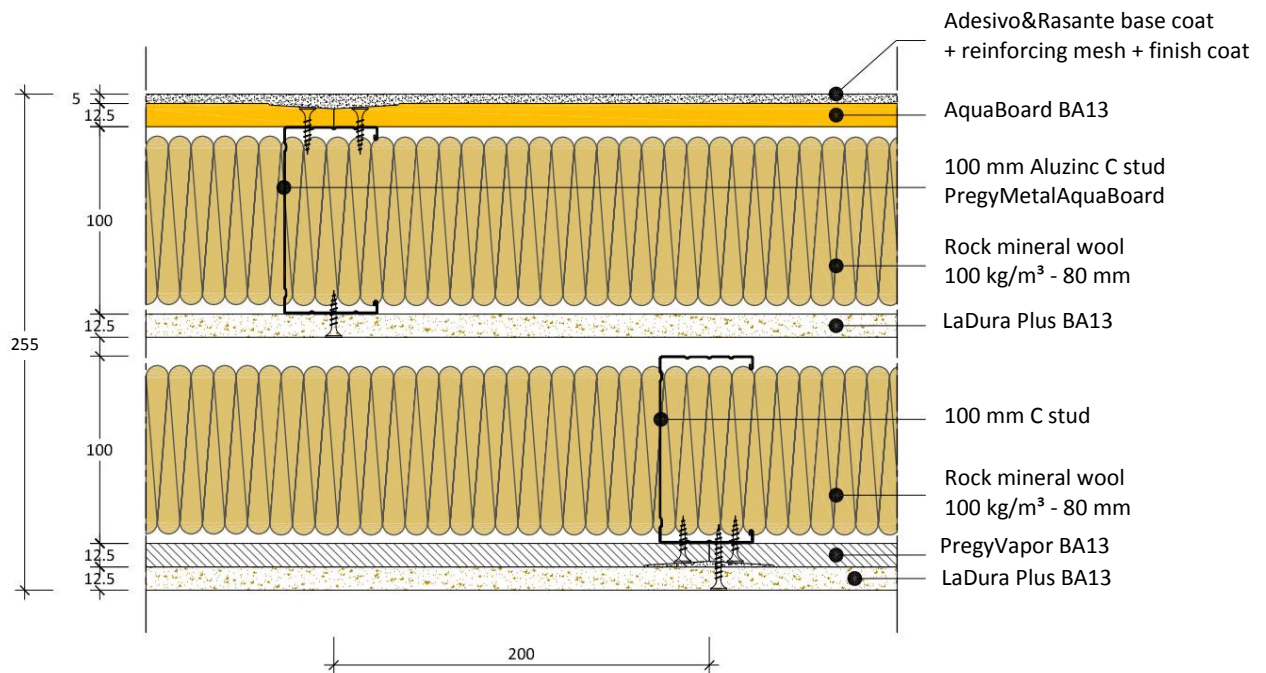
The studs are installed staggered by 20 cm from one frame to the other
- Monoadhesive polyethylene tape applied behind the metal frame all along the edges;
- Outer side boarding composed by:
 - **1 x 12,5 mm AquaBoard BA13** fixed on the outer metal frame with **AquaBoard screws** at **20 cm** max spacing.
- Intermediate boarding (in the cavity between the frames) composed by:
 - **1 x 12,5 mm LaDura Plus BA13** fixed on the outer metal frame with **LaDura screws** at **20 cm** max spacing.
- Inner side boarding composed by:
 - **1 x 12,5 mm PregyVapor BA13** as inner layer fixed on the inner metal frame with **Pregy TF 212 x 25 screws** at **20 cm** max spacing.
 - **1 x 12,5 mm LaDura BA13** as outer layer fixed on the inner metal frame with **LaDura x 45 screws** at **20 cm** max spacing.
- Insulation:
 - **Rock mineral wool**, **100 kg/m³** density, **80 mm** thick in the outer frame;
 - **Rock mineral wool**, **100 kg/m³** density, **80 mm** thick in the inner frame;
- Joint filling compound and tape for inner cladding:
 - **Pregy** compounds and joint tape, according to Siniat's instructions.
- Exterior finishing:
 - The joints between AquaBoard have to be filled with **Adesivo&Rasante AquaBoard** powder compound, reinforced with AquaBoard alkali resistant glass fiber tape 6,25 cm wide;

- The surface have to be finished with Adesivo&Rasante powder compound base coat (3+2 mm), reinforced with alkali resistant glass fiber mesh, and Keracover Eco Acrilex finish coat and primer.

Reference standard for the installation: UNI 11424

Remarks:

- Movement control joints have to be realized any 15 m length of the system.
- Doors and windows must be independent from infill wall and supported by proper structures directly fixed to the slabs.



TECHNICAL FEATURES

Maximum height is for system considering **1,00 kN/m** load imposed at 1,20 m height above the floor on the inner side and **0,70 kN/m²** of wind pressure imposed on the outer side. For further informations please contact Siniat Italy Technical Division.



ACOUSTIC PERFORMANCE

Airborne sound insulation: $R_w = 65$ dB

AcouS Stiff acoustic simulation from certificate Istituto Giordano n° 295834

Remarks:

Acoustic performance R_w is related to test conditions. Actual acoustic performance in situ (R'_w) is influenced by acoustic bridge (peripheral transmissions through floors, ceilings, corners) and by imperfections in installation.



FIRE PROTECTION

Fire reaction:

AquaBoard BA13 class **A2-s1,d0**

LaDura Plus BA13 class **A2-s1,d0**

PregyVapor BA13 clas **A2-s1,d0**



THERMAL PERFORMANCE

Thermal trasmittance: $U = 0,18 \text{ W/m}^2\text{K}$

Periodic thermal trasmittance: $Y_{ie} = 0,077 \text{ W/m}^2\text{K}$



BURGLAR RESISTANCE

RC2 to EN 1267:2011

Reference certificate: Istituto Giordano n° 291341



TECHNICAL APPROVAL

ITC-CNR n° 648/11 dated 02/11/2011



SUSTAINABILITY

100% recyclable gypsum plasterboards

Recycled content in AquaBoard plasterboards:

Overall recycled content more than 36 % (34 % pre-consumer and 2 % post-consumer).

Recycled content in other gypsum plasterboards:

Overall recycled content more than 41 % (36 % pre-consumer and 5 % post-consumer).

Self-declared environmental claim according to UNI EN ISO 14021, validated by ICMQ, certificate n. 0032AA dated 12-01-2016.

All performance data and system specifications are for system constructed with materials and components as described. The inclusion or substitution of any other manufacturers material or component invalidates both test data and system performance.

Please contact Siniat Italy Technical Division for further informations.