

# FUGRO TECHNICAL SERVICES LIMITED

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# MaterialLab

Report No. : 186527CH190594



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## Test Report on Chemical Analysis of Hardened Concrete

### Information Supplied by Client

Client : C.M. Wong & Associates Ltd.  
Client's address : 1104, Universal Trade Centre, 3-5A Arbuthnot Road, Hong Kong  
Project : Structural Condition Survey at Good Year Industrial Building,  
No.119-121 How Ming Street, Kwun Tong  
Sample description : One sample of hardened concrete (Powder drilling)  
Client sample ID. : C0301  
Sampling location : 3/F Beam  
Depth of sample from concrete surface : 5~80 mm  
Date of sampling : 16/03/2019  
Tests required : Cement content and aggregate/cement ratio (by CaO determination)

### Laboratory Information

Laboratory sample ID. : CH190594/1 (SD1901144) (PE190153)  
Date of receipt of sample : 20/03/2019  
Date test commenced : 20/03/2019  
Date test completed : 09/04/2019  
Test methods used : CS1: 2010 Section 21.6.4, 21.6.6 & 21.6.7

### Results :

1. Pulverized fuel ash (PFA) in the sample.....	Present/Not detected
2. Testing assumptions :	Type I
Type of aggregate .....	62.0 %
CaO in the cement used .....	0.2 %
CaO in the aggregate used .....	23.0 %
Combined water of hydration of cement in the hardened concrete .....	
By assay :	
CaO content by mass of sample .....	8.3 %
∴ Cement content by mass of sample .....	13.1 %
Aggregate/cement ratio .....	6.4

Supervised by : H.Y. Chan

Certified by :

Approved Signatory: AU Kwok Man, Bruce  
Assistant Manager - Chemical Laboratory

Date

\*\* End of Report \*\*

Note : This report refers only to the sample(s) tested.