TAB®Floor

ArcelorMittal Fibres
Reinforced concrete solutions

Building quickly and cost effectively for Amazon, Dobroviz

Project overview ›

Construction of the 95,000m^2 Amazon distribution centre in Dobroviz, near Prague started in 2015. Amazon's decision to invest in Dobroviz has been praised by the local community and the site now employs approximately 2,000 permanent and 3,000 seasonal workers.

The new facility, which is the first Amazon site in the Czech Republic, manages customer returns. Amazon is widely considered as a welcome addition to the growing number of international companies who are investing in the area.

Developer: Panattoni
General Contractor: Kajima
Flooring contractor: Techfloor
Concrete supplier: Zapa Beton (Part od Buzzi Unicem)
Topping and curing supplier: Sika
Investor: Amazon

Concrete class: C25/30
Fibre type: HE 75/35
Fibre dosage: 25Kg/m^3
Usage: Amazon logistics warehouse
Area: 95,000m^3
Slab thickness: 20cm
Construction date: December 2014 – April 2015

> "With excellent transport links, the picturesque city is in a perfect position to host a logistical business like Amazon."
>
> Amazon spokesperson

BUILDING QUICKLY AND COST EFFECTIVELY FOR AMAZON, DOBROVIZ

The challenge ›

With growth in the logistics sector being driven by the accelerating shift in consumers' retail habits to online shopping, the warehousing construction market looks like it is set to be a long-term growth area.

Shifts in consumer retail habits have increased Amazon's requirement for a more comprehensive network of warehouse and distribution facilities.

Amazon's new facilities will enable the retailer to meet consumer demand without compromising product choice or the speed of fulfilment.

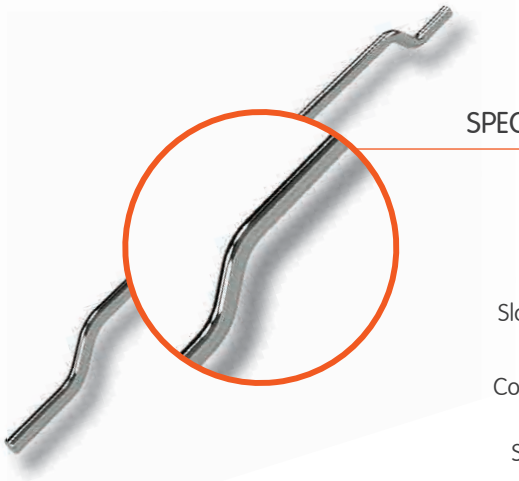
Building quickly and cost effectively to meet the performance criteria for the necessary dynamic and static loads has been central to the success of this construction project for Amazon in Dobroviz.

The design of a jointless slab that is fit for purpose and future proofed against increases in physical demands and requirements, was the challenge that the ArcelorMittal Fibres team addressed.

The solution ›

The solution that was developed by ArcelorMIttal Fibres, in consultation with the contractors and developers, addresses the requirement for a static and dynamic, high load bearing floor that was constructed safely, quickly and cost effectively.

The 95,000m^2, 20cm deep jointless slab was constructed using C25/30 with HE 75/35 dosed at 25kg per cubic metre of concrete.



SPECIFICATION

Fibre type:
HE 75/35

Dosage:
25kg/m^3

Slab thickness:
20cm

Concrete class:
C25/30

Surface area:
95,000m^3

The result ›

The slab was successfully constructed within a 4 month period. Prior to the commencement of the project ArcelorMittal Fibres technical experts consulted on the project and a specification that met the demands of the floor was devised. Our engineers delivered support on site, advising and overseeing the installation and operation of onsite dosing equipment, dosing rates, concrete mix optimisation, performance tests, pouring and finishing. Our long-standing experience, combined with our ongoing commitment to the development of the best performing solutions, has enabled ArcelorMittal Fibres to deliver the highest quality outcome within the agreed budget.

The world is building on our expertise.

Contact: fibresupport@arcelormittal.com
Visit: www.arcelormittal.com/steelfibres

CS_Amazon Dobroviz_TAB Floor_Martin Fojtik_V1