

VELTER
LOW-CARBON CONCRETE



**Greener
future
now.**

Higher durability. Less carbon.

 **INTERBETON**
A TITAN GROUP COMPANY

**TITAN
EDGE**
WHERE PERFORMANCE
MEETS SUSTAINABILITY

A New Era in Construction

INTERBETON accelerates the transition of the construction industry in a new era of sustainability offering VELTER™ — the new generation of ready-mix concrete that breaks the mold. VELTER™ is a TITANEdge offering, where “performance meets sustainability” and represents the evolution of the building industry toward a sustainable future, combining the latest technology with high performance and a firm commitment to reducing the environmental footprint.

Sustainable Construction for a Better Tomorrow

With VELTER™, INTERBETON leads the way to more sustainable construction. These innovative building materials reduce carbon dioxide emissions by up to 30% compared to conventional concrete, making them the ideal choice for those who want to contribute to environmental protection without compromising the quality and durability of their projects.

Guarantee for Green Construction

VELTER™ offers the most innovative solution on the Greek market, with the lowest greenhouse gas emissions, certified through Type III Environmental Product Declarations (EPDs) by Eurocert.

By choosing VELTER™, clients are fully prepared to comply with the new European regulations, which will set national limits on embodied carbon dioxide in construction, contributing to increasingly sustainable buildings. Additionally, projects that use VELTER™ earn points in certifications like LEED, BREEAM, and the European voluntary system Level(s).

VELTER™ belongs to the TITAN Edge product family

The TITAN Edge product line is the flagship of TITAN Group’s innovative solutions. These products demonstrate the company’s commitment to providing customer-focused solutions that offer superior performance and sustainable development. The goal of TITAN Edge products is to deliver innovative and sustainable solutions that enable customers to meet today’s demands and tomorrow’s challenges. From complex construction to simpler projects, TITAN Edge products are designed to create a more resilient, safer, and environmentally friendly world.

The first phase of the TITAN Edge series includes bulk and bagged cement, as well as ready-mix concrete, promising exceptional technical and operational performance. These materials are key to greener construction, as they combine sustainability with innovation, contributing to the creation of high-value projects that respect the planet.



Ensuring superior quality

VELTER™ concrete is produced using raw materials that are CE marked.

Low-Carbon Concrete

VELTER™ provides professionals in the construction industry with the opportunity to create projects that meet the challenges of tomorrow, ensuring safety, durability, and environmental responsibility.

VELTER™ is fully aligned with TITAN’s Green Growth Strategy for 2026, demonstrating the Group’s commitment to customer focus, superior performance, and sustainable development.

VELTER™ is the answer to modern building industry needs. With exceptional environmental performance, this concrete combines outstanding durability with flexibility, making it the ideal choice for high-demand projects in both the private and public sectors. From the foundations of a house to the construction of major infrastructure, VELTER™ ensures strength and quality, even in the most extreme conditions.

Development with Advanced Technologies

VELTER™ was developed using the latest technologies, offering resistance to phenomena such as carbonation and chloride penetration, and is highly resistant to chemical sulfate attack. Designed with superior durability, it provides reliable solutions for both urban construction and coastal structures.

Why Choose VELTER™?

Engineers and Architects

Differentiate and Provide your clients with sustainable solutions by selecting modern concrete that reduces the carbon footprint, enhances durability and excels in environmental performance.

Homeowners

Build a modern, safe, and more sustainable home with materials that offer not only durability but also safety and environmental responsibility.

Contractors

Stand out in the market by choosing green solutions that exceed today's demands. Add value to your project, showcasing it as a model of sustainability.

Investors

Increase the value of your assets by choosing building materials recognized for their innovation and sustainability, aligning with market trends for green construction.

50%

Compared to concrete made with CEM I

30%

Compared to conventional concrete



Green Construction with VELTER™

VELTER™ is the result of extensive research and development by INTERBETON, designed to meet the challenges of European regulations on reducing the Global Warming Potential (GWP) over a building's entire life cycle. GWP reflects a building's overall contribution to greenhouse gas emissions², including embodied emissions from the construction materials used, emissions from the building's operation, and its demolition phase.

European Union regulations¹ will require member states to set national benchmarks for energy efficiency and sustainability in new buildings. VELTER™ offers today the solution the construction ecosystem to be prepared towards these requirements - thanks to its use, buildings will achieve optimal performance, versus current practices, at every stage of their life cycle, from construction to demolition.

¹ (European directive by the end of 2025, effective from 1/1/2028 for all new buildings with a usable area over 1,000 m² and from 1/1/2030 for all new buildings).

² Greenhouse gas emissions occur throughout the entire lifecycle of a building, including the production and transportation of building materials, construction site activities, energy use in the building, and the replacement of building products due to wear in harsh exposure environments, as well as demolition, transportation, and waste material management, including reuse, recycling, and final disposal.

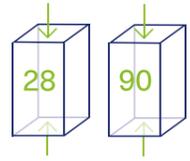
VELTER™ Ready-Mix Concrete Series

	VELTER C20/25, XC1	VELTER C25/30, XC3	VELTER C30/37, XS1, XS2
S3 Maximum aggregate 31,5 mm	●	●	●
S4 Maximum aggregate 31,5 mm	●	●	●
Available with standard or fast setting and the option for a crystalline admixture		●	●

All VELTER™ mix designs are accompanied by environmental performance declarations (EPDs), available on the website interbeton.gr.

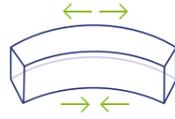


Benefits and Technical Performance



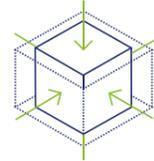
Reliability

VELTER™ concrete offers same compressive strengths to conventional concrete, both at 28 and 90 days.



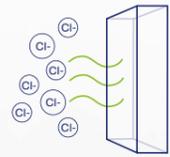
Other Strengths

There is no difference in the development of tensile strength compared to conventional concrete, and it does not affect the structural design.



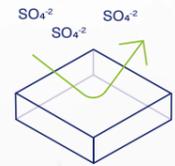
Modulus of Elasticity

VELTER™ concrete and conventional concrete have the same modulus of elasticity, without affecting the structural design.



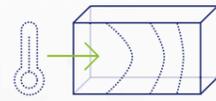
Chloride Resistance

Lower chloride penetration vs. conventional concrete makes VELTER™ ideal for coastal construction.



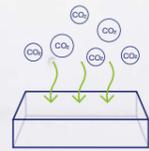
Sulfate Resistance

Significantly increased resistance to chemical sulfate attack compared to conventional concrete, due to its low porosity and reduced tricalcium aluminate content.



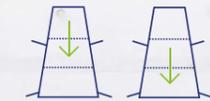
Heat of Hydration

Reduced rate of heat release during hydration, with a significantly lower likelihood of thermally induced cracking.



Carbonation Resistance

Due to reduced CO₂ penetration into the concrete mass, VELTER™ offers durability equivalent to conventional concrete.

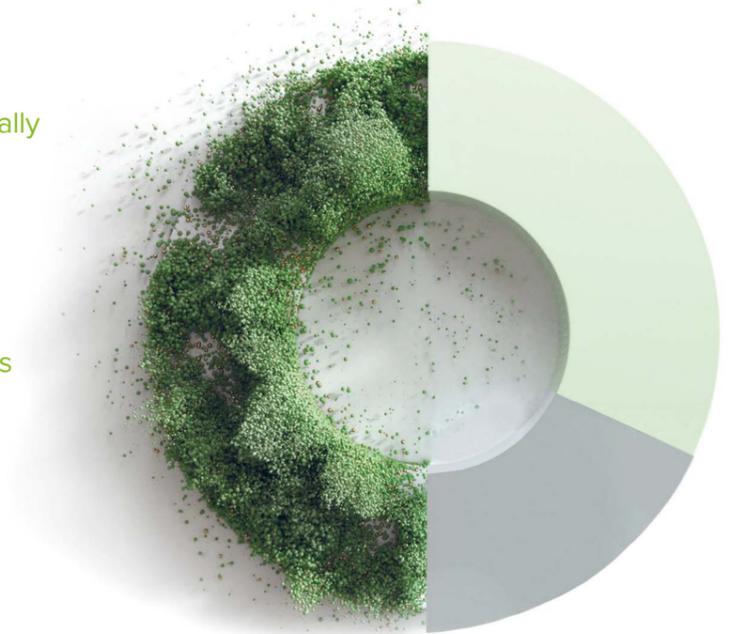


Workability

Available in S4 and S3 slump classes, VELTER™ provides easy, safe, and effective placement for construction crews, with less labor effort.

Outstanding Environmental Performance

Construction projects built with VELTER™ concrete are greener and more environmentally friendly. They complement their energy efficiency (during operation) with significant reductions in embodied CO₂ emissions from the building materials, enhancing the value of environmentally responsible construction that owners and potential buyers increasingly appreciate.



30% reduction in CO₂ compared to conventional concrete

Environmentally Friendly Materials

Projects built with VELTER™ reduce the environmental burden of the carbon footprint of the primary construction material (ready-mix concrete) by up to 30%.

CO₂ Reduction Per Square Meter of Construction

The reduction in CO₂ kilograms per usable square meter of construction, compared to conventional concrete commonly available in the Greek market, leads to greener and sustainable residential projects.

Documentation and Transparency

The CO₂ reduction is documented per project and mix design through comparisons of Environmental Product Declarations (EPDs) between conventional concrete and VELTER™.

Green Construction

The reduction in greenhouse gases achieved with VELTER™ can reach up to 90 kg of CO₂ per square meter, depending on the strength category and mix design.

Green Construction Certification

Enhanced evaluation in the LEED™ certification process (version 4.0 and 5.0), under MR Prerequisite: Assess Embodied Carbon, and the achievement of LEED platinum level, from MR Credit: Reduce Embodied Carbon.

CE Marking on Raw Materials

VELTER™ concrete is produced using raw materials that are CE marked, ensuring the superior quality of the product.



For further information on how VELTER™ can contribute to the sustainability of your project, contact our team.

main@interbeton.gr



- Vesta: Green Product Identity
- Vesta Rating: Ultra
- Ultra-low “eqCO₂/MPa”
- External Verification Body : BQV
- Available EPDs

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