Elkem Microsilica®

Boknasundet Bridge

C4-26 Reference Project



OWNER/CLIENT:

Norwegian Public Road Administration,

Rogaland

CONSULTANT: Public Road Administration, Directory of Public

Roads, Dept. of Bridges
OR: Aker Entreprenør A/S

MAIN SPAN: 190 m SIDE SPANS: 2 x 97,5 m BUILT: 1989-90

CONCRETE VOLUME: LC60: 2500 m³
C55: 450 m³

C55: 450 m²
C45: 2100 m³

X DESIGN: (kg/m³) In the main span and in 62 meters of each side span,

LWA concrete grade LC60 was used. In the other parts of the bridge, concrete grades C45 and C55 were used.

LWC: Density of fresh LWC should not exceed 1950 kg/m³. Achieved characteristic compressive strength of LWC was 63.4 MPa.

In 1993 in situ cores from the bridge were investigated. The results of the tests indicate a dense concrete with good durability.

	CONSC	LIANI:
	MAIN S SIDE S BUILT:	PANS:
	MIX DESIGN:	(kg/m³
	Cement P30-4A (CEM	
25	Microsilica	25
Thondhalm	Sand 0-8 mm	680
Alectand	Liapor 8, 4-8 mm	334
Ulleformer	Liapor 8, 8-16 mm	265
Barren	Rescon P	4.3
OSLO	Rescon HP (s)	4.0
Hargesund	Rescon L	0.15
Camenger Kristenssend	Water	190

CONCRETE

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JUNE 2000

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