



Verification Certificate No: AEC2017-042-L1128 Rev 0

Client Details:	PO No: TBA	Verifier Details:
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Item Description:	Duplex Stainless Steel 2205 Square Support Spigot Core fixed for supporting pool security glass panels Duplex Stainless Steel 2205 Square Support Spigot Deck fixed for supporting pool security glass panels
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Item Identification No:	Square Spigot Core fixed 0101512 (10) Square Spigot Deck fixed 0102512 (8)
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Client References: <small>(Drawing Numbers, Client Specs, Project Numbers etc)</small>	As per the attached sketches SK-AEC2017-042-01 & SK-AEC2017-042-02 As per the attached Material Certificate
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Applicable Codes and Standards:	AS/NZS 1170.1: 2002 – Structural Design Actions. Part 1: Permanent, Imposed and Other Actions AS/NZS 1170.2: 2011 – Structural Design Actions. Part 2: Wind Actions AS 3990: 1993 – Mechanical Equipment - Steelwork
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External Dimensions:	Refer to the attached SK-AEC2017-042-01 & SK-AEC2017-042-02 for spigot dimensions
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Material:	Duplex Stainless Steel 2205 stainless steel. Min yield strength = 450MPa
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Fabricator:	Metforce
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Location:	Wind Region A
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Other applicable Codes:	AS1288 – Glass in Buildings – Selection and installation AS 1926.1 – Swimming Pool Safety. Part 1: Safety barriers for swimming pools
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Specific Conditions of Use:	<ul style="list-style-type: none"> - Pool security fence spigots have been engineered to comply with AS/NZS 1170.1 load requirements for Type A activity: Point Load (0.6kN any direction) and line load (0.35kN/m any direction). - Square Spigot Core fixed - Minimum 90mm Spigot embedment into concrete (assumed Min Concrete strength is 25MPa). - Square Spigot deck – 4 off M12 Chem Set anchors. Minimum embedment as per the manufacturer's recommendations. Minimum working load tension capacity per bolt to be 6kN.
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Remarks:	<ul style="list-style-type: none"> - Assumed maximum size of glass panel is 2.0m (W) x 1.2m (H), supported by minimum 2 spigots at base - Glass panels shall be Grade A Safety Glass in accordance with requirements of AS1288. <p>Notes: 1. This certificate does not cover the verification of the glass panel. 2. Footings and slabs are not designed and /or verified by AEC.</p>
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The design of the item is considered structurally adequate for the intended purpose and is in accordance with the applicable Codes and Standards listed above.

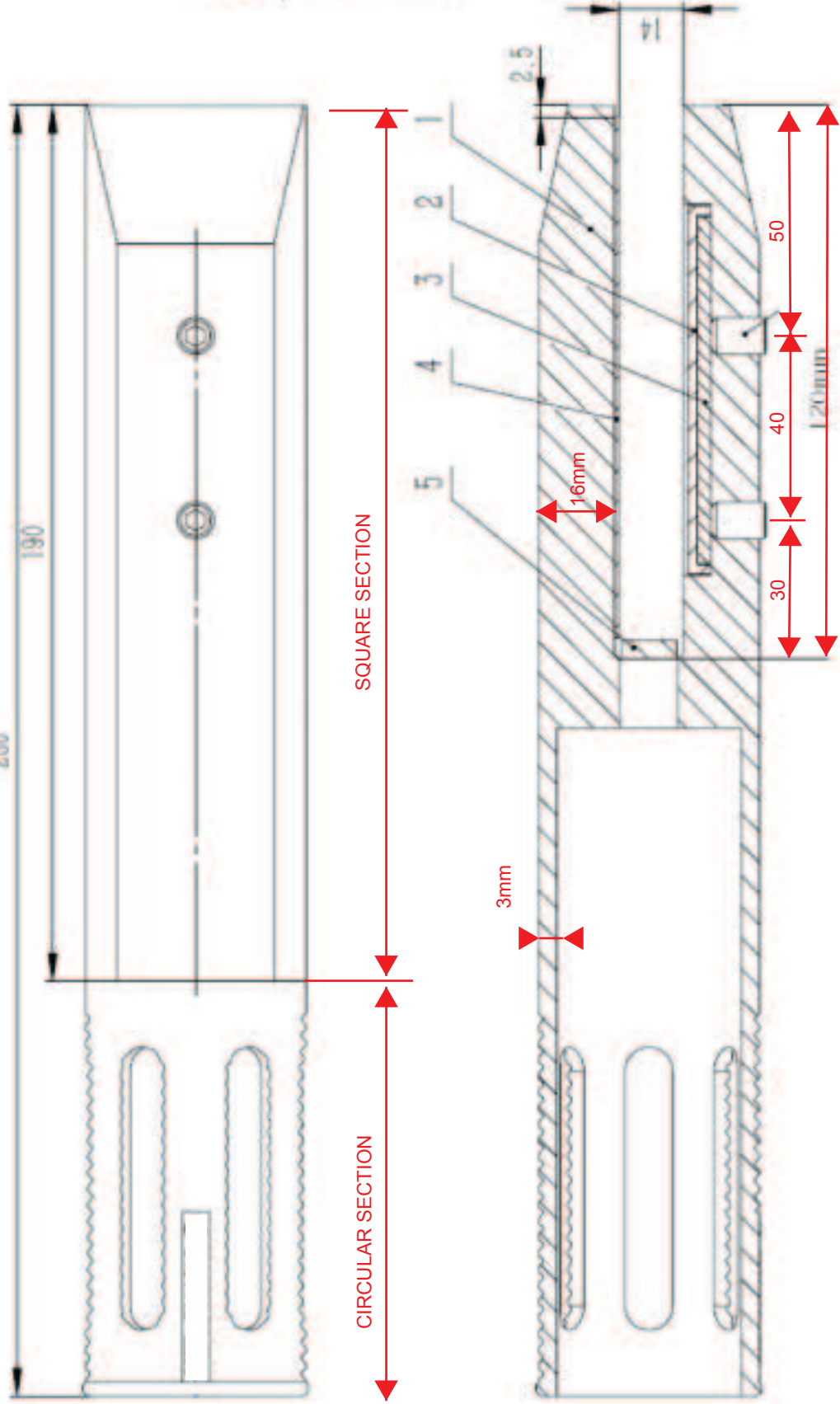
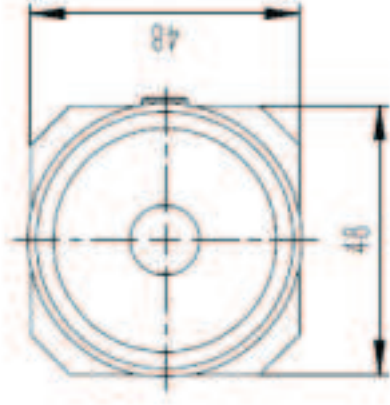
Signatories	
Checker:	Ieva Dzvankute (Senior Structural Engineer)
Approver:	Jeff Kazazi (Principal Structural Engineer)

Signatory	
	28/03/17
Jeff Kazazi Principal Structural Engineer CP Eng MIE Aust Reg No: 125495	



CIRCULAR SECTION

SQUARE SECTION





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TEST CERTIFICATE

Chemical Composition: (%) SS Duplex 2205 SPIGOT SQ CORE

C	Si	Mn	P	S	Cr	Ni	Mo	N
0.02	0.90	1.40	0.03	0.01	22.00	5.50	3.00	0.20

Chemical Composition: (%) SS Duplex 2205 SPIGOT SQ DECK

C	Si	Mn	P	S	Cr	Ni	Mo	N
0.02	0.90	1.40	0.03	0.01	22.00	5.50	3.00	0.20

Conclusion:

As listed above, the spigots are made of qualified Duplex2205 material.

Date of Manufacturing: January 2017

Material Certificate 2205
Dated: 28/03/2017
By: ID
Page: 4 of 4