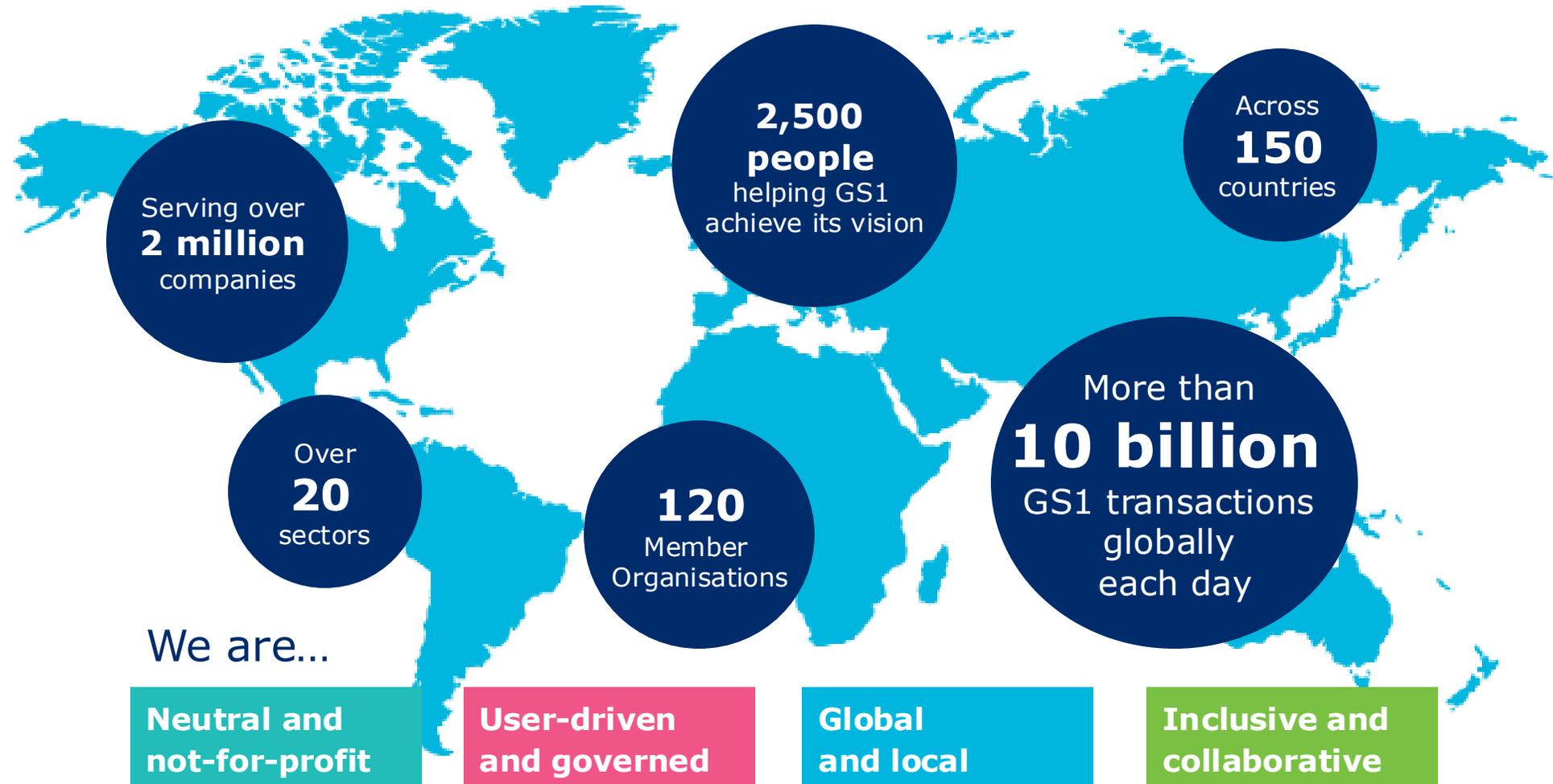

Practical Application of GS1 Standards

Dan O’Gorman (GS1 Ireland)

6th of November, 2025



An international standards organisation



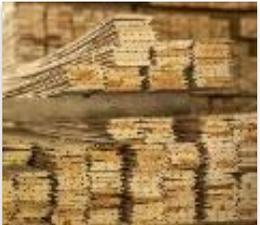


Information is the 'I' in BIM



Central Role of Information

Information in BIM is vital for meeting sustainable development and digital transformation goals in construction and operational phases.



GS1 Standards Benefits

GS1 standards ensure accurate, interoperable data supporting traceability, transparency, and **trust** in building components, products and consumables.



Lifecycle Management Integration

Integrating GS1 with BIM creates a **Golden Thread** linking design, construction, and operations for better lifecycle management from “Cradle to Cradle”.



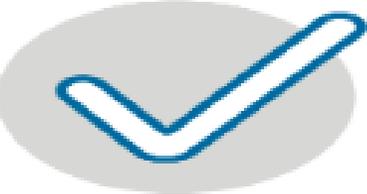
Trust supported by GS1 standards

T



Transparency

R



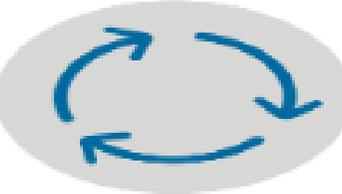
Responsibility

U



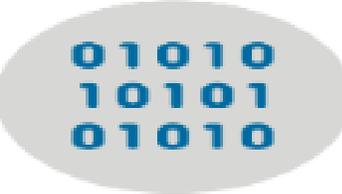
User focus

S



Sustainability

T



Technology



Power of interoperability – end of the Walled Garden



- In the early 1980s, Bank customers were limited to only using their own bank's ATMs.
- Banks decided they should share interoperable ATM networks
- By the **1990s** the ATMs were interconnected, allowing universal access.



Concrete pour 28 Actors



Designers



H&S Manager



60 to 100 years later

Contractors Staff



PSCS



Midlands Steel

Try it - scan one of the QR codes



GS1 GSRN	(8017)539200022950007192
Name	James
Role	Concrete Supervisor



(8017)539200022950007192

Scan Here First

Please scan here second third and fourth



CONCRETE SUPERVISOR

Step 2
Double Tap Here

Scan GS1 Digital Link Barcode



You can pick other actors by scrolling down

GS1 powered QR Codes
One scan. Infinite possibilities.



START SCANNING

Ready - click START to scan

Step 4:
Tab here and scan the QR code to the right

Step 3
Choose camera

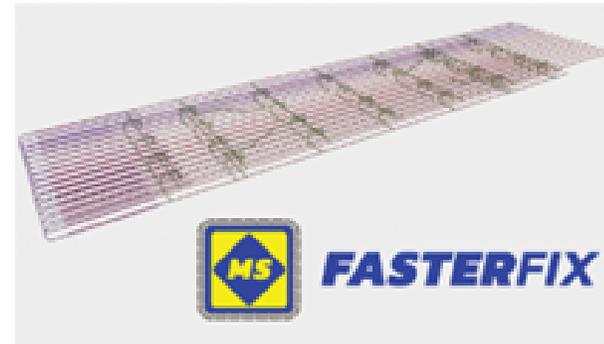
Select Camera

camera 0, facing back

RESET

PREVIOUS PAGE

GTIN	05392000229662
Brand Name	Midland Steel
Product	Rebar Cage



(01)05392000229662

This is what you scan for **Step 4:**

Try it - scan one of the QR codes



GS1 GSRN	(8017)539200022950007185
Name	Sara
Role	Resident Engineer



(8017)539200022950007185

Scan Here First

Please scan here second third and fourth



CONCRETE SUPERVISOR

Step 2
Double Tap Here

Scan GS1 Digital Link Barcode



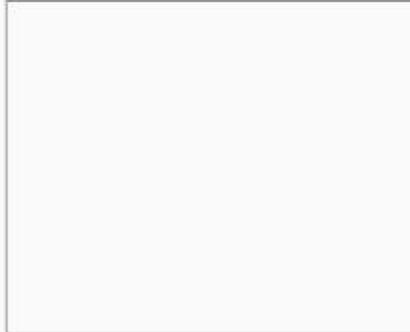
You can pick other actors by scrolling down

GS1 powered QR Codes
One scan. Infinite possibilities.



START SCANNING

Ready - click START to scan



Step 4:
Tab here and scan the QR code to the right

Step 3
Choose camera

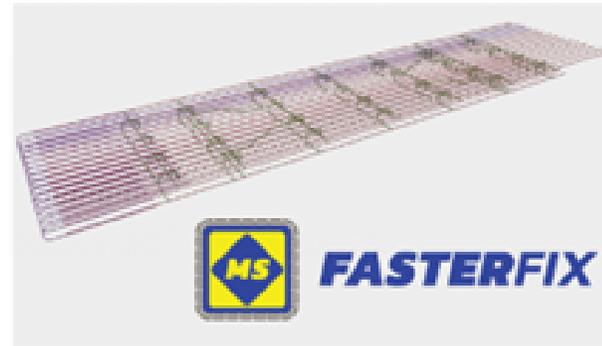
Select Camera

camera 0, facing back

RESET

PREVIOUS PAGE

GTIN	05392000229662
Brand Name	Midland Steel
Product	Rebar Cage



(01)05392000229662

This is what you scan for **Step 4:**

What the four key stakeholders see post the scan



Rebar Installer



ANTATEST-O50

- Standard Operating Procedure (SOP)
- Risk Assessment Method Statement
- FASTERFIX 3D Model Rebar Module
- Site Access Information
- Agreed Cover

Resident Engineer



ANTATEST-O50

- FASTERFIX 3D Model Rebar Module
- Concrete Specification
- Risk Assessment Method Statement
- Agreed Cover
- Site Access Instructions
- Eco-Wise Sample (Digital Building Logbook)

Concrete supervisor



ANTATEST-O50

- FASTERFIX 3D Model Rebar Module
- Concrete Specification
- Standard Operating Procedure
- Risk Assessment Method Statement
- Last Planner - Pull Plan

Demolition Engineer



ANTATEST-O50

- FASTERFIX 3D Model Rebar Module
- Concrete Specification
- Risk Assessment Method Statement
- Agreed Cover



Making a difference the GS1 Way



Digital Workflow Simplification

The use of GS1 standards can replace manual construction processes with digital solutions for smoother workflows and less paperwork.



Trusted Product Data Access

Scanning QR codes powered by GS1 Digital Link provides access to multiple sources of distributed product information.



Improved Project Outcomes

GS1 standards enable digital transformation in construction leading to lower costs, less waste and more successful projects.

The importance of the “I” in BIM



- **Digital Building Logbooks will be the source for verifiable information**



Example how the GTIN becomes the link

Sample only

Electronic Proof of Delivery (PoD) Docket

GS1 Globally Unique Identifier

Signed on glass on the E-PoD mobile app.

Dunboyne, Co. Meath, Ph. 01-8521211 Vat Reg: IE02024170
 Plans: Millennium Millennium Park, Cappagh Road, Dublin 15 Ph: 01 8649005

INVOICE 

 Docket No: 1388806
 Date: 29/08/2025

Account No: 824905 Site Name: _____
 Customer Name: _____ Address: _____
 Address: _____ DUBLIN 17
 DUBLIN 1 Order Number: _____
 IE Site Contact: 0852824149

Order Number: _____ Time Ex Works: 14:27
 Transport Code: 4944 Time On Site: 15:02
 Radials: 12 Discharge: 15:08 - 15:42
 Load Ref: 1617736 Time Off Site: 15:42
 Total Time On Site: 40 min

Customer Remark: _____ Signed: 

Product	1325	Total Qty:	1.50	Quantity
DMS:	69666	Delivered:	1.50	1.50
Mixdesign:	12976	Remaining:	0.00	

Strength	Aggregate	Slump	Exposure class	Max W/C Ratio	Minimum Cement
C25/30	10	70			0.00

Cement	Admin	Chloride class	IS EN 206
CEMII	PL		

108219	DCPL (5%) SHIPMENT	1.00	pcg
69902	PART LOAD CHARGE	4.00	m3

CASH SALE:	Code	Description	Quantity	Price	Amount	Tax
	69666	C25/30 10mm Skip Mix CEM I	1.50 m3	148.25	222.37	19.50
	108219	DCPL (5%) Shipment	1.00 pcg	9.45	9.45	19.50
	69902	Part Load Charge	4.00 m3	90.15	360.61	19.50

Amount Net	342.95	EUR
Amount DCPL	9.45	EUR
Amount TAX	47.50	EUR
Amount Total	400.00	EUR

Water and Materials added on site = Signed: 0 Litres 

Received in good order and condition = Signed: 

Returned concrete = Signed:  Qty: _____

GS1 GTIN could be here

Mock NBS Source Product Sheet

Illustrative example for C25/30 Ready-Mixed Concrete (Kilsaran / Tarmac)

Product Information

Manufacturer	Kilsaran / Tarmac (example)
Product Name	Ready-Mixed Concrete – C25/30
Product Description	C25/30 strength class concrete (to EN 206/IS EN 206-1). Designed for use in reinforced foundations, slabs, beams and columns.
Applications / Uses	<ul style="list-style-type: none"> Structural concrete for residential and commercial buildings Ground-bearing slabs Beams, columns, and walls External pavements (with appropriate exposure class)
Key Features	<ul style="list-style-type: none"> Factory-produced, quality-assured ready-mix Strength class: C25/30 Slump classes: S2-S4 Max aggregate size: 20 mm Complies with EN 206 + IS EN 206-1
Verification / Update	September 2025 (illustrative)

Classification & Identifiers

Uniclass 2015	Pr 20 93 13 17 – Ready-mixed concrete
GS1 GTIN	2345678903 (illustrative only)
Other IDs	Manufacturer's internal code: RMX-C25/30-20

Literature & BIM

- Product Data Sheet (PDF)
- Safety Data Sheet (PDF)
- BIM Object: Available in NBS Chorus (Revit, IFC, COBie parameters with Uniclass + GTIN embedded).

How this helps

- Specifiers can search "C25/30" and drop the product into NBS Chorus with the correct Uniclass code pre-populated.
- Contractors and suppliers can scan the GS1 GTIN QR code to pull datasheets, EPDs, and QA certificates on site.
- FM teams inherit the same GTIN + Uniclass in the handover package, feeding the Digital Building Logbook or CAFM.





Powering trust in data for everyone everywhere



Scan here to choose an Actor



After choosing an Actor, scan the Fire Door QR code



What could be available at the product level in the future



cobuilder | Sp Supply

Search

EN

Categories Classifications ACC Projects **BETA**



30 Minute Single Leaf Flush fire resisting door-set with glazed vision panel
V.21
GS1 demo

Country England

Construction object
fire resisting doorset

Product code DFL2360

GTIN
05392000229648

Please see the prominent position of the GTIN in Cobuilder Supply Demo for GS1

PROPERTIES | LCA DATA | DOCUMENTS | CLASSIFICATIONS | REFERENCES

Powered by

Search property Property label

Jump To: COBie.Component COBie.Type DPP readiness requirements EN 14351-2 EN 18034 F-pak General properties Manufacturer information Product description

Sustainability requirements

COBie.Component

asset identifier	/01/05392000229648/21/MERR01
bar code	https://id.gs1ie.org/01/05392000229648/21/MERR01 - goes to Howdens Fire Door product page

Property	A1	A1-A3
abiotic depletion potential for fossil resources	-	300 MJ, net calorific value
abiotic depletion potential for non-fossil resources - minerals and metals	-	0.0001 kg Sb equiv
acidification potential, accumulated Exceedance	0.5 mol H+ eq	0.5 mol H+ eq
depletion potential of the stratospheric ozone layer	-	0.0002 kg CFC 11 eq
eutrophication potential, accumulated exceedance	-	0.05 mol N eq
formation potential of tropospheric ozone	-	0.03 kg ethene eq
global warming potential	150 kg CO2 eq (100 years)	150 kg CO2 eq (100 years)

[You can access the above page by double tapping here](#)





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Construction

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