Test Report

On-site test of fasteners

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Order number:	82686	**Date of test (yyyy-mm-dd):**	2026-05-20
PO n°:			

Customer information: Person requesting the tests		**Specifier information (company/person responsible for test specification):**	
Company:	Vital Energi Ltd	Company:	Vital Energi Ltd
Address:	Roman Road	Address:	Roman Road
Post code / City:	BB1 2LD / Blackburn	Post code / City:	BB1 2LD / Blackburn
Country:	United Kingdom	Country:	United Kingdom
Customer number:	0012383432	Customer number:	0012383432
Contact name:	Chris Roach	Contact name:	Chris Roach
Phone:	+447557853628	Phone:	+447557853628
E-mail:	Chris.Roach@vitalenergi.co.uk	E-mail:	Chris.Roach@vitalenergi.co.uk

Site information	
Jobsite name: Piccadilly Project	Site number:
Address: Sheffield Street	Post code / City: M1 2WD / Manchester

Fastener information	
Anchor family: Chemical anchor	
Anchor type: HIT-HY 270	Anchor / rod embedment depth [mm]: 200
Rod type: HAS-U A4	Anchor / rod size [mm]: 16x300
Sleeve type: HIT-SC 22	Sleeve length [mm]: 85

Base material information “non-standard” indicates that the anchor does not have a valid approval for the respective base material or that the base material cannot be fully defined.	
Base material: Masonry (non-standard)	
Masonry unit: Solid normal weight concrete brick	Plaster / Render thickness [mm]: 5
Unit dimensions (LxWxH) [mm]: 75x35x3	Unit strength [N/mm2]: 1.5
Joint material: Other / unknown	Joint thickness (vertical/horizontal joints) [mm]: 5/3

Test information	
Load direction: Tension	
Test purpose: Resistance Determination	
Test type: Proof-load (non-destructive)	Load duration [min]: 1
Number of fasteners to test: 5	Admissible displacement [mm]: -
Support bridge: with load bridge	Support spacing [mm]: 300
Measurement of displacement: No	Measurement of load at first movement: No
Test results to be evaluated: No	**Test method: -**

Installation information	
Fastenings installed by: Bradley Taylor	Installation date (yyyy-mm-dd) and time (hh:mm): 2026-05-18 11:00
Hole diameter [mm]: 16	Hole drilling method: Hammer drilling
Hole depth [mm]: 200	Hole cleaning: Manual cleaning
Tightening torque [Nm]: 1	Hole condition: Dry

Test equipment information	
Test equipment type: HAT-30	Gauge type: Digital
Equipment number: -	Gauge number (MANXXXX): MAN0189 30kN
Gauges smallest division [kN]: -	Gauge last calibration (yyyy-mm-dd): 2026-02-23

Test results

Test no.	Load [kN]	Displ. [mm]	Target load [kN]	Failure mode	Comments
1	1.5	-	1.5	No failure	
2	1.6	-	1.5	No failure	
3	1.8	-	1.5	No failure	
4	1.6	-	1.5	No failure	
5	3.5	-	1.5	No failure	

Load: "Failure load" in the case of tests to determine the resistance; or "Maximum load applied" in case of tests to validate the quality of installation.
Load-1: "Load at first movement", optional for tests to determine resistance according to BS 8539
Displ.: Total displacement under maximum load applied, optional for tests to validate quality according to BS8539.

Witnesses: Representatives of the client and/or the engineer requesting the tests

Company	Contact name	Function	Signature
Vital Energi Ltd	Chris Roach	Project Engineer	

Test carried out by

Company	Contact name	Signature
Hilti (Gt Britain) Ltd	Rogerson, Lyndsey	

Test information	
Test hours: 1	Travelling hours: 1

Important information

General

On-site tests of fasteners do not: evaluate suitability or adequacy of the fastener design; verify proper installation or compliance with approval requirements; establish ultimate capacity of tested fasteners (unless tested to failure); or address performance of untested fasteners. Testing is performed as a service by Hilti in support of its products, and is intended solely to provide information on the general suitability of the base material and/or assist in identification of gross installation errors of tested fasteners – it does not imply any agreement in or endorsement of the suitability or propriety of the test or the application, and is not intended for use in satisfying any project or regulatory requirements for on-site inspection. Refer to the Hilti Fastening Technology Manual for information on fastener design and performance. Proper installation of fasteners is critical – training is available on request – contact Hilti for information.

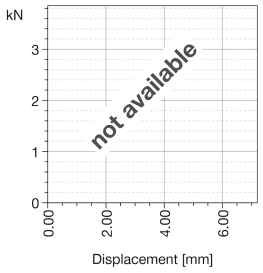
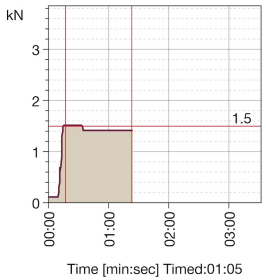
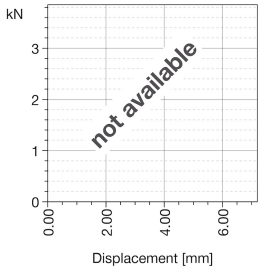
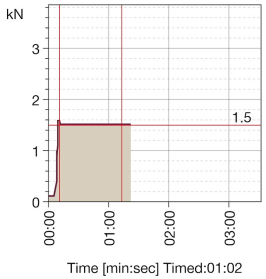
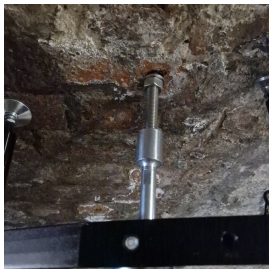
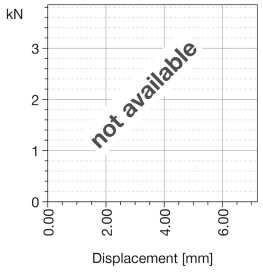
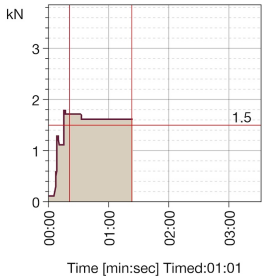
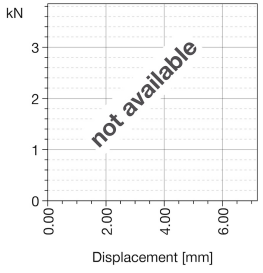
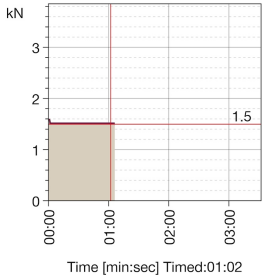
Execution of on-site tests

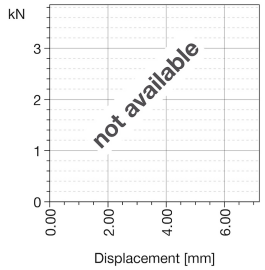
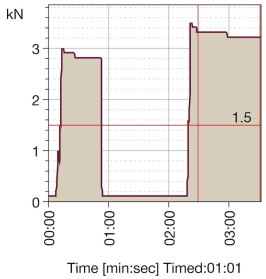
Test results only indicate the tested anchor(s) held the stated load for the time applied respectively the applicable failure load values. The location and number of tests as well as the loading parameters and the fasteners to be tested have been carried out according to the test conditions determined by Customer in the relevant Request Form. Hilti does not assess whether these test conditions are suitable for evaluation. Due to the possible variability of the base material and the various loading situations, the test results may not be representative of the entire construction project. On-site tests may damage the structure - Hilti is not responsible for the damage, or its restoration.

Evaluation of on-site tests

If no evaluation of data is requested, it is the Customer's sole responsibility to perform any evaluation required.

Graphs and Photos

Test no.	Load over displacement	Load over time	Photo			
1						
2						
3						
4						

5						

Would you like to provide a short feedback about Hilti's Anchor On-Site Testing Service?
Use this LINK or scan the QR code below.
Thank you, your feedback is highly appreciated!