

Støvset Bridge

C4-25
Reference
Project



OWNER/CLIENT:
CONSULTANT:
CONTRACTOR:
MAIN SPAN:
SIDE SPANS:

Norwegian Road Authorities, Nordland
Johs. Holt A.S (Hjellnes COWI AS)
Selmer A.S
220 m (middle part built of LWAC- approx. 145 m)
2 x 100 m



Mix design, LWC	kg/m ³
Cement HS65	425
Microsilica	30
Årdal sand 0-8 mm	685
Liapor 8, 4-16 mm LWA	520
Total water	194
Plasticizer, Betokem P	1.0
Superplasticizer, Betokem SP 40	4.5
AEA, Betokem L(T) 1:9	1.5
Water/Binder-ratio	< 0.40

CONCRETE SPECIFICATION/VOLUME:

ND concrete grade C55 in the side spans and part of the main span and LWC grade LC55 in the middle part of the main span. Total volume of concrete was about 8000 m³, of which about 950 m³ of this was LWC.

Characteristic 28 days cube strength of 59.3 MPa was achieved. Fresh density at mixing plant was 1980 kg/m³. Cores taken from structure for in situ density showed 1920 kg/m³