

## Boknasundet Bridge

C4-26  
Reference  
Project



**OWNER/CLIENT:** Norwegian Public Road Administration, Rogaland

**CONSULTANT:** Public Road Administration, Directory of Public Roads, Dept. of Bridges

**CONTRACTOR:** Aker Entreprenør A/S

**MAIN SPAN:** 190 m

**SIDE SPANS:** 2 x 97,5 m

**BUILT:** 1989-90

**CONCRETE VOLUME:**

LC60:	2500 m <sup>3</sup>
C55 :	450 m <sup>3</sup>
C45 :	2100 m <sup>3</sup>



**MIX DESIGN:** (kg/m<sup>3</sup>)

Cement P30-4A (CEM1)	430
Microsilica	25
Sand 0-8 mm	680
Liapor 8, 4-8 mm	334
Liapor 8, 8-16 mm	265
Rescon P	4.3
Rescon HP (s)	4.0
Rescon L	0.15
Water	190

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/m<sup>3</sup>. 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.