



ArcelorMittal



THE NEW CHALLENGE OF CONSTRUCTION: OPPORTUNITIES TO REDUCE ENVIRONMENTAL IMPACTS

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Steel and Construction Market Challenges and Opportunities

Growing Population
and
Urbanisation

Climate change

Numeric World
Digitalization



Construction market Energy and CO2

The Construction market is responsible for :



- 40 % of the Energy consumption
- 2/3 of the CO2 Gaz emission

The European Construction market: The Energy trend and Europe

- *“Reduction of energy consumption and the use of energy from renewable sources in the buildings sector constitute important measures needed to reduce the Union’s energy dependency and greenhouse gas emissions”*



www.epbd-ca.eu
[Directive 2010/31/EU](#)

The European Construction market: The EPBD

- A powerful driver: the european **EPBD**

Energy Performance of Buildings Directive



The European Construction market: The factor 4

Objective factor **4** to 2050 :

reduction of energy consumption
and

carbon footprint
by

4

www.epbd-ca.eu



The European Construction market: Solutions for Energy Efficient Buildings

- Passive Systems: Efficient Insulation and Thermal Performances



- Active systems : Energy Harvesting



ArcelorMittal Construction Market & Development

32% of ArcelorMittal turnover



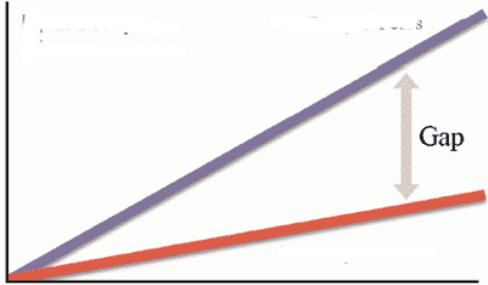
A strategy to deliver :
differentiated products
unique design solutions

ArcelorMittal is the leading global provider
of steel for construction



ArcelorMittal

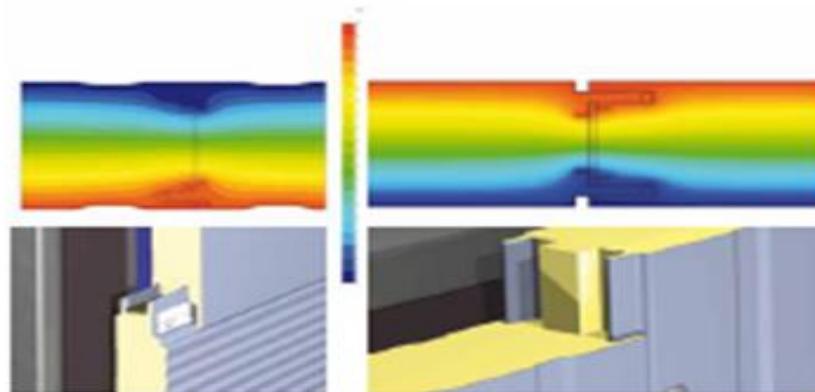
ArcelorMittal Construction Development and Energy Efficiency



Forecast performance
versus
Actual performance



Building science program on air tightness, thermal bridges, and efficient insulation



ArcelorMittal Construction Steel Solutions for Building Insulation in New and Retrofit buildings



Each year ArcelorMittal Construction
contributes to saving over

18 millions of MWH of energy
or
5 millions Tons of CO2 eq



ArcelorMittal and Construction Market Energy Efficiency in Buildings advocacy

Fondation Batiment Energie in France

Created in 2005 by ArcelorMittal, Engie, EDF and Lafarge. 10 years activity to support and fund research projects to improve the Energy Efficiency of Buildings especially through retrofitting.

www.batiment-energie.org

WBCSD EEB 2.0 project

Initiative on behalf of the WBCSD (World Business Council for Sustainable Development) that works on worldwide regional construction markets to identify and find solutions to overcome non-technical barriers that hamper the uptake of energy-efficient solutions in both new and existing buildings (Participants : UTC, Lafarge, Skanska, SGS, Arcadis, Engie, ArcelorMittal, AkzoNobel, Siemens, Infosys, Schneider Electric, AGC Glass, Rexel,..)

<http://www.wbcd.org/buildings.aspx>



Arcelormittal and Construction Market

A path to industrialised construction

Preindustrialised Steel Solutions for



- Affordable
- Reliable
- Speed-up construction

