

Bergsøysundet Bridge

C4-22
Reference
Project



OWNER/CLIENT:
CONSULTANTS:
CONTRACTOR:

Norwegian Road Authorities, Møre & Romsdal

Concrete: Johs. Holt A/S / Steel: Veritec
Aker Verdal a.s / Aker Entreprenør a.s /
Pontoons by Norwegian Contractors a.s

CONCRETE:
TOTAL LENGTH:
BRIDGE LENGTH:
TRUSSWORK:
PONTOONS:
CONCRETE VOLUME,
PONTOONS:
BUILT:

Norwegian Contractors a.s, Hinna / Aker Betong,
931,3 m
844,8 m
W x H = 11,7 x 7,5 m
7 pcs: W x H x L = 20 m x 34 m x 6.1 m (two at L=7,0 m)
4,800 m³ (LWC) / ground attachments: 4,000 m³
1991-92



MIX DESIGN:

<u>Dry Weight</u>		<u>(kg/m³)</u>
Cement	P30-4A(CEM1)	430
Microsilica		22.5
Liapor 8 LWA	4-8 mm	265
Liapor 8 LWA	8-16 mm	325
Water for wetting LWA		35
Sand	0-5 mm	670
Betokem SP 40	40%	7.0
Betokem L(T)	1:9	10.0
Water (excl. absorption)		158

Bergsøysund bridge is a floating bridge consisting of a continuous 830 m steel frame and 7 floating pontoons made of high strength grade LC55 LWA-concrete. The distance between the pontoons is 105,5 m.

Uniquely, the bridge is only anchored at the endpoints, taking transverse forces as compression or tension in the arch.