



CONCRETE MIX DETAILS

CUSTOMER: Unbrako Precast Ltd

REFERENCE: RM/VALE/03/21/011

Supplying Plant: Langar

SITE: Langar

DATE: 15/03/2021

This mix design is based on values supplied by Unbrako Precast Ltd.
Vale Concrete will not be held responsible for any issues that may arise with this mix design if externally sold.

Dear Sirs. Please find below mix details for concrete to be supplied from the above plant:

QS12

SPECIFICATION	BS 8500:2015 Parts 1 & 2		
CUSTOMER MIX DESCRIPTION	C45/55 Precast		
CEMENT TYPE	Cem 1		
SLUMP mm	S3		
MAX. AGG. SIZE mm	20mm		
SPECIAL SPECIFICATION			
MIN & MAX REQUIREMENTS			

DESIGN	S.S.D. MASS kg/m ³		
MIX DESCRIPTION	C45/55 Precast		
TOTAL CEMENT CONTENT	420		
CEMENT	420		
REPLACEMENT	0		
REPLACEMENT %	0%		
AGGREGATE 1	730		
AGGREGATE 2	1150		
AGGREGATE 3	0		
WATER	143		
ADMIXTURE 1 l/m ³	2.1		
ADMIXTURE 2 l/m ³	0		
FREE W/C RATIO	0.34		
% FINE AGGREGATE	39%		

MATERIALS	SUPPLIER	SOURCE	SIZE / TYPE	COMMENTS
CEMENT	Cemex	Rugby	Cem 1	EN197
REPLACEMENT	Cemex	Rugby	C11B-V	EN197
ADDITION				
AGGREGATE 1	Cemex	Swinderby	0-4mm	EN12620
AGGREGATE 2	Tarmac	Dene	4-20mm	EN12620
AGGREGATE 3	Tarmac	Dene	4-10mm	EN12620
ADMIXTURE 1	Oscrete	Bradford	Alphaflow 420	EN934
ADMIXTURE 2				

The above mixes are designed to comply with BS 8500 (unless agreed with the customer) and our conditions of sale.

This mix design certificate is for illustrative purposes only and is based upon current production and may change subject to material variations.

Yours faithfully
for and on behalf of
VALE CONCRETE