



IZM - Illwerke Zentrum Montafon

PROJECT

Illwerke Zentrum
Montafon

LOCATION

Montafon, Austria

CLIENT

Vorarlberger Illwerke AG

START OF CONSTRUCTION

March 2012

COMPLETION

August 2013

LENGTH

120 m

WIDTH

16 m

HEIGHT

21 m

NUMBER OF FLOORS ABOVE GROUND

5

GROSS FLOOR AREA (GFA)

11,500 m²

USABLE FLOOR SPACE

10,400 m²

This building breaks the mold

Representing a huge step forward for timber-hybrid construction in Europe, CREE's first external customer order showcases its versatility and aesthetic possibilities against an idyllic backdrop in Vorarlberg, Austria.

This building breaks the mold: rather than towering over its lakeside surroundings, the hydropower center commands yet complements the landscape with its imposing length of 120 m. Each 2,000 m² floor level went up and was enclosed in an impressive 7 days. Complete with a works restaurant and visitor center, this project demonstrates the versatility of interior spaces in a CREE building. The IZM also represents a milestone in resource-efficient, sustainable construction: it is the first green building of its size in Vorarlberg and one of the largest office buildings in the world to use timber-hybrid construction. A bold and substantial step forward for CREE and Illwerke AG.



Facts

LOCATION

1/3 in the Rodund pump storage basin

ARCHITECTURE

designed by Hermann Kaufmann, facades mostly timber, exposed timber structure, entrance foyer

ENERGY STANDARD

passivhaus technology

FENESTRATION

triple glazing

OPERATING COSTS

optimised by automatic energy consumption monitoring

ROOM TEMPERATURE

heating / cooling panels integrated into the ceiling, window contacts to avoid energy losses

AIR QUALITY

artificial ventilation with highly efficient heat recovery, automatically controlled via CO₂ measurements

INTELLIGENT

BUILDING SERVICES
blinds with automatically controlled drives, lighting control system with presence detectors and daylight sensors

BUILDING SERVICES EQUIPMENT

electronic access control system, passenger lifts, fibre optic cable wiring, individual energy consumption visualisation

LIGHTING

basic lighting to general areas, individual office lighting in LED technology

FLOOR PANEL CONSTRUCTION

cavity floor with optimised sound insulation

PARTITION WALLS
optionally in drywall construction or with partition wall system

HIGH SAFETY STANDARDS

sprinkler and fire alarm systems