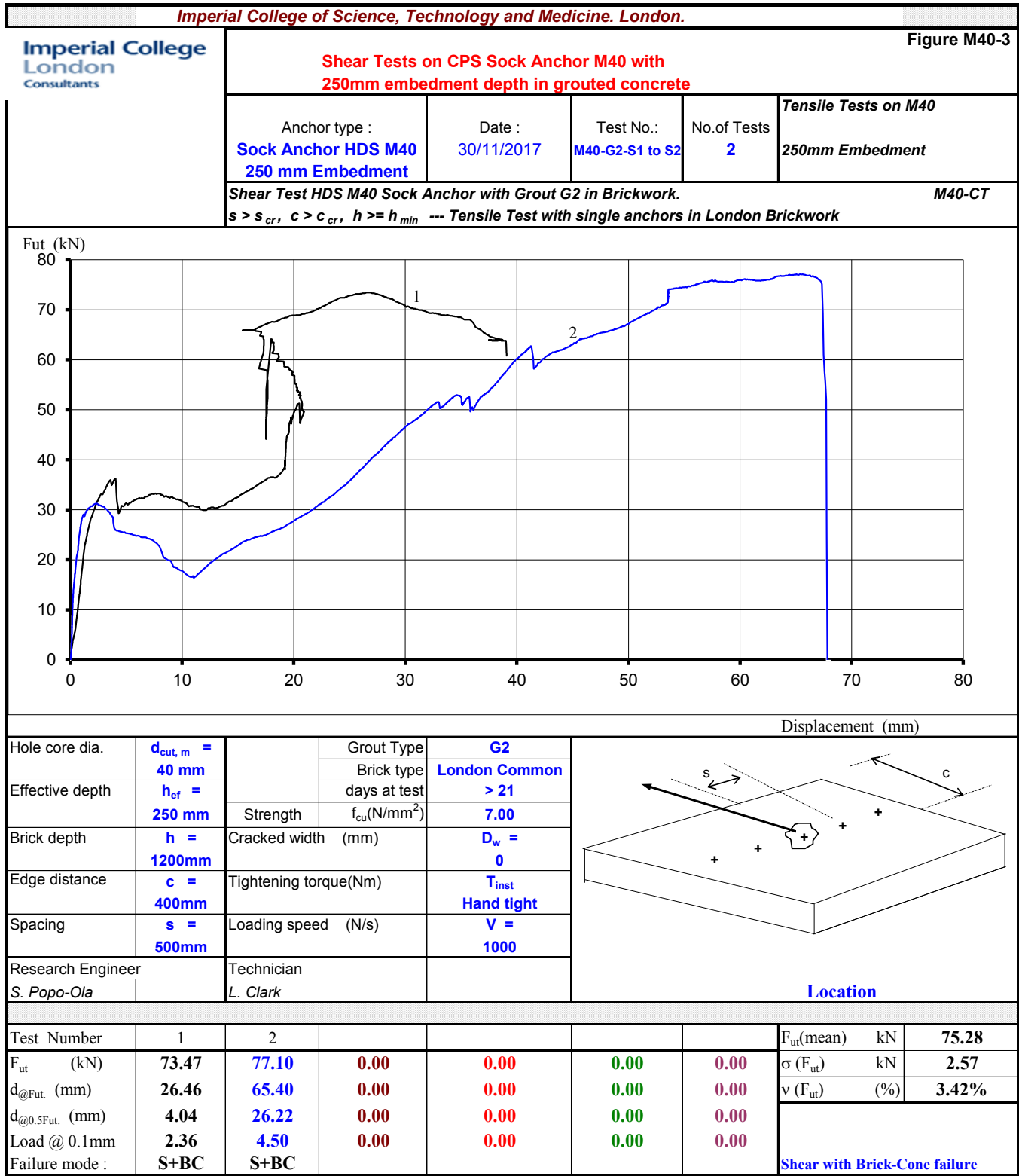


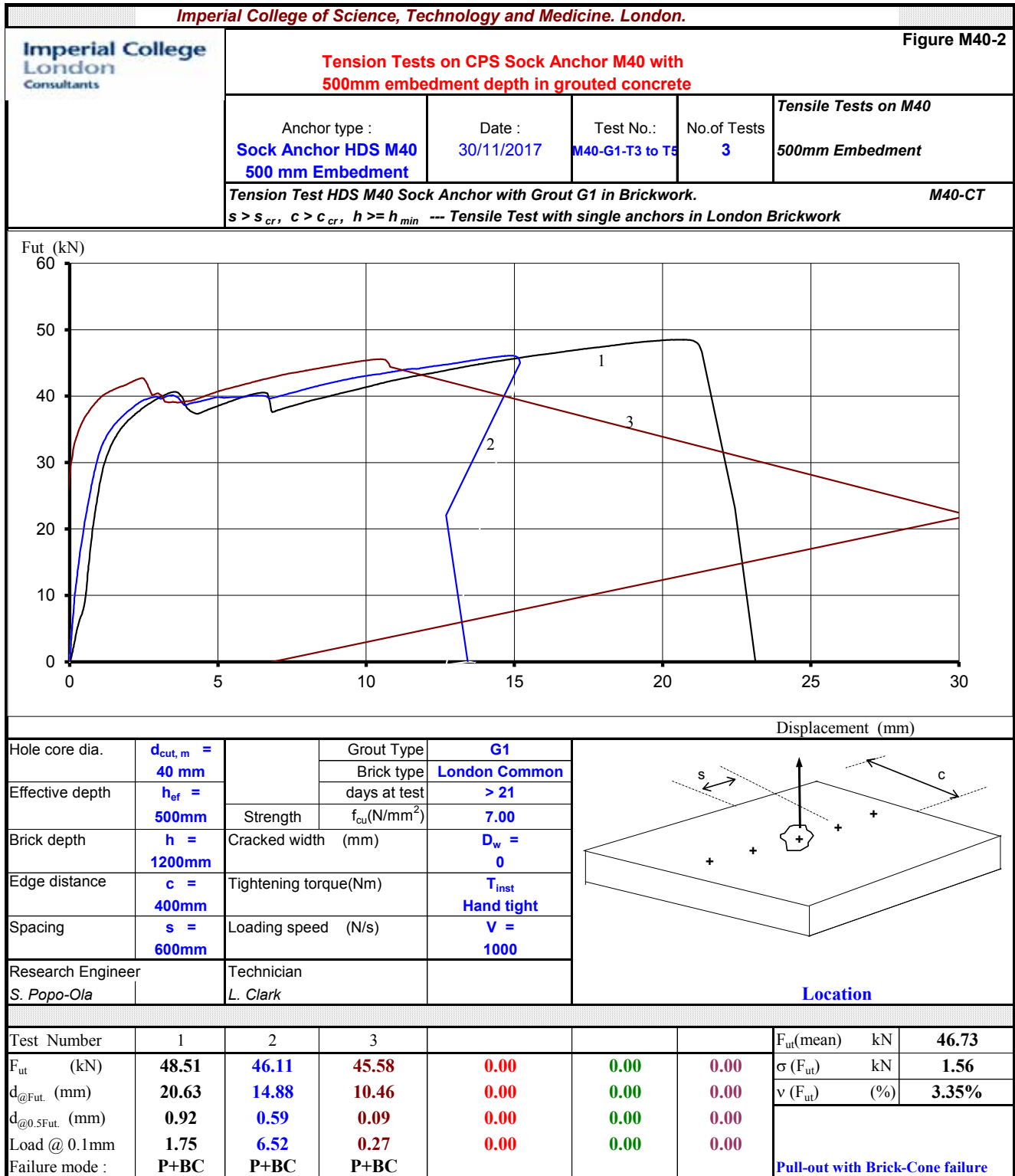
## HEAVY DUTY INJECTION SOCK ANCHOR TEST RESULTS

### SHEAR TESTS 250MM EMBEDMENT



## HEAVY DUTY INJECTION SOCK ANCHOR TEST RESULTS

### TENSILE TESTS 500MM EMBEDMENT



Patent Pending

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Made in the EU

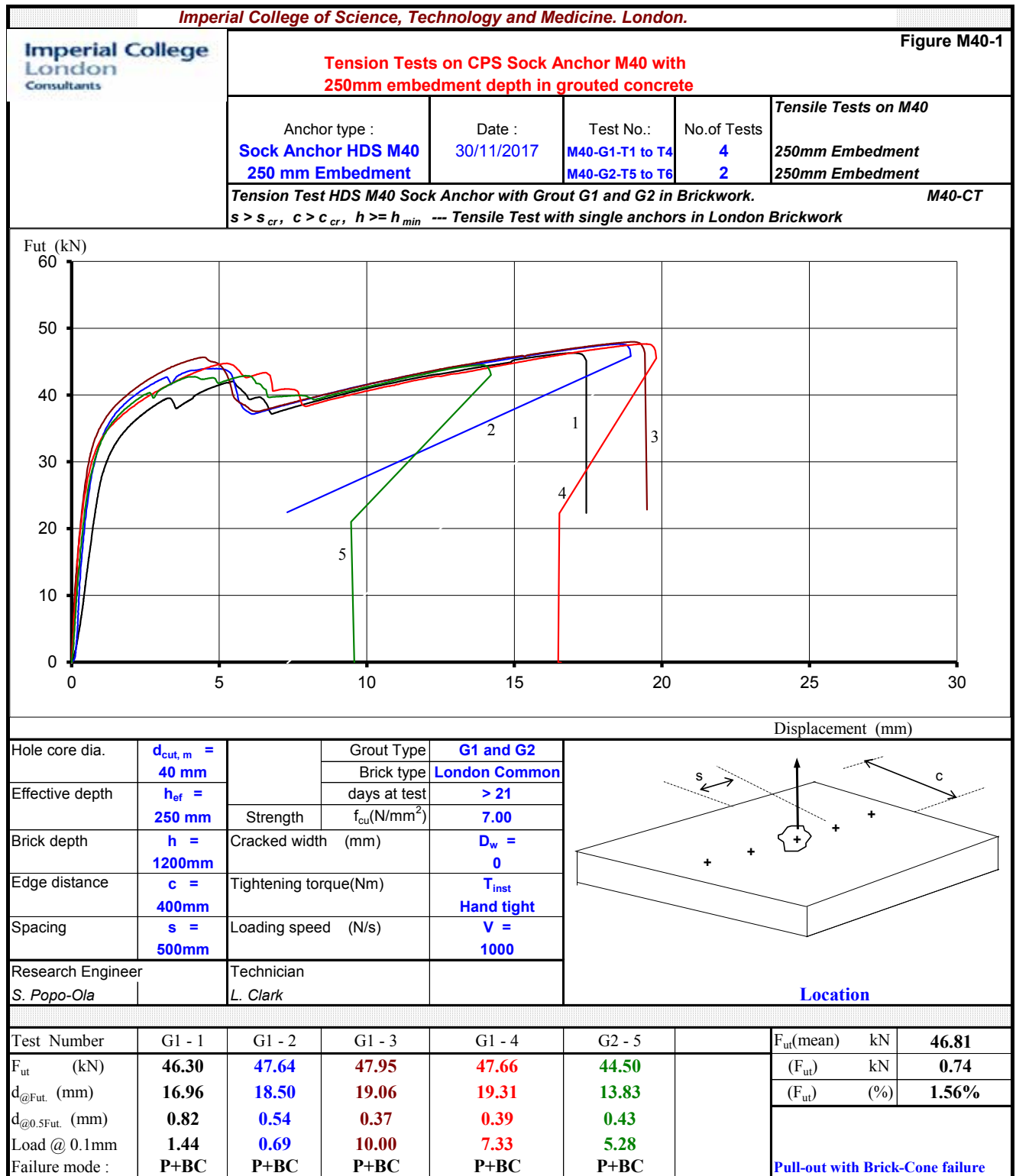
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## HEAVY DUTY INJECTION SOCK ANCHOR TEST RESULTS

### TENSILE TESTS 250MM EMBEDMENT



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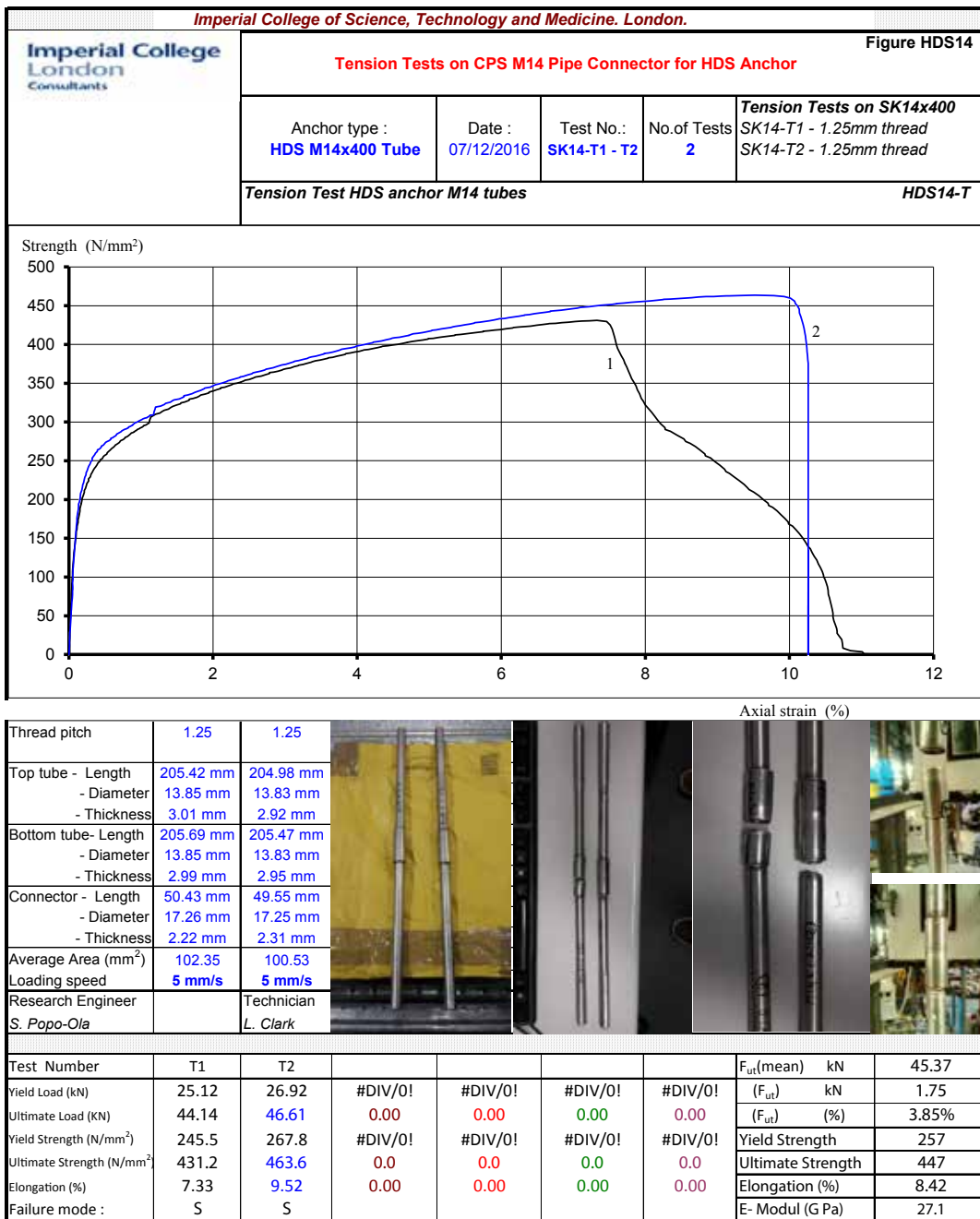
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## HEAVY DUTY INJECTION SOCK ANCHOR TEST RESULTS

### COMPONENT TESTS



Summary of connection components testing at the Imperial College London.

Test ref.	Area (mm <sup>2</sup> )	Length (mm)	Failure load (kN)	Yield load (kN)	Failure Strength (MPa)	Yield Strength (MPa)	Max Axial Elongation (%)	Failure mode
M14x1.25	100.1	410	45.38	25.9	448.3	255.65	9.52	Top bar breakage

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## HEAVY DUTY INJECTION SOCK ANCHOR TEST RESULTS

Test programme for CPS HDS M40 Sock Anchors grouted (G1 and G2) in Brickwork

Test Ref.	Test type	Anchor depth	Grout type	Face of Brick	Failure load	Date of test	Failure mode	Manufacturer Ref.
T40-G1-1	Tension	250	Grout-1	1	46.30	30/11/2017	P + BC	HDS-M40-G1-T1
T40-G1-2	Tension	250	Grout-1	1	47.64	30/11/2017	P + BC	HDS-M40-G1-T2
T40-G2-1	Tension	250	Grout-2	1	44.50	30/11/2017	P + BC	HDS-M40-G2-T1
T-S40-G1-1	Tension	250	Grout-1	1	47.95	30/11/2017	P + BC	HDS-M40-G1-TS1
T-S40-G1-1	Tension	250	Grout-1	1	47.66	30/11/2017	P + BC	HDS-M40-G1-TS2
T40-G1-3	Tension	500	Grout-1	2	48.51	01/12/2017	P + BC	HDS-M40-G1-T3
T40-G1-4	Tension	500	Grout-1	2	46.11	01/12/2017	P + BC	HDS-M40-G1-T4
T40-G1-5	Tension	500	Grout-1	1	45.58	30/11/2017	P + BC	HDS-M40-G1-T5
S40-G2-1	Shear	250	Grout-2	2	73.47	30/11/2017	S + BC	HDS-M40-G2-S1
S40-G2-2	Shear	250	Grout-2	2	77.10	30/11/2017	S + BC	HDS-M40-G2-S1

P + BC: Pullout with Brickwork Cone failure

S + BC: Shear with Brickwork Cone Pryout failure

P: Pullout by hand failure

Drill Hole Size (mm)	Grout Consumption per linear metre	Metre per 20kg bag
32	0,8	15,5
37	1,1	11,6
40	1,3	9,9
45	1,6	7,8
50	2,0	6,3
55	2,4	5,2
60	2,8	4,4



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