INFINITY WEALTH FUTURES CO.,LTD
泰國兆峯期貨有限公司

ReforceTech™
Mineral Fiber Reinforcement Technology

CASE STUDY

High Qu ality Standard Infrastructure Slab on Grade, driveway

Non-Conductive low crack width Slab on Grade, Holmestrand Station Norway





MiniBars™ reinforced concrete slab on ground



MiniBars™ reinforced concrete slab on ground

Project Profile:

Category:	Infrastructure train and bus station driveway
Owner & Developer:	Holmestrand Kommune
Structural Engineer:	Ramboll AS
General Contractor:	OK Wike AS
Concrete supplier:	NorBetong AS
Completion:	July 2017

Technical details:

Slab on Grade:	20cm slab poured on foam base for outdoor bus terminal adjacent to electric train station.
Concrete Type:	C35 M45 Concrete
Composite reinforcement solution:	MiniBars™ 55mm @ 10 Kg/m^3 Composite bars used to reinforce at stress concentrations
Other:	Specification was to achieve 0,16 mm maximum crack width overall which was achieved with a hybrid steel net and MiniBar dosage of 10Kg. Other areas using MiniBar solution only (non-conductive solution) using 10Kg/M3 to achieve 0,20 mm crack width.

MINIBARS™ / CASE STUDY

High Quality Standard Infrastructure Slab on Grade and driveway

Non-Conductive low crack width Slab on Grade, Holmestrand Station Norway

Project description:

For this bus terminal project in Holmestrand Station, the specifier was asked to supply a design with 0,10mm crack widths for high durability concrete pavement exposed to harsh chemical and environment conditions.

Areas where conductivity was not a problem, steel nets and MiniBars™ were used to achieve the 0,1mm crack width. In areas where conductivity was a concern 10Kg per M3 of MiniBars™ achieved 0,15mm crack widths.

Non-metallic composite rebar was also used at stress concentration areas such as columns for sign posts and stair cases.

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