ArcelorMittal

Arval
by ArcelorMittal

ARCHISOL

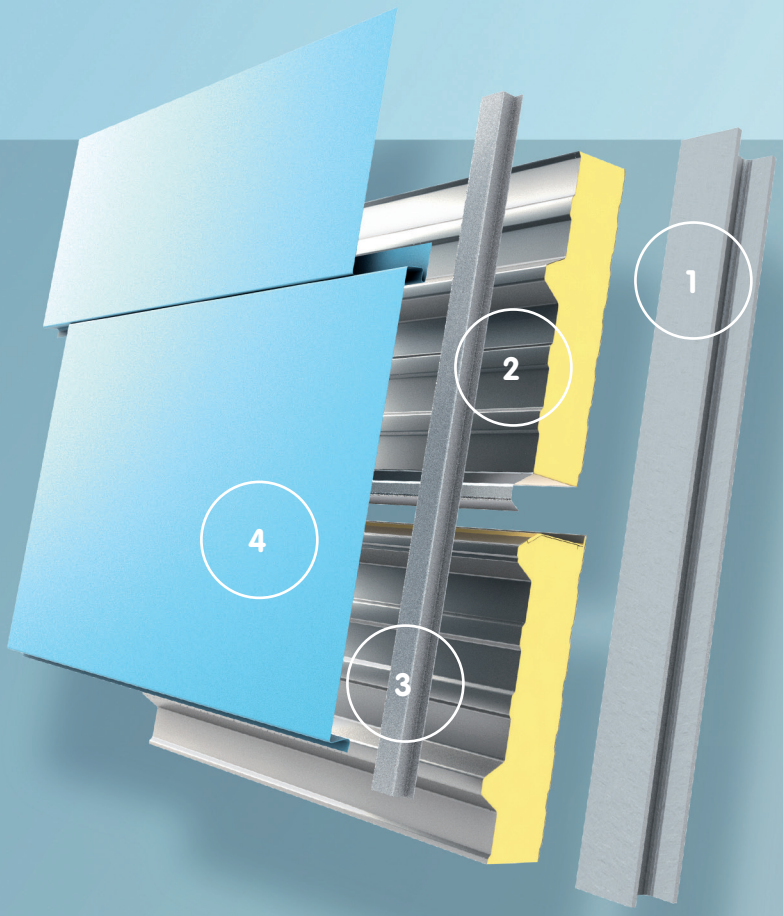
Free Architecture,
High performant Isolation

The first **"all in one"** panel
Insulating, Dressing, Easing

ArcelorMittal

ARCHISOL

Innovation inside



As for the building solution **ARCHISOL**, **Arval by ArcelorMittal** has developed a double skin system where the load-bearing tray is replaced by a sandwich panel **ARCHISOL** whose specifications are designed to ensure the load-bearing function. The sandwich panel is air-tigh, provides superior thermal performance and minimizes thermal bridges.

This system allows the implementation of external cladding profiles Trapeza, Océane and Fréquence laid horizontally or vertically, of facade sidings but also of any other material.

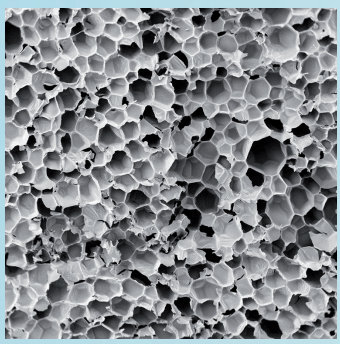
ARCHISOL offers a great aesthetic freedom for façades. It has been designed to fix the external cladding either directly or via a specific secondary frame.

ARCHISOL benefits from the CSTB's ATEX Nr. 2208.

The panel is made of the combination of our precoated steels and a thermal insulation designed in our own research center and manufactured in our plants: the **PRT Hexacore®**.

1. Load-bearing structure
2. **ARCHISOL** panel
3. Design of intermediary frame to suit external skin (if necessary)
4. External skin: cladding profiles (Fréquence, Océane, Trapéza, Eclectic); sidings (Hairplan, ST) or cassettes

$U_p \leq 0.20$ W/m².K



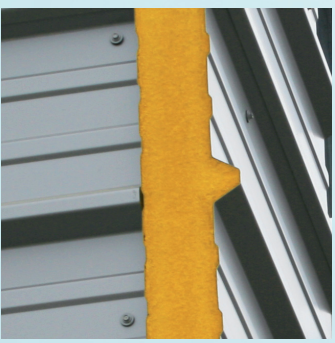
Zoom PRT Hexacore®

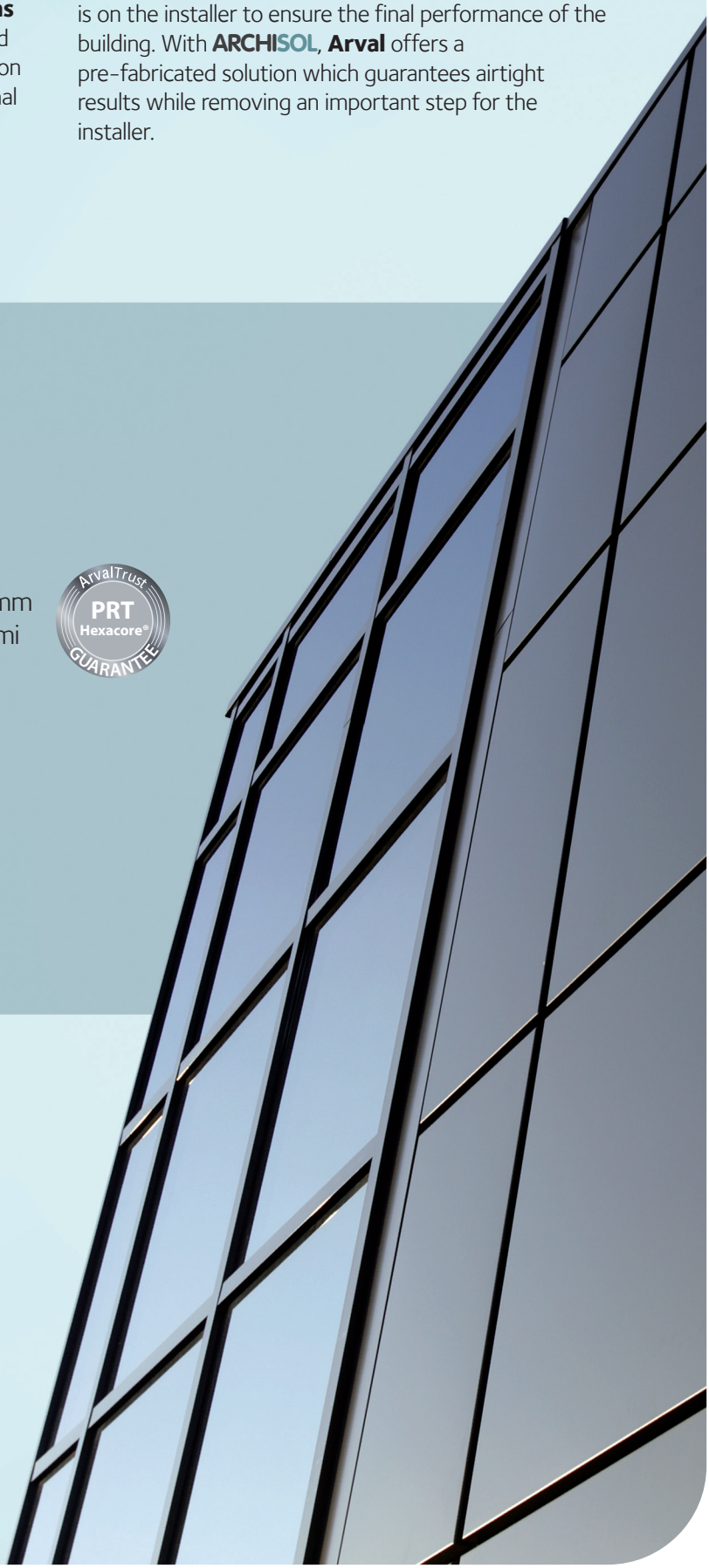
THE BENEFITS

- **Span** up to 6.50 metres
- **Length** up to 16 metres
- **Self-weight** 13-18 kg/m² according to panel thickness
- **Solution particuliary suitable for constructions in seismic zones:** it has been mechanically validated to fulfil the requirements of the new seismic regulation
- **Acoustic performances RA,tr :** 35db with internal lining (insulation 80 mm and plasterboard BA13)
- **Simple** and **fast** installation in 2 steps rapidly creating a weathertight building, allowing internal fit-out to start sooner (pouring of concrete slab,..), no risk to damage the external easthetic skin which can be installed later when all the trades finished the work.
- **Guarantee of results:** the double skin requires a large responsability from the installer to reach the high levels of air tightness. In terms of guarantee, the onus is on the installer to ensure the final performance of the building. With **ARCHISOL**, **Arval** offers a pre-fabricated solution which guarantees airtight results while removing an important step for the installer.

THE + SYSTEM

- **Airtight** without membrane installation
- **Outstanding thermal insulation:**
  Up-value ≤ 0.20 W/m² for a thickness ≥ 120 mm thanks to our insulation **Hexacore®** with Acermi certification Nr. 15/193/988
- **Easy to install**
- **Aesthetic freedom:**
  the widest range of finishes
- **Thinner construction:**
  saving 3% of available surface





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transforming
tomorrow

www.arcelormittal.com/arval

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