



Digital Product Conformity

Mr Brett Hyland

NATA



ACKNOWLEDGEMENTS



Australian Government
**Department of Industry,
Science and Resources**

This project is supported by the Australian Government Department of Industry, Science and Resources through the Support for Industry Service Organisations program.

For many products with which we interact and consume,
testing inspection & certification provides the basis for assuring:

- ✓ Safety
- ✓ Quality
- ✓ Environmental impact
- ✓ Social impact

Testing inspection and certification is carried out by Conformity Assessment Bodies (CABs). Global arrangements exist to ensure mutual recognition.

However!!

- Existing document exchange systems are vulnerable to **false connections** being asserted between conformity data and physical product supply (confusing for importers, distributors, building surveyors)
- Certificates are **subject to revision**, but paper/PDF copies don't automatically update!
- The rigor of some product approvals may be open to question, with the **connection to global recognition** not always obvious.
- Escalating demands for traceability and data **aggregation across supply networks** will require entirely new functionalities.

Current State

- Paper and pdf
- Manual verification
- Increasing complexity

*Our focus is on
the transition!*

Future State

- paper/pdf **and paperless**
- Automatic verification
- Standardization

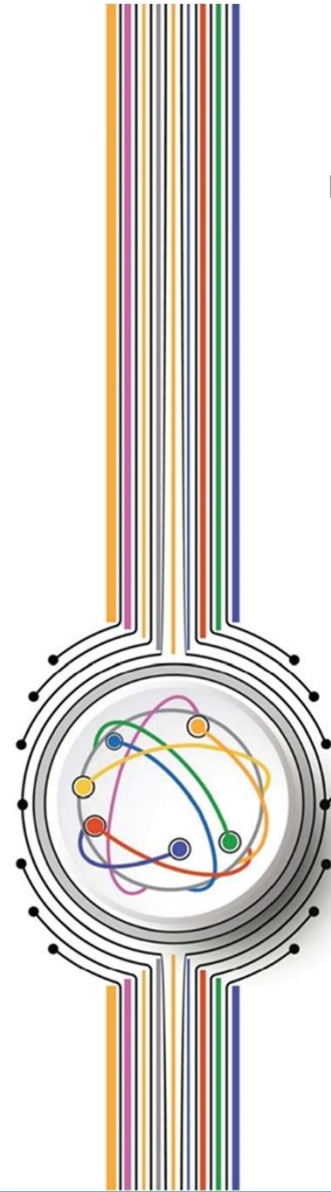


Any solution that depends on all supply chain participants (domestic and international) adopting an agreed technology is not happening anytime soon!

We need manageable 'small steps' (a glide path) to support digitalization!

**White Paper
Digital Product Conformity
Certificate Exchange**

Public Review Draft

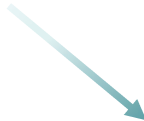




Certificate Identifier URL



Web Menu
or
Resolver

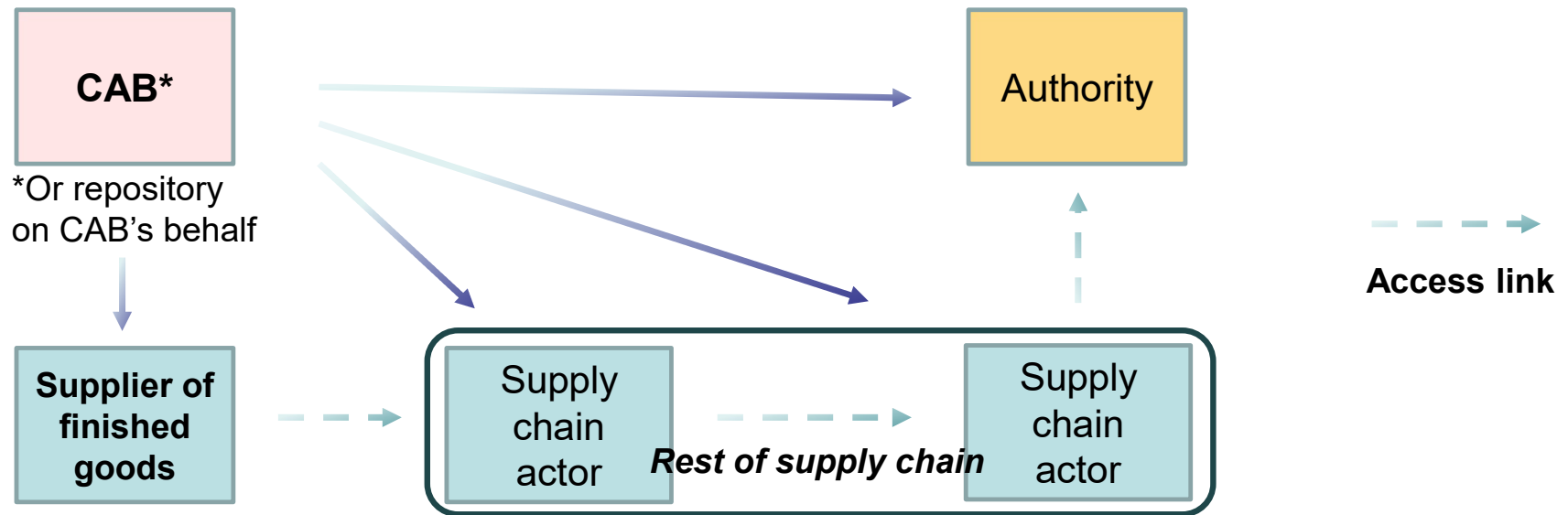


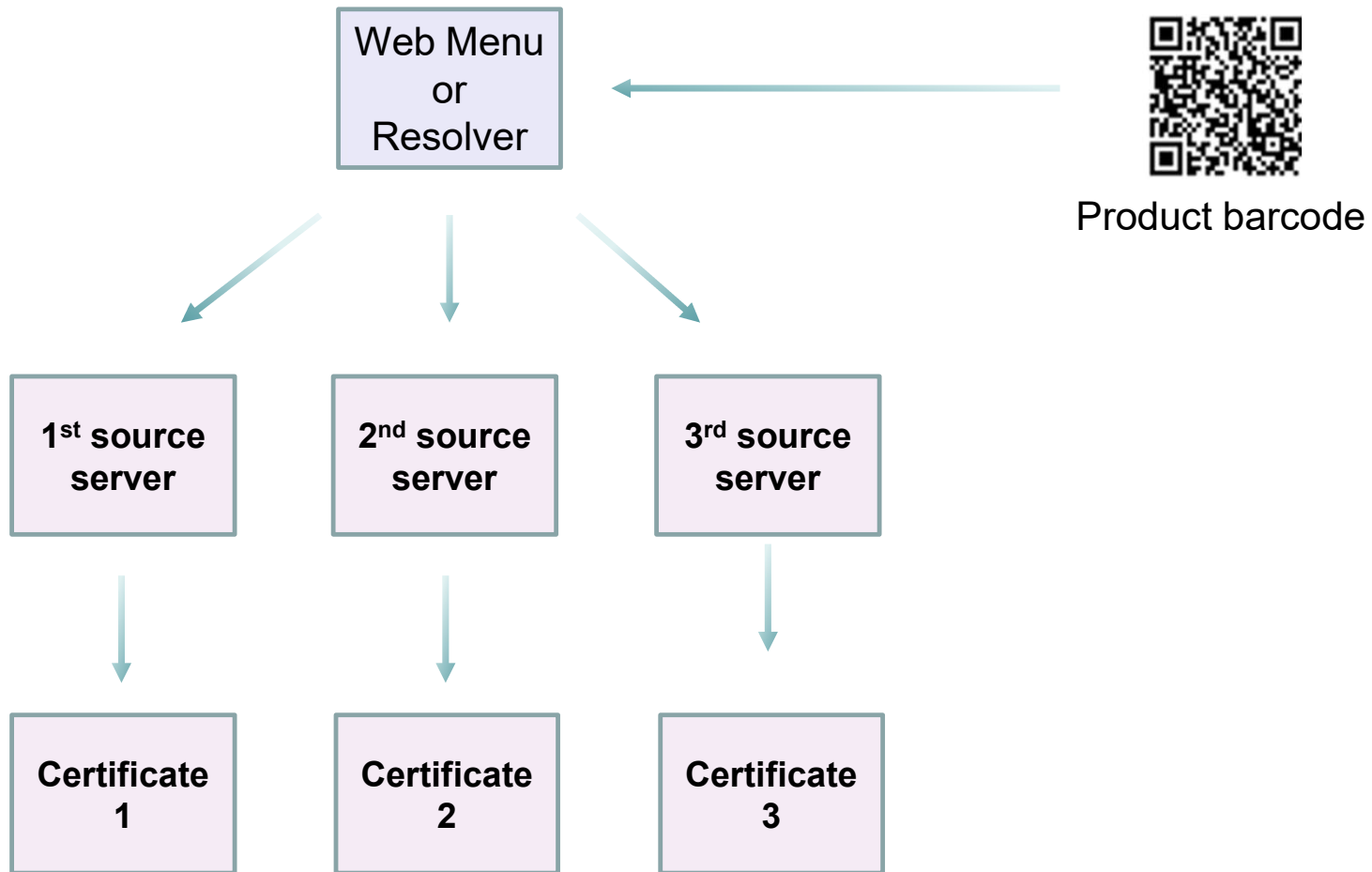
View certificate
(if permitted)

**Linked
product ID**

**Accreditation
information**

Image adapted from diagram from UN/CEFACT Digital Product Conformity Certificate Exchange White Paper Public Review version





Guiding principles - as we move to a digital trade environment

- ✓ Accessing conformity data **directly from trusted sources**
- ✓ Robust links to **global mutual recognition** arrangements
- ✓ Reliable linking of conformity data to **physical supply**
- ✓ Leveraging global data standards as an **enabling mechanism for traceability**
- ✓ Provision for **selective redaction** of sensitive data

Introducing a 'demonstrator' platform



sandbox.conformity.id

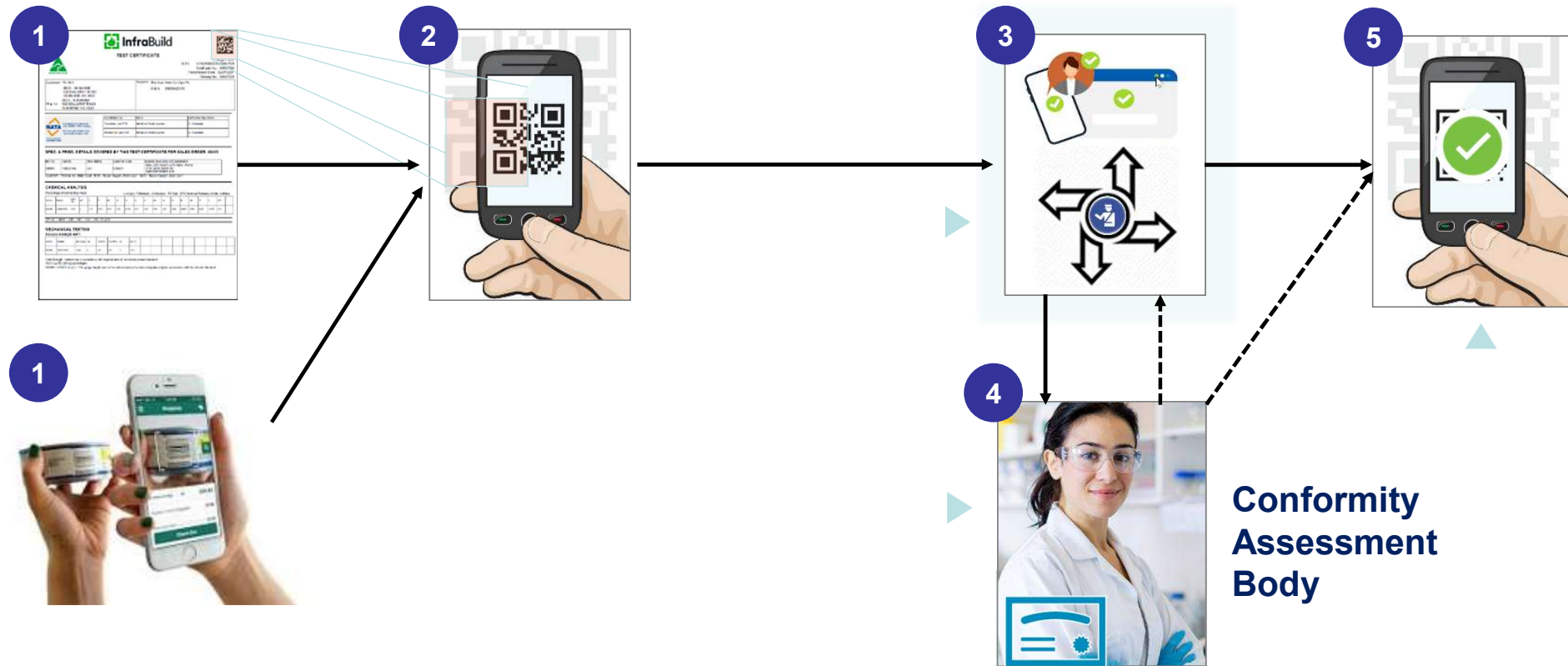
Acknowledgements



Australian Government
**Department of Industry, Science,
Energy and Resources**

This project is supported by the Australian Government Department of Industry, Science, Energy and Resources through the Support for Industry Service Organisations program.

Conceptual framework



Scenario:

I have a certificate and
I want more information





Customer: XXXXXX XXXXXXXXXXXXXX XXXXXXXXXXXXXX XXXXXXXXXXXXXX Ship To: XXXXXXXXXXXXXXXX XXXXXXXXXXXXXX XXXXXXXXXXXXXX	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	556626j1	500N (GST AS/NZS 4671-500N) 15.00M GT IN: 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	C	P	Mn	Si	S	Ni	Cr	Mo	Cu	Al	B	Nb	Ti	V	CF1	
000100	1600231688	1726	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

Tensile AS/NZS 4671

ItemNo	HeatNo	NATA Lab	Cat	YS MPa	UTS MPa	QL	AGT %												
000100	1600231688	1843	B	529	637	U	10.6												

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

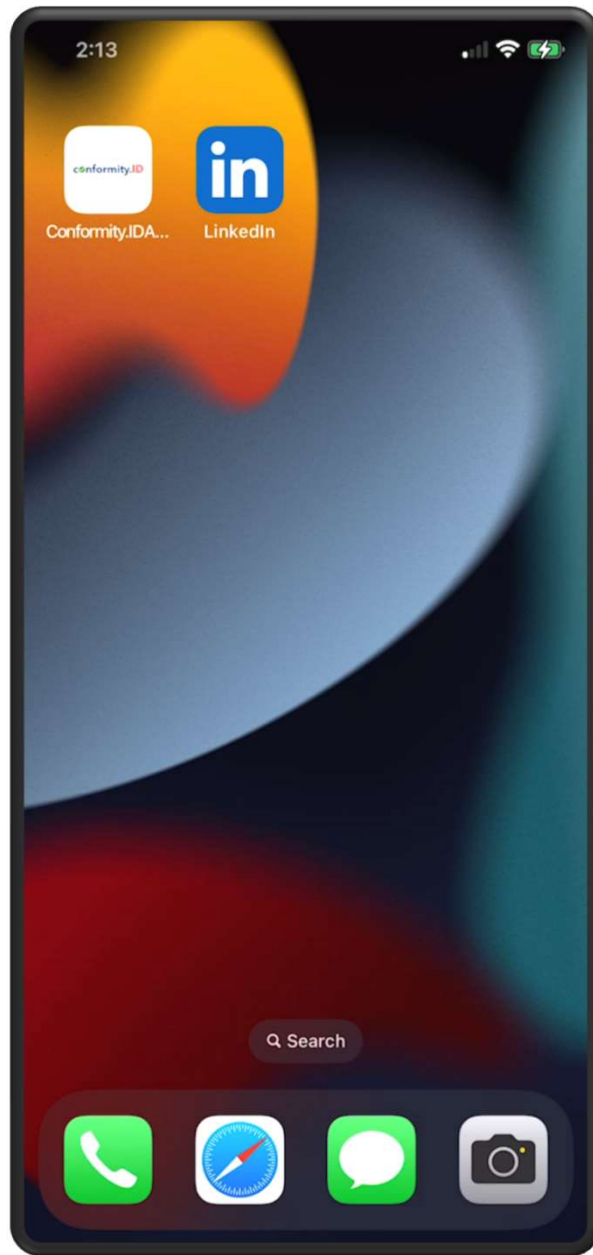
TEST CATEGORY (Cat) B=Batch

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

* Barcode added for demonstration purposes

(Try reading it with your phone)





In this scenario:

Test Report with a barcode that carries a digital link.

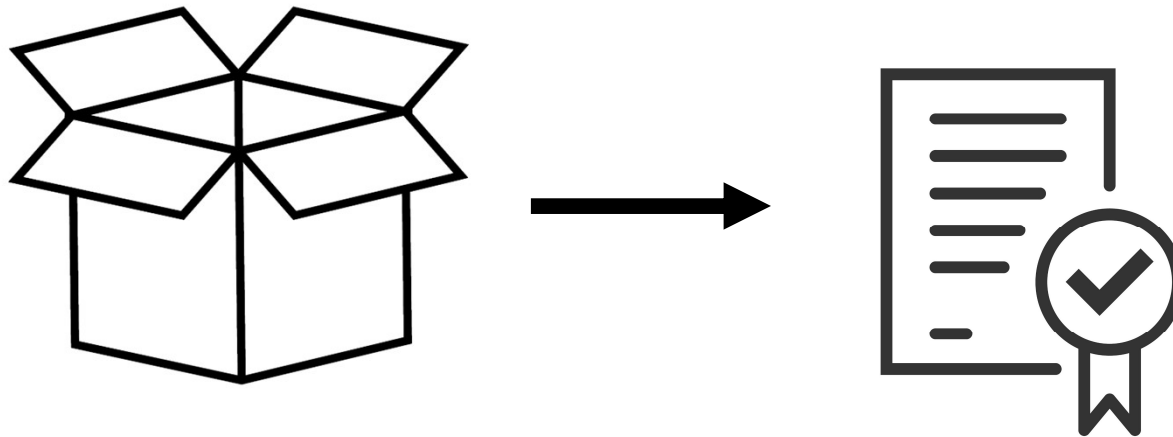
Brings the user to a page where the user can examine its details, with a color-coded summary of findings on areas of interest:

- Status
- Accreditations
- Scope
- Associations

Additional details are offered in each area.

Scenario:

I have a product and
I want to find certificates



GTIN:
Lot: Serial:

Submit



Search Results

This is what we found!

There are 10 declared relationships of certificates in Conformity.ID with the identifier you provided (GTIN 99316266014168). They are listed below, grouped according to certificate status and relationship to the identifier.

Certified Product: 1

1. Certificate GDTI: 9312345678907PCACRS0000031102

Certificate Type: Product Certification

Certified by: Australasian Certification Authority for Reinforcing and Structural Steels

[Explore this certificate]

Certificate is at the source

According to our records, the certificate identified by GDTI 9312345678907PCACRS0000031102 is a Product Certification issued by Australasian Certification Authority for Reinforcing and Structural Steels Ltd on 1 January 2023. [More details]

✓ This certificate is current

[More on certificate status]

✓ No issues found regarding accreditation status

[More on accreditation status]

✓ No issues found regarding scope details

[More on scope details]

✓ 3 associations identified, no issues found

[More on associations]

Summary & authoritative verification

Direct link if available

[link]

Further Information

Australasian Certification Authority for Reinforcing and Structural Steels Ltd has provided a [link] regarding this certificate, access to which is dependent on the permission rules set by the certificate issuer.

For more information on this certificate, contact Australasian Certification Authority for Reinforcing and Structural Steels Ltd at info@steelcertification.com or 0299657216.

[Less information]

steelcertification.com/Certificates/Webpdfs_current/31102.pdf

2023
VALID TO 31 DEC

ACRS
PRODUCT CERTIFICATION
www.steelcertification.com

Australasian Certification Authority
for Reinforcing and Structural Steels Ltd

CERTIFICATE OF PRODUCT PERFORMANCE

Certificate Number: 31102

InfraBuild
INFRABUILD STEEL
LAVERTON, VIC, AUSTRALIA

has satisfied the Authority that it complies with the rules of the ACRS Product Certification Scheme, and the relevant ACRS Quality and Operations Assessment Procedures. Where appropriate, and as listed below, it has further satisfied the Authority that it manufactures and/or supplies products that conform with the standards listed below, and is entitled to use the ACRS mark in relation to the products listed on this certificate.

SCOPE OF CERTIFICATION

Reinforcing Bar Manufactured in straight lengths to AS/NZS 4671: 2019

Products listed on this Manufactured Product certificate may be relied upon as having the benefit of ACRS Product Scheme certification after any subsequent processing only if cut, or bent, or welded by an ACRS certified processor. For Approval of processed reinforcing bar, refer to the bar processor's ACRS Fabricated Product certificate.

Full details of the products for which certification has been achieved should be viewed at: www.steelcertification.com

By authority of
ACRS Board: Andrew Wheeler, Executive Director

Issued: 1 January 2023 Valid until: 31 December 2023

First certified: November 2003

JAS-ANZ
www.jas-anz.org/register

This document is uncontrolled when printed
View original at www.steelcertification.com

1 of 2

InfraBuild  

ACRS CERT NO. 31102
QST AS/NZS 4671-500N

Deformed Bar 24x15000mm

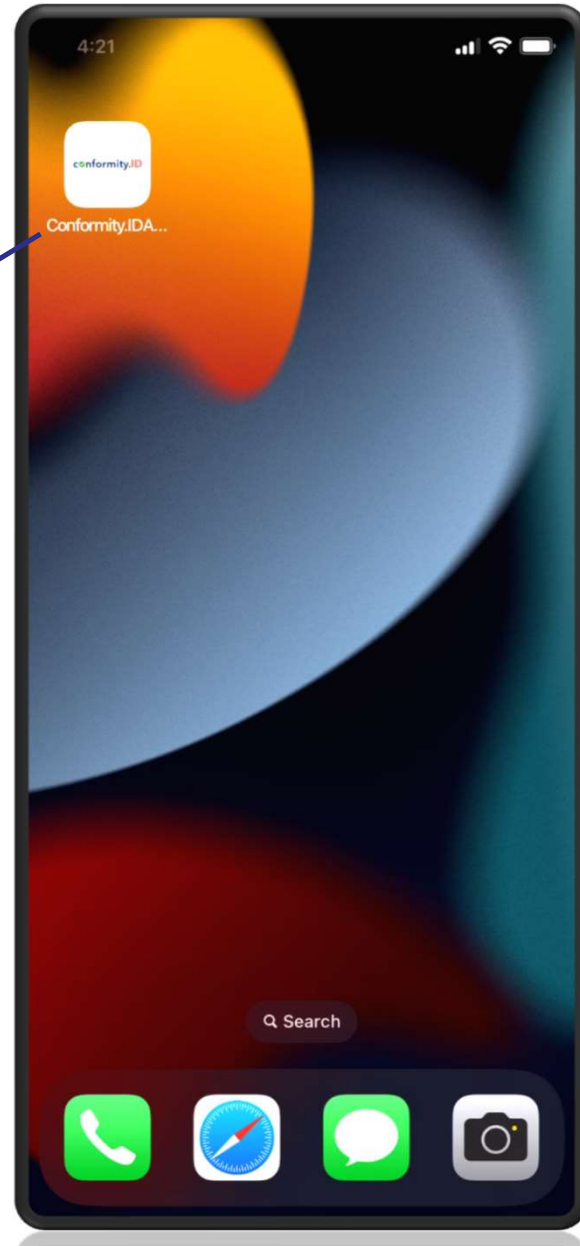
UNIT ID:	1613802680	COUNT	54
HEAT:	1600231688	INDIC. MASS	3.002t
GTIN:	99316266014168		
Item:	98081		



(01)99316266014168(21)1613802680

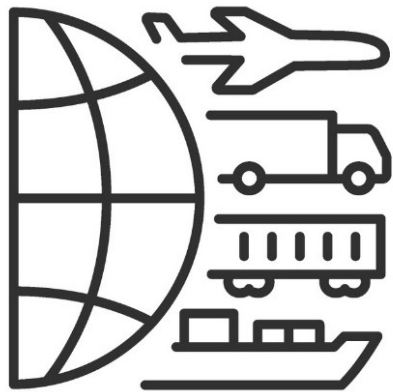
Special app to scan regular barcodes and find certificates

Regular 1D barcode with the product's GTIN and serial



Scenario:

I have a delivery notification
and I want to find certificates





Delivery Document 80057629



SOLD TO

IBR - SUNSHINE
528 BALLARAT ROAD
SUNSHINE VIC 3020
AUSTRALIA

Sales Order 40470
Customer PO No. 556626
Customer Account No PL1813
Despatch Date 06/07/2021

Delivery Notes

SHIP TO

IBR - SUNSHINE
528 BALLARAT ROAD
SUNSHINE VIC 3020
AUSTRALIA

Sales Person
Email
Telephone
Carrier K & S FREIGHTERS
Rego

Item	SO / Item	Material	GTIN	Description	Quantity Delivered	Sales UOM	Weight (KG)	
000010	40470/100	10001844	99316266014168	24MM DEFORMED BAR 500N (QST AS/NZS 4671-500N) 15.00M	0	TO	25,380	
				Batch	Quantity	UOM	Weight	Heat No.
				1613802688	0	TO	2,780	1600231688
				1613802687	0	TO	2,830	1600231688
				1613802686	0	TO	2,880	1600231688
				1613802685	0	TO	2,830	1600231688
				1613802680	0	TO	2,740	1600231688
				1613802689	0	TO	2,780	1600231688
				1613802692	0	TO	2,680	1600231688
				1613802683	0	TO	3,085	1600231688
				1613802684	0	TO	2,775	1600231688

Total Weight (KG) 25380.000

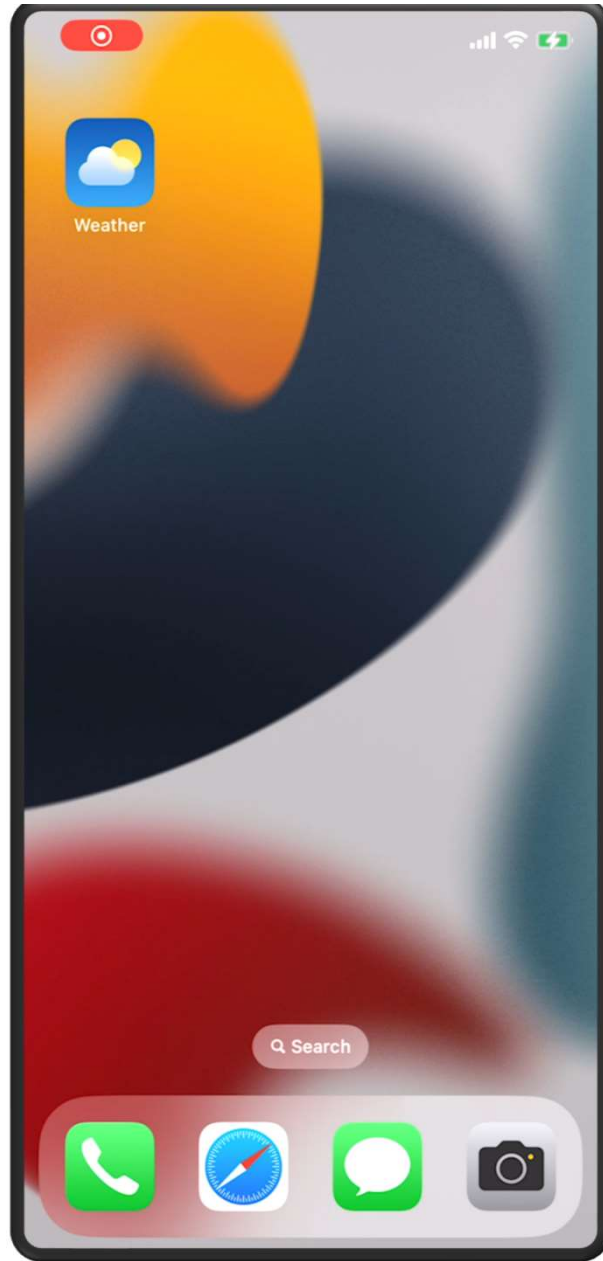


Looking for certificates?
Scan this 2D barcode to find certificates associated with SCCC 093162660141681233

* Barcode added for demonstration purposes

(Try reading it with your phone)





In this example:

Delivery Document has a barcode carrying a digital link.

Brings the user to a list of certificates associated with that delivery.

In the example, the user can examine the details of two certificates found, each with a color-coded summary of findings on areas of interest.

For one of them, the user can navigate directly to a digital copy of the certificate hosted at the source entity.

Welcome!

Welcome to Australia's own digital platform for finding certificates and for verifying their conformity and accreditation details.

 sandbox.conformity.id



New to conformity.id? No worries, mate!

If this is your first time using this platform, we invite you to watch two introductory videos that we have prepared with you in mind. They will get you up and running in no time!



What is conformity.ID?



How to use conformity.ID



Looking for a certificate? We can help you find it!

We can help you find certificates – issued by conformity.ID participants – associated with products, shipments, entities, locations or assets of interest, for which you have an identifier.

[Click here](#) to look for certificates



Do you have a certificate? Explore its details here!

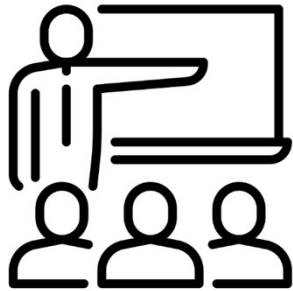
If you have a certificate issued by a conformity.ID participant, you can learn a lot by exploring it. With the certificate's 2D-barcode or GDTI at hand, [click here](#) to learn about its status, verify its accreditations, and much more.

Conformity.ID

- is a national-interest endeavour, exploring **non-proprietary approaches** to supply chain issues
- helps users **find their way to the source**, rather than trying to centralise certificates
- represents an **entry point for industry participation**, as one step on a longer journey (it is not the destination)
- its architecture is freely offered to any interested Australian government agency

An industry pilot - steel sector

Communication with certificate users about the pilot and certificates



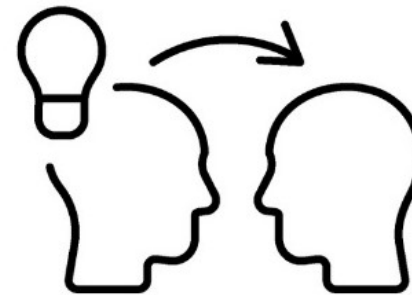
Register certificates, generating code and issue of certificate



Contribute to the workshop discussion about the certificate information



Make suggestions to improve and integrate with existing systems





Thank you!

ACKNOWLEDGEMENTS



Australian Government
**Department of Industry,
Science and Resources**

This project is supported by the Australian Government Department of Industry, Science and Resources through the Support for Industry Service Organisations program.