

# CONCRETE MASONRY FIRE RESISTANCE

ASTM C 140/ C 129/ C 90

PROJECT	AL-ASKAR TRADING & CONT. CO.	DATE	7-Jan-2018
CLIENT	AL-ASKAR TRADING & CONT. CO.	REF. No.	K/QC- 2289
LOCATION	DAMMAM, KINGDOM OF SAUDI ARABIA	Class#	WITH INSULATOR

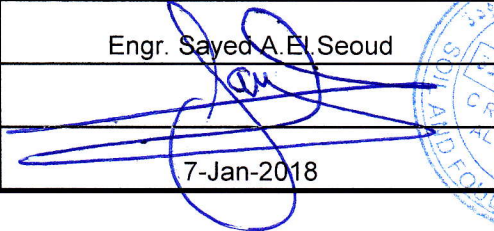
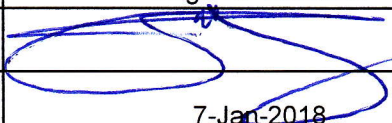
## FIRE RESISTANCE RATING

Sample No.	A	B	C	Average	Concrete Masonry Handbook
Net area (mm <sup>2</sup> )	42980	42500	42873	42927	
Net Volume (mm <sup>3</sup> )	8596000	8500000	8574600	8585300	
Equivalent Thickness (mm)	107.45	106.25	107.18	107.32	
Equivalent Thickness (in)	4.23	4.18	4.22	4.23	
Fire Resistance Rating ( t )	2 hrs 11 mins				

### REMARKS:

Test results were based on the samples submitted

Based on the test results and the type of aggregate (limestone), the specimens tested can resist fire for a minimum period of **2 hrs 11 mins** as per Table 3.3.7 of Concrete Masonry Handbook.

Test Prepared by:		Checked by:	
Name	Engr. Sayed A. El Seoud	Name	Engr. R. Tolentino
Signature		Signature	
Date	7-Jan-2018	Date	7-Jan-2018

