





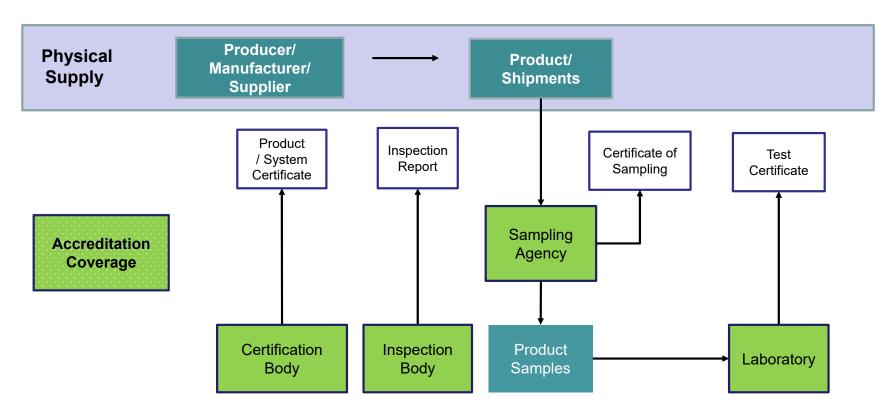
# Foundations for future digital product conformity systems – it's not all about technology

WTO TBT Thematic Session on Digital Solutions for Conformity Assessment Procedures 8 March 2022

Presenter Brett Hyland

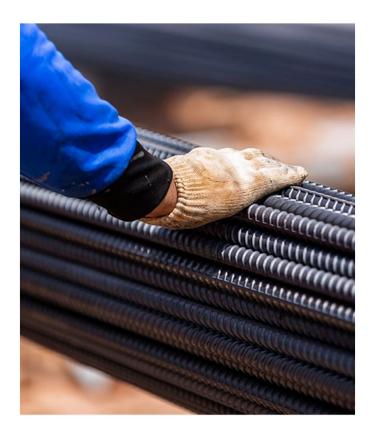
Stakeholder Engagement Manager - National Association of Testing Authorities (NATA) Australia





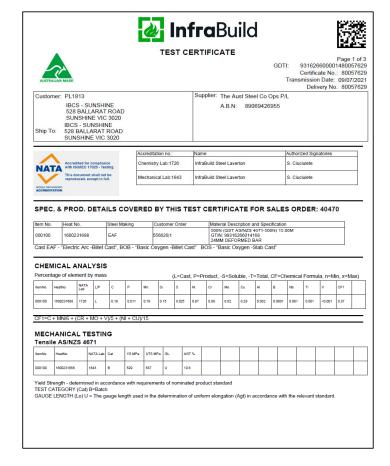
**Key product conformity assessment processes** 



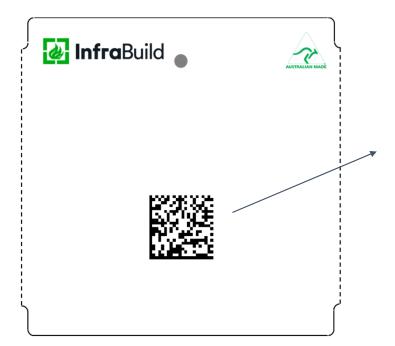




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Al Code	АІ Туре	Data	Comments
01	Global Trade Item Number (GTIN)	99316266014168	This is the InfraBuild Steel issued GTIN for 24mm Deformed Reinforcing Bar manufactured to AS/NZS 4671 in Quench & Self-Tempered 500N grade, produced in 15m lengths and supplied in ~3t bundles.
21	Serial Number	1613802680	The serial number indicates the individual production identity of the bundle or coil - combined with the GTIN it gives the globally unique identity of the individual bundle or coil
10	Batch Number	1600231688	This is the identity of the cast, or heat, of steel that was manufactured in the steelmaking process & from which the finished product has been rolled.
30	Count of Items	54	This the count of units within the bundle, in this case the count is 54 individual bars.
3100	Net weight, kilograms	3002	This is the indicative mass of the bundle measured in kilograms, the second "0" in the AI (3100) string indicates that there is no decimal point ==> 3002kg = 3.002t

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ISO/IEC 15459-6





#### **TEST CERTIFICATE**

GDTI: 931626600001480057629 Certificate No.: 80057629

Transmission Date: 09/07/2021 Delivery No. 80057629

Customer: PL1813 IBCS - SUNSHINE 528 BALLARAT ROAD

SUNSHINE VIC 3020 IBCS - SUNSHINE 528 BALLARAT ROAD SUNSHINE VIC 3020

Supplier: The Aust Steel Co Ops P/L A.B.N: 89069426955

Accreditation no.:	Name	Authorized Signatories	
Chemistry Lab:1726	InfraBuild Steel Laverton	S. Ciuciulete	
Mechanical Lab:1843	InfraBuild Steel Laverton	S. Ciuciulete	

#### SPEC. & PROD. DETAILS COVERED BY THIS TEST CERTIFICATE FOR SALES ORDER: 40470

Item No.	Heat No.	Steel Making	Customer Order	Material Description and Specification				
000100	1600231688	EAF	556626 1	500N (QST AS/NZS 4671-500N) 15.00M GTIN: 99316266014168 24MM DEFORMED BAR				
Cast EAF - "Electric Arc -Billet Cast", BOB - "Basic Oxygen -Billet Cast" BOS - "Basic Oxygen -Slab Cast"								

#### CHEMICAL ANALYSIS

Percentage of element by mass (L=Cast, P=Product, -S=Soluble, -T=Total, CF=Chemical Formula, n=Min, x=Max)

ItemNo	HeatNo	NATA Lab	L/P	С	Р	Mn	Si	s	Ni	Cr	Мо	Cu	AI	В	Nb	Ti	v	CF1	
000100	1600231688	1728	L	0.19	0.011	0.79	0.15	0.025	0.07	0.09	0.02	0.29	0.002	0.0001	0.001	0.001	<0.001	0.37	

#### CF1=C + MN/6 + (CR + MO + V)/5 + (NI + CU)/15

### MECHANICAL TESTING

Lensin	E MOINZO 4	071										
ItemNo	HeatNo	NATA Lab	Cat	YS MPa	UTS MPa	GL	AGT %					
000100	1600231688	1843	В	529	637	U	10.6					

Yield Strength - determined in accordance with requirements of nominated product standard

nata.com.au

TEST CATEGORY (Cat) B=Batch
GAUGE LENGTH (Lo) U = The gauge length used in the determination of uniform elongation (Agt) in accordance with the relevant standard.

## InfraBuild

	Al Code	Al Type	Data	Comments
`	O1	Global Document Type Identifier (GDTI)	Document Type: 9316266000014 Document Serial Number: 80057629	This is the InfraBuild Steel issued GDTI to identify uniquely the Test Certificate for Delivery 80057629 of 24mm Deformed Reinforcing Bar manufactured to AS/NZS 4671 in Quench & Self-Tempered 500N grade, produced in 15m lengths and supplied in ~3t bundles.  Comprises the Document
				Type (Test Certificate) and the Serial Number

ISO/IEC 15418

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