

Container terminal at Gdynia Harbour reinforced with ArcelorMittal Fibres

Project overview >

In 2014 the Port of Gdynia Authority granted a consortium-led construction project to Strabag, for the redevelopment and construction of a new container terminal.

Project title: Container Terminal, The Port of Gdynia

Client: Port of Gdynia

Construction partners: Consortium led by Strabag

Location: Port Gdynia, Gdansk Bay, Poland, Baltic Sea

Working environment: Saltwater quayside

Area: 45,000m²

Fibre type: HE 75/60

Dosage: 30kg/m³

Project duration: 120 days

“ArcelorMittal Fibres were our preferred supplier of steel fibres for Gdynia. Their technical support and advice was instrumental in helping us to choose a steel fibre reinforced concrete solution that would perform and deliver on our expectations.

As a representative of the General Contractor, I have no hesitation in recommending ArcelorMittal Fibres.”

Karol Grada
Kierownik Projektu, Strabag

The challenge >

The Gdynia Harbour container terminal project required a detailed survey of the site and analysis of the performance requirements.

Onsite mixing and fibre dosing was required and it was necessary for ArcelorMittal Fibres to manage batch deliveries of fibres on a 'just in time' basis. Our engineers remained onsite for the duration of the installation in order to oversee the successful implementation of the project specification.



SPECIFICATION

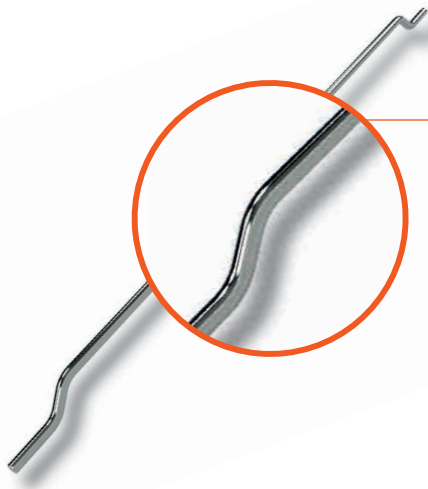
Fibre type:
HE 75/60

Dosage:
30kg/m³

Slab thickness:
35cm

Concrete class:
C35/C45

Surface area:
45,000m²



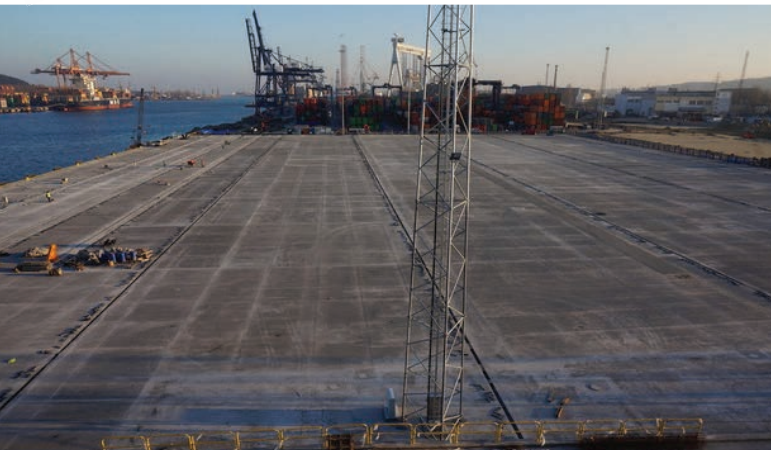
The solution >

Prior to commencement of the project ArcelorMittal Fibres engineers provided expertise on the project specification and the use of HE 75/60 fibres.

Our engineers delivered onsite support to Strabag regarding slab capacity analysis, advising and overseeing the installation and operation of onsite blasting and dosing equipment, dosing rates, concrete mix optimisation, pouring and finishing. Our long-standing experience, combined with our ongoing commitment to the development of optimised solutions has enabled us to deliver successful project outcomes consistently and with confidence.

The result >

The 45,000m², 35cm deep port-side slab, reinforced with ArcelorMittal Fibres' HE 75/60 is a key aspect of the new infrastructure at Gdynia. Handling capacity in Gdynia will now reach approximately 2 million TEU (TEU is a twenty foot equivalent shipping unit). This does not represent overcapacity, since it is forecast that by 2025, container handling in Gdansk Bay should reach 5 million TEU. The enlargement of capacity within Polish ports will create a very positive impact to the whole Polish economy.



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Contact: fibresupport@arcelormittal.com

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