

Date of Issue: 8/11/2022

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**STRUCTURAL DESIGN CERTIFICATE – No: EOL-SC159-2022**

**Job No: 21S-641**

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### Details

**Location:** Australia and New Zealand

**Description:** SHS Cleats

**Subject:** Structural design certification for SHS Cleats

I **Huu Nghia Mai** a registered professional engineer of Australia MIE Aust, **NER 3824742** hereby certify:

That the structural elements of the detailed drawings submitted by EOL Consulting Engineers (attached and noted below) for a numerous variations of SHS cleats are adequate and have been designed and installed in accordance with the Australian standards, building codes, industry engineering practice and are generally in accordance with the following codes and council policies listed below;

- AS4100-2009 Steel Structures

I am a qualified structural engineer with corporate membership of the Institute of Engineers Australia (**MIE Aust, Struct**), and Board of Professional Engineers QLD having appropriate experience and competence in the related field, with my further qualifications being:

**(B.Eng) (CPEng) NER RPEQ 21782.**

Furthermore, I am appropriately qualified and experienced to provide the certification for this component of the project.

### Referenced plans and reports

Plans which are the subjects of this certificate are referenced below. (Attached are the drawings and reports of all certified works as required):

**The detailed plans include the following:**

**Job No: 21S-641**

**Drawing/Plan No.**

21S-641-01	Cover Sheet & Drawing Index	Rev A
21S-641-02	SHS - Timber Beam Cleat Types	Rev A
21S-641-03	SHS - Timber Beam Cleat Details	Rev A
21S-641-04	SHS - Timber Beam Channel Details – 75, 89, 100mm SHS	Rev A
21S-641-05	SHS - Timber Beam Channel Details – 125, 150mm SHS	Rev A
21S-641-06	SHS - Timber Beam Top Plate Cleats	Rev A
21S-641-07	SHS - Timber Beam Top Plate Channel Details – 75, 89, 100mm SHS	Rev A
21S-641-08	SHS - Timber Beam Top Plate Channel Details – 125, 150mm SHS	Rev A
21S-641-09	SHS - PFC Cleat Details	Rev A
21S-641-10	SHS - PFC Channel Details – 75, 89, 100mm SHS	Rev A
21S-641-11	SHS - PFC Channel Details – 125, 150mm SHS	Rev A
21S-641-12	Single Sided Bracing Rod Cleat Details	Rev A
21S-641-13	Double Sided Bracing Rod Cleat Details	Rev A
21S-641-14	2 & 3 Way Single Sided Bracing Angle Cleat Details	Rev A
21S-641-15	2 & 3 Way Double Sided Bracing Angle Cleat Details	Rev A
21S-641-16	1 Way Single & Double Sided Bracing Angle Cleat Details	Rev A
21S-641-17	SHS Top Cleats – Single, Intermediate and Corner	Rev A

**Certifying Engineer**


HUU NGHIA MAI

**Senior Structural Engineer**

MIE Aust (Struct)

BEng, CPEng, NER 3824742, RPEQ 21782

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