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JOINT QUALIFICATION FOR VARIOUS SOCKETS

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ACES Client	Qatar German Pipes W.L.L. (QGPC)	Report No.	TMR19054293
Owner	Abdulla Salem Al Sulaiteen	Date Reported	04-11-19
PMC	N/A	Sample No.	TMS19026041
Project Client	ASHGHAL APPROVAL	Request No.	TMQ19016829
Consultant	N/A	Client Reference	Full paymnet in advance
Contractor	N/A	Project No.	-
Project Name	Private		

Sample Description	PRC Manhole with Various Socolot	Sample Located By	N/A
Source	N/A	Sampled By	ACES' Rep.
Sample Location	Qatar German Pipes W.L.L. (QGPC)	Sampling Date	22-10-19
Sample Reference	N/A	Sampling Cert.	N/A
Lot No.	N/A	Sampling Method	-
Lot Size	N/A	Sample Size	See Below

Initial Sample Prep.	-	Sample Brt. In By	ACES' Rep.
Sample Preparation	-	Date Received	22-10-19
Test Method	BSEN 14636-2 Annex F (BSEN 295-3, BSEN 295-1, DIN54815-2)	Date Tested	22-10-19
Test Method Var.	Nil	Tested By	Bles / Sunday

Note: N.P. indicates information not provided by the Client N/A : Not Applicable

Test Result:

Description	Value	Units	Observation
<b>EXFILTRATION TEST</b>			
Test Duration	15	Minutes	Tested with 2 dgrees of deflection with plastic corrugated pipe connected to QGPC made GRP socket and found no signs of Leakage, damp patches or droplets. So the manhole has passed the test
Test Pressure (Positive)	1	Bar	
Test Media	Water		
<b>INFILTRATION TEST</b>			
Test Duration	15	Minutes	Tested with 2 dgrees of deflection with plastic corrugated pipe connected to QGPC made GRP socket and found no signs of damage to its components nor exhibit a change in pressure So the manhole has passed the test
Test Pressure (Negative)	-0.8	Bar	
Test Media	Air		

Conclusion : Tested with 2 dgrees of deflection on Plastic Corrugated Pipe connected to the manhole which was fixed with Clay Pipe, HDPE Solid Wall Pipe, UPVC Pipe and GRP Pipe and found no signs of damage to its components nor exhibit a change in pressure so the manhole has passed the test. so QGPC PRC manhole can be connected to Corrugated Pipe, Clay Pipe, HDPE Solid Wall Pipe, UPVC Pipe and GRP Pipe.

Remarks :The test results related only to the specimen(s) tested.

:This test report shall not be reproduced except in full, without written approval from ACES.

:Tested by ACES technicians using (QGPC) facilities.



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Eng. Ghaleb AL Zubir  
Deputy Branch Manager



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## Report on Compressive Strength of Concrete Cubes

ACES Client	: Qatar German Pipes W.L.L. (QGPC)	Report No.	: TCR19043930
Owner	: Abdulla Salem Al Sulaiteen	Date Reported	: 19-11-19
Project Client	: ASHGHAL APPROVAL	Request No.	: TCQ19043930
PMC	: N/A	Sample No.	: TCS19043930
Consultant	: N/A		
Contractor	: N/A		
Project No.	: -		
Project Name	: Private		
Structure Reference	: Manhole Benching Cement Concrete Cube For 1200mm		
Source of Material	: -	No. of Cubes Tested	: 5
Place of Sampl./Cast.	: Site	Nominal Size	: 150 x 150 x 150 mm
Date of Sampling	: 03-07-19 Time : N.P.	Method of Compaction	: MANUAL
Date of Casting	: 03-07-19 Time : N.P.	Equip.of Compaction	: COMPACTING BAR
Sampling Method	: BS EN 12350-1:2009	Sampled By	: CONTRACTOR'S REP.
Curing/Storage (Site)	: BS EN 12390 - 2:2009	Cubes Prepared By	: CONTRACTOR'S REP.
Certificate Attached	: Sampling(NP), Making(NP), Curing(NP)	Sampling Certificate No.	: N.P.
Sample Rcvd. Date	: 18-11-19 Time : 12:00	Dimensions	: Actual
Condition of Cube	: Good	Volume Determination	: By Calculation
Removal of Fins	: Nil	Actual Test Age (Days)	: 138
Curing/Storage (Lab)	: BS EN 12390 - 2:2009	Rqrd Test Age (Days)	: 138
Moisture Condition	: Moist	Sample Brought In By	: CONTRACTOR'S REP.
Test Method	: BS EN 12390-3:2009: Annex B	Date Tested	: 18-11-19
Test Method Var.	: Nil	Tested By	: SAMI

Spec. No.	Client Cube Reference	Dimensions (mm)			Mass as Received (kg)	Density as Received (kg/m <sup>3</sup> )	Max. Load at Failure (kN)	Comp. Strength (N/mm <sup>2</sup> )	Type of Fracture
		Xm	Ym	Zm					
1	1	150	150	150	7.937	2350	1121.3	49.8	Satisfactory
2	2	150	150	150	7.881	2340	1181.7	52.5	Satisfactory
3	3	150	150	150	7.822	2320	1200.3	53.3	Satisfactory
4	4	150	150	150	7.911	2340	1158.3	51.5	Satisfactory
5	5	150	150	150	7.843	2320	1138.1	50.6	Satisfactory

Remarks : -

Spec. Strength (N/mm<sup>2</sup>) : 40



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Eng. Ghaleb Alzubi  
Head of Materials Department

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## Report on Compressive Strength of Concrete Cubes

ACES Client	: Qatar German Pipes W.L.L. (QGPC)	Report No.	: TCR19041169
Owner	: Abdulla Salem Al Sulaiten	Date Reported	: 19-11-19
Project Client	: ASHGHAL APPROVAL	Request No.	: TCQ19041169
PMC	: N/A	Sample No.	: TCS19041169
Consultant	: N/A		
Contractor	: N/A		
Project No.	: -		
Project Name	: Private		
Structure Reference	: Manhole Benching Cement Concrete Cube 1500mm		
Source of Material	: -	No. of Cubes Tested	: 5
Place of Sampl./Cast.	: Site	Nominal Size	: 150 x 150 x 150 mm
Date of Sampling	: 03-07-19 Time : N.P.	Method of Compaction	: MANUAL
Date of Casting	: 03-07-19 Time : N.P.	Equip.of Compaction	: COMPACTING BAR
Sampling Method	: BS EN 12350-1:2009	Sampled By	: CONTRACTOR'S REP.
Curing/Storage (Site)	: BS EN 12390 - 2:2009	Cubes Prepared By	: CONTRACTOR'S REP.
Certificate Attached	: Sampling(NP), Making(NP), Curing(NP)	Sampling Certificate No.	: N.P.
Sample Rcvd. Date	: 16-10-19 Time : 09:30	Dimensions	: Actual
Condition of Cube	: Good	Volume Determination	: By Calculation
Removal of Fins	: Nil	Actual Test Age (Days)	: 105
Curing/Storage (Lab)	: BS EN 12390 - 2:2009	Rqrd Test Age (Days)	: 105
Moisture Condition	: Moist	Sample Brought In By	: CONTRACTOR'S REP.
Test Method	: BS EN 12390-3:2009: Annex B	Date Tested	: 16-10-19
Test Method Var.	: Nil	Tested By	: Arafath

Spec. No.	Client Cube Reference	Dimensions (mm)			Mass as Received (kg)	Density as Received (kg/m <sup>3</sup> )	Max. Load at Failure (kN)	Comp. Strength (N/mm <sup>2</sup> )	Type of Fracture
		Xm	Ym	Zm					
1	1	150	150	150	7.841	2320	1141.7	50.7	Satisfactory
2	2	150	150	150	7.965	2360	1170.9	52.0	Satisfactory
3	3	150	150	150	7.790	2310	1205	53.6	Satisfactory
4	4	150	150	150	7.943	2350	1156.1	51.4	Satisfactory
5	5	150	150	150	7.915	2350	1189	52.8	Satisfactory

Remarks : -  
Spec. Strength (N/mm<sup>2</sup>) : 40



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Head of Materials Department

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