

# 料試驗有限 A.E.S. DESTRUCTIVE AND NON-DESTRUCTIVE TESTING LTD.

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TEST REPORT (Tensile test of full-size fastener or fastener/nut assembly)

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Report №:

HTT-20-3863

Job №:

201126-02 #

Date of Test:

27-Nov-2020

Date of 1st Issue:

30-Nov-2020

Customer Name:

Fiable Fastener Limited

Customer Address:

15A and 16A on 2/F Block A, Energy Industrial Centre, 2 San Fui St., Yuen Long, N.T., Hong Kong

## Particulars of Unit-Under-Test (UUT)

Project:

Quality Test PO No:Test 88604201014

Product Form:

Stainless Steel Threaded Rod

**UUT Size:** 

M20 x 320 mm (length)

PO №:

88604201014

Thread Pitch:

Coarse

Mark:

Product Standard:

BS EN ISO 3506-1: 2009

Grade/Class:

A4-80

### **Test Information**

Working Artifact:

Universal testing machine (EQM237)

\*Test Standard:

BS EN ISO 3506-1: 2009

#### Test Result

t est result									
UUT Identity	NI №	d (mm)	$L_1$ (mm)	L <sub>2</sub> (mm)	$A_{\rm s,nom}$ (mm <sup>2</sup> )	A (mm)	R <sub>p0.2</sub> (MPa)	R <sub>m</sub> (MPa)	Fracture Location
D		20.0	190.69	217.16	245.00	26.5	714	830	free threaded length

\*Minimum value: 6.0

600 800

# **Terms and Symbols**

nominal thread diameter d  $L_1$ total length of fastener

 $L_2$ total length of fastener after fracture

 $A_{s,nom}$  nominal stress area

elongation after fracture  $(A = L_2 - L_1)$  $R_{\rm p0.2}$ stress at 0.2 % permanent strain

tensile strength

Tested by: LEUNG Kin Man

Approved Signatory:

■KWOK Cheuk Lun □YUEN Chung Kan ☐YIU Yim

--- End of Report ---

\* Information, where applicable, was submitted by the customer. Where no thread pitch is provided, coarse pitch is assumed.

<sup>+</sup> The tensile test also fulfils the requirements of those applicable parts of BS EN 10002-1: 2001 and BS EN ISO 6892-1: 2009.

<sup>#</sup> Information, if reported, was either taken from the product standard or given by the customer.

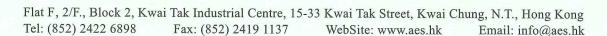
Strength, if presented, would be calculated using nominal stress area in thread unless otherwise specified in product certificate or given by the customer.

The test was conducted at room temperature in AES® Workshop. The test results contained herein relate only to the Unit-Under-Test (UUT).

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TR-34 (R2)