

# RESULTS OF EYEBOLT TESTS

AT

# Juniper Street 1

Liverpool L20 8EL

21/10/2020

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## OVERVIEW

The building known as Juniper Street 1 has taken the provision for safety equipment (Eyebolts) to be installed to facilitate cleaning of the glazing also maintenance work

**This system is: Eyebolts**

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## METHOD OF TESTING

### Introduction

All the "Eyebolts" which are to be used specifically for the purpose of Access and are therefore classed as "load-bearing", will be subjected to systematic testing to the specified capacity of 6kN

### Testing Procedures

All the testing works are to be carried out to the specifications laid down in the tender document and to Hydrajaws Ltd specifications for the "Portable Tension Tester", and will be in accordance with the testing for the requirements of BS 7883 : 2005 and BS EN 795 : 1997 "protection against falling from a height, Anchor devices - requirement and testing".

The portable "Tension tester" is a specialist piece of equipment designed for the accurate measurement of tensile loading strength of anchors and fixings i.e. screw studs, bolts, plugs and anchors in Concrete, Masonry, Steel and other construction Materials.

The meter is hydraulically operated and has a 0-10kN scale, which can be calibrated before use to a specific load.

Each Technician, once in the pre-determined place to start testing and having adhered to all A. C. O. P. rules and legislation, will begin the test procedures.

Using the Hydrajaws "Portable Tension Tester", which shall be placed in position, with the "bridge" over the eye of the bolt, the "draw rod" is then engaged (this is done by turning the handle in a clockwise direction). Once the "draw rod" engages with the eye bolt the test "proper" begins.

With the test rig in place and the load gauge clearly visible, to enable monitoring during the test, the operative slowly turns the handle until the required load pull is achieved 6kN ( Axial pull out force of 6kN ).

Once the pre-required capacity of 6kN has been achieved a "settling period" will be allowed, the exact time to be discussed on site with the structural engineer (this period is to-be 15 seconds as per the new legislation). When this period is over, if the pressure gauge is still reading the required 6kN then the "eyebolt" has satisfactorily passed the test, if however during the test the "eyebolt" pulls out, snaps off, cracks or during the "settling period" the pressure on the gauge drops then an instant failure is awarded.

Periodic examination of Through Bolts:

It is a requirement of BS 7883:2005 *Code of Practice for the design, selection use and maintenance of anchor devices conforming to BS EN795*, that all anchor devices for fall arrest should be re-examined at least once every twelve months by a competent person.

"Examination", in the case of anchor devices fixed through cavity structures, usually\* means a visual examination for corrosion and to check that the threaded rod attached to the eyebolt is fully engaged with the nyloc type nut on the remote face plus a check that the eyebolt cannot be unscrewed by hand.

The surrounding structure must be inspected for damage, cracking etc. All anchor devices were tightened to a torque of 35Nm which serves as a suitable proof test.

If all checks are satisfactory a new label indicating the date of next examination should be attached at or adjacent to the eyebolt. Any anchor devices found not to satisfy any of these requirements should be withdrawn from service, which should be shown by a suitable tag and the reasons for non-compliance reported to building owner for investigation by a competent person and the necessary remedial action.

\* The first time a through fixed installation is examined by a new examining body it is recommended by BS 7883:2005 that 5% and at least 3 of the installed anchor devices are disassembled for examination to check that all components are stainless steel and correctly assembled.

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## TEST RESULTS

### Recording of Test Results

Each technician is fully conversant with report procedures and has been issued with a "specifically designed for the job" record sheet. As each bolt is tested the results are recorded and saved.

Please refer to following sheets for results.

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BUILDING:	Juniper Street 1		
LOCATION:			
NAME OF INSPECTOR:	Technician	Ryan Rogers	
Purchase order issued	D05PO003879545		

**A result shown in Kn is a hydrowjaw pull test. A result shown in Nm is a Torque test**

Date	Using Tester	Floor	Room	Equip No	Anchor Type	Visual Inspection	Tested To	PASS/ FAIL	Nest Test Date
21/10/2020	129	2	Loading bays	1	D-Ring	Pass	35nm	Pass	20/10/2021
21/10/2020	129	2	Loading bays	2	D-Ring	Pass	35nm	Pass	20/10/2021
21/10/2020	129	2	Loading bays	3	D-Ring	Pass	35nm	Pass	20/10/2021
21/10/2020	129	2	Loading bays	4	D-Ring	Pass	35nm	Pass	20/10/2021
21/10/2020	129	2	Loading bays	5	D-Ring	Pass	35nm	Pass	20/10/2021
21/10/2020	129	2	Loading bays	6	D-Ring	Pass	35nm	Pass	20/10/2021
21/10/2020	91	2	Open Area	7	Standard Eyebolt	Pass	6kn	Pass	20/10/2021
21/10/2020	91	2	Open Area	8	Standard Eyebolt	Pass	6kn	Pass	20/10/2021
21/10/2020	129	Ground	Open Area	9	D-Ring	Pass	35nm	Pass	20/10/2021
21/10/2020	129	2	Open Area	10	D-Ring	Pass	35nm	Pass	20/10/2021
21/10/2020	129	2	Loading bays	11	D-Ring	Pass	35nm	Pass	20/10/2021
21/10/2020	129	2	Loading bays	12	D-Ring	Pass	35nm	Pass	20/10/2021
21/10/2020	129	2	Loading bays	13	D-Ring	Pass	35nm	Pass	20/10/2021
21/10/2020	129	2	Loading bays	14	D-Ring	Pass	35nm	Pass	20/10/2021

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