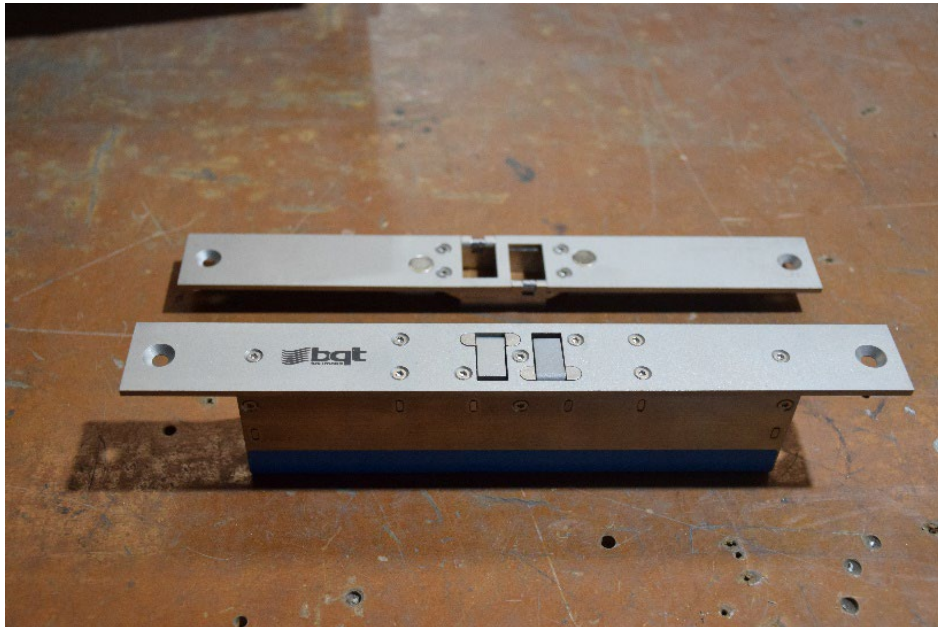

TEST REPORT



LOCKSETS AND HARDWARE FOR DOORS AND WINDOWS



CLIENT – BQT SOLUTIONS

PRODUCT – YD30D COBALT DOUBLE/SINGLE SIDELOAD LOCK

TESTED BY

AZUMA DESIGN PTY LTD

AZT0293.24

NATA ACCREDITED LABORATORY NO. 15147

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Test results in this report are relevant only to the sample tested.

1 Objective

To test the sample to AS4145.2 Locksets and Hardware for Doors and Windows - Mechanical Locksets for Doors and Windows in Buildings. Only the tests that are applicable to this type of sample will be completed.

2 Test Sample Description

2.1 General

Model No./Name	YD30D Cobalt Double/Single Sideload Lock
Customer	BQT Solutions
Address	Unit 4, 101 Diana Drive, Wairau Valley, Auckland, 0627, New Zealand
Azuma Testing Number	AZT293.24
Date of Test	29/05/2024
Date Completed	03/07/2024
Test Sample Description	The YD30D is a motor driven low voltage electric lock. There are two variants, a single deadbolt and a double deadbolt. The deadbolts rotate into position using two independent motors

3 Testing Completed

3.1 Result Summary

Requirement – Procedure	Rating	Result
C6.1 Resistance of bolt to end pressure	S8	Pass
C6.13 Resistance of bolt to horizontal impact	S8	Pass
C6.15 Resistance of bolt to horizontal static force	S8	Pass
C6.20 Resistance of deadbolt to sawing	S8	Pass
3.4.4 - B6.3 Projecting and retracting the deadbolt by test key mechanism	D8	Pass

4 Test Results

4.1 Resistance of Bolt to End Pressure

Requirement	C6.1
Result	Pass
Rating	S8
Remarks	The bolt resisted the designated force of 1200 N with no damage. At customer request, the deadbolt was taken to 4237.2 N, at which point the faceplate deformed

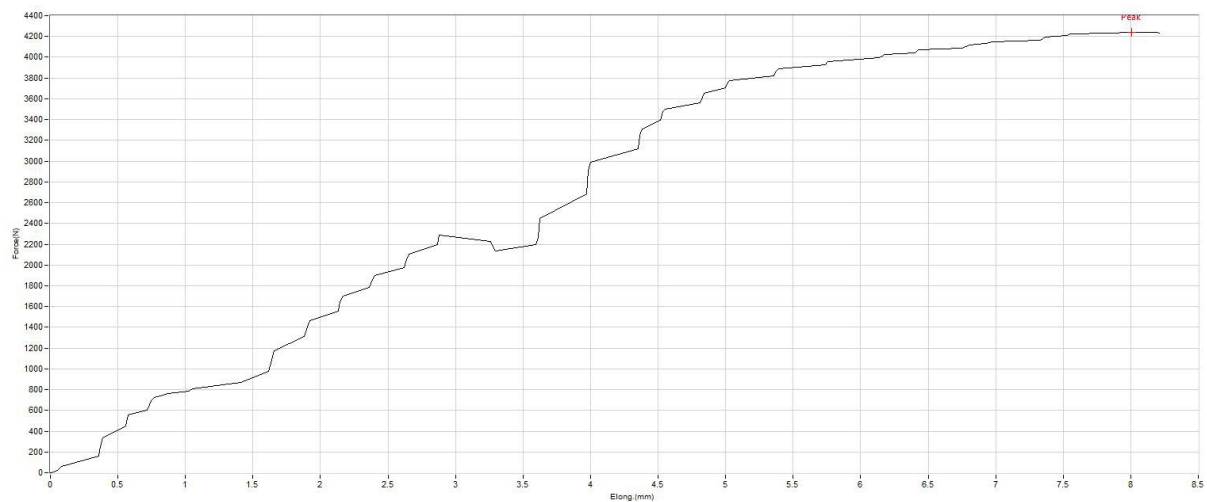


Figure 1: Graph depicting force over elongation

4.2 Resistance of Bolt to Horizontal Impact

Test Method	C6.13		
Blows Required	8		
	Force	Result	Manipulation
Blow #1	60 J	Pass	Pass
Blow #2	60 J	Pass	Pass
Blow #3	100 J	Pass	Pass
Blow #4	100 J	Pass	Pass
Blow #5	100 J	Pass	Pass
Blow #6	100 J	Pass	Pass
Blow #7	160 J	Pass	Pass
Blow #8	160 J	Pass	Pass
Result	Pass		
Rating	S8		
Remarks	Due to the construction of the deadbolt, all impacts were deflected, and the deadbolt remained engaged		

4.3 Resistance of Bolt to Horizontal Static Force

Requirement	C6.15
Result	Pass
Rating	S8
Remarks	The deadbolt remained engaged at a force of 6 kN. No damage to specimen

4.4 Resistance of Deadbolt to Sawing

Requirement	C6.20
Time of attack	5 minutes
Result	Pass
Rating	S8
Remarks	Deadbolt resisted a 5-minute attack with a padsaw blade



Figure 2: Showing both the faceplate deformation from C6.1 and the sawblade cut from C6.20

4.5 Projecting and Retracting the Deadbolt by Test Key Mechanism

Test Method	3.4.4 - B6.3
Cycles	80,000
Result	Pass
Rating	D8
Remarks	Product completed 80,000 key operation cycles receiving a rating of D8. Minimal wear on deadbolt/strike plate

5 Signatories

Signatory Name: Ryan Pavey

Signature: 

Date: 08/07/2024

END OF REPORT