First Look

Irish National Annex to ISO 19650-2:2018

A Cultural Shift In Attitude Towards BIM
CitA Tech Trend

C+W O'BRIEN
ARCHITECTS

C+W O'BRIEN ARCHITECTS

Davitt Lamon

Associate & BIM Manager

2010 — **BSc (Hons) Architectural Technology**
TU Dublin

2015 — **C+W O'Brien Architects**
Associate & BIM Manager

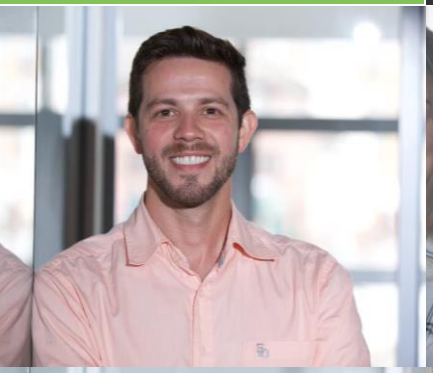
2016 — **MSc Building Information Modelling & Management**
TU Dublin

2018 — **TU Dublin**
P/T Assistant Lecturer in BIM & Visual Programming

2021 — **MSc Digital Construction Analytics**
TU Dublin

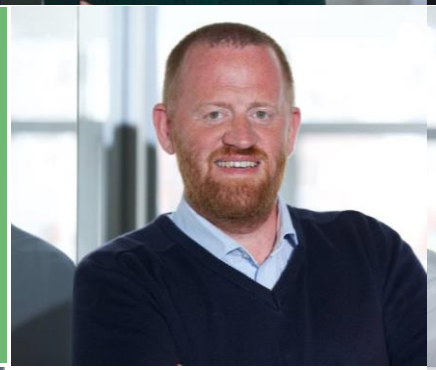
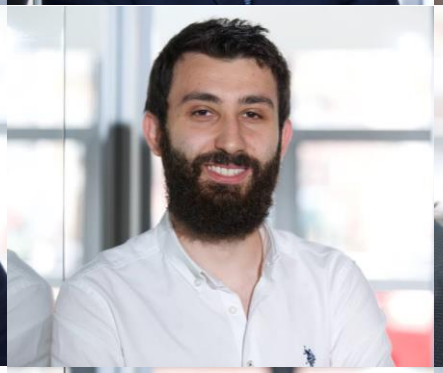
Architecture

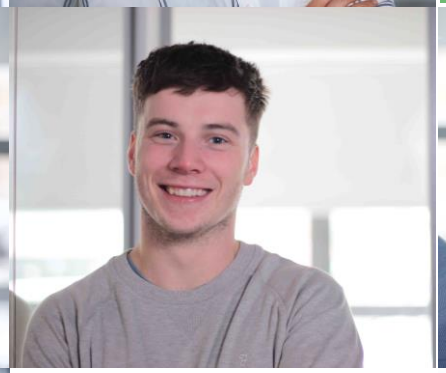
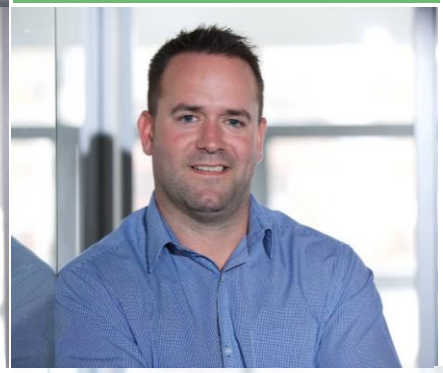
We believe the role of the architect is more than simply design.



Construction

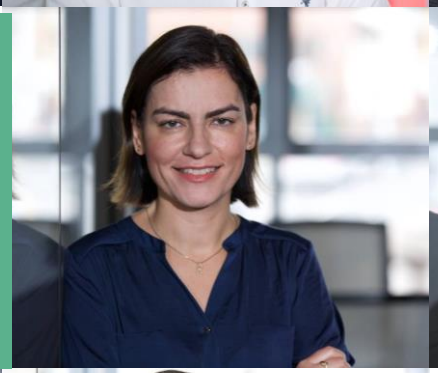
We strive to make the construction stage of your project as stress free as possible.

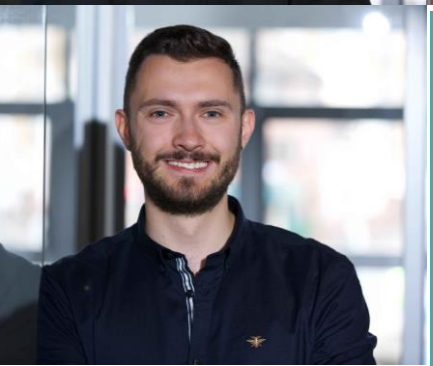



BIM

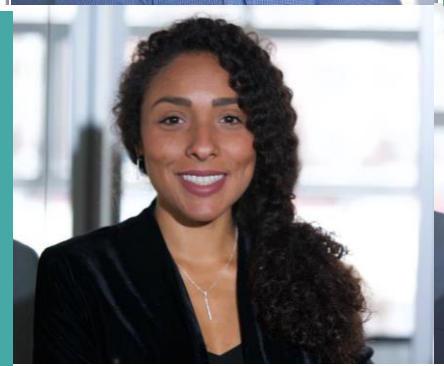
Information Management, Design Technology and Digital Innovation.





Interior Design

We create exciting and inspiring environments.



Modular

At the forefront of modular design in Ireland.

First Look at the Irish NA to ISO 19650-2:2018

Presentation Overview

The role of a National Annex to a standard is to clarify its implementation within a country, but it should not preclude international cooperation and agreement.

A National Annex should clarify any regional, language or country-specific usage. For international collaborative projects, an international or a specific National Annex may be selected.

The Irish National Annex assists the user in understanding the Irish implementation of this standard by translating the key terms and expanding on the requirements. The topics of activities alignment, information container identification, field codification and information container metadata are covered in this National Annex.

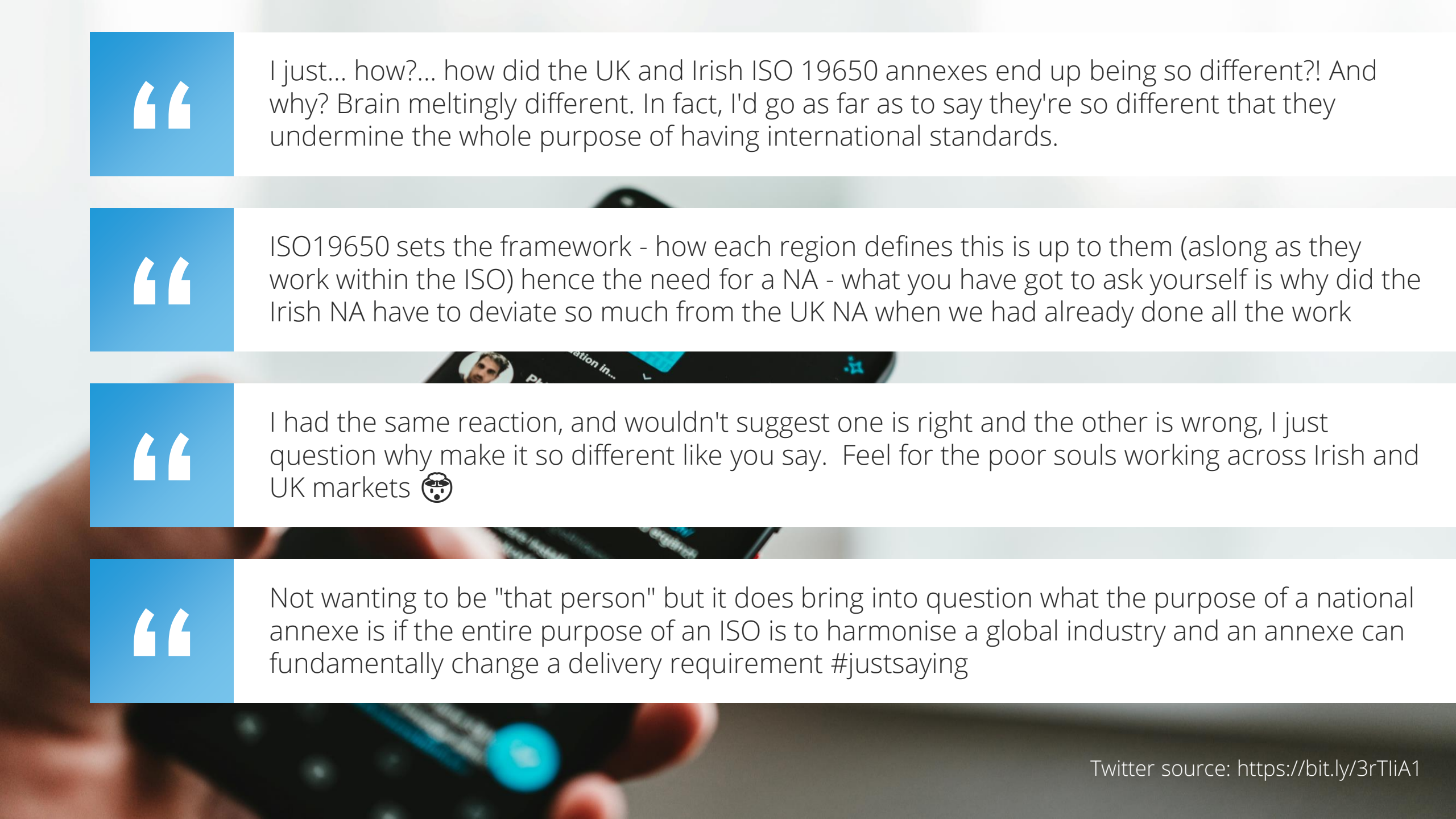
01 What is a National Annex and why do we need one?

02 Caveats and things to note before we get going.

03 The structure of this presentation and topics covered.

04 Learning outcomes and key take-aways (hopefully).

05 The relevance of this discussion and reasons for choosing.



> I just... how?... how did the UK and Irish ISO 19650 annexes end up being so different?! And why? Brain meltingly different. In fact, I'd go as far as to say they're so different that they undermine the whole purpose of having international standards.

> ISO19650 sets the framework - how each region defines this is up to them (aslong as they work within the ISO) hence the need for a NA - what you have got to ask yourself is why did the Irish NA have to deviate so much from the UK NA when we had already done all the work

> I had the same reaction, and wouldn't suggest one is right and the other is wrong, I just question why make it so different like you say. Feel for the poor souls working across Irish and UK markets 😳

> Not wanting to be "that person" but it does bring into question what the purpose of a national annexe is if the entire purpose of an ISO is to harmonise a global industry and an annexe can fundamentally change a delivery requirement #justsaying

Twitter source: https://bit.ly/3rTIiA1

Information Container ID

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A closer look.

BS EN ISO 19650-2:2018, Published: 31st of January 2019.

Project – Originator – Volume / System – Level / Location – Type – Role – Number

BS EN ISO 19650-2:2018, Incorporating Corrigendum, Published: 28th of February 2021.

Project – Originator – **Functional Breakdown** – **Spatial Breakdown** – **Form** – **Discipline** – Number

NA:2021 To I.S. EN ISO 19650-2:2018, Published: 8th of February 2021.

Project – (Below are optional) – Information Type – Originator – Project Role – Number

Subproject or Phase – Element or System – **Spatial Zone** – Level

Project (-Subproject or Phase)

Field codification.

C+W O'BRIEN ARCHITECTS

UK National Annex

Description
A single common project identifier.

Standard Codes
N/A

Length
2 - 6 characters

Additional Comments
A project can be divided into sub-projects within the project identifier. Where a project involves several parts, each part can be assigned a different project identifier.

UK National Annex with corrigendum

Description
A single common project identifier.

Standard Codes
N/A

Length
N/A

Additional Comments
A project can be divided into sub-projects within the project identifier. Where a project involves several parts, each part can be assigned a different project identifier.

Irish National Annex

Description
A single common project identifier.

Standard Codes
N/A

Length
6 characters max

Additional Comments
An optional proceeding field may be used for Subproject or Phase, with the code 'Z' used for multiple or 'X' for not applicable.

Originator

Field codification.

C+W O'BRIEN ARCHITECTS

UK National Annex

Description
unique identifier should be defined for each organization on joining the project.

Standard Codes
N/A

Length
3 - 6 characters

Additional Comments
Used to identify the organization responsible for producing the information within the information container.

UK National Annex with corrigendum

Description
unique identifier should be defined for each organization on joining the project.

Standard Codes
N/A

Length
N/A

Additional Comments
Used to identify the organization responsible for producing the information within the information container.

Irish National Annex

Description
unique identifier should be defined for each organization on joining the project.

Standard Codes
N/A

Length
3 - 6 characters max

Additional Comments
Used to identify the organization responsible for producing the information within the information container. Moved in order.

Volume/Element/System

Field codification.

C+W O'BRIEN ARCHITECTS

UK National Annex

Description
A unique identifier should be defined for each volume/system and fixed within the project information standard.

Standard Codes
'ZZ' - all
'XX' - N/A

Length
2 characters

Additional Comments
Volume / System.

UK National Annex with corrigendum

Description
A unique identifier should be defined for the functional aspects of the information container breakdown structure.

Standard Codes
'ZZ' - multiple
'XX' - N/A

Length
N/A

Additional Comments
Functional Breakdown.
This can be based on physical subdivision or notional subdivision.

Irish National Annex

Description
A unique code should be defined for each element or system and fixed within the project information standard.

Standard Codes
'Z' - multiple
'X' - N/A

Length
N/A

Additional Comments
Element or System. Now optional. Codes should be chosen from an established industry or project defined codification system.

Level/Location/Spatial

Field codification.

C+W O'BRIEN ARCHITECTS

UK National Annex

Description
A unique identifier should be defined for each level/location.

Standard Codes
'ZZ' - multiple
'XX' - N/A
01, 02, etc.

Length
2 characters

Additional Comments
Level / Location.

UK National Annex with corrigendum

Description
A unique identifier should be defined for each spatial subdivision.

Standard Codes
'ZZ' - multiple
'XX' - N/A
No more defined.

Length
N/A

Additional Comments
Spatial Breakdown.

Irish National Annex

Description
A unique code should be defined for each spatial zone and/or level.

Standard Codes
'Z' – multiple (spatial zone)
'X' - N/A (spatial zone)

'ZZZ' – multiple (level)
'XXX' - N/A (level)
L00, L01, L02, etc.

Length
6 characters max (spatial zone)
3 characters (level)

Additional Comments
Spatial Zone & Level, both optional.

Information Type/Form

Field codification.

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UK National Annex

Description
A unique identifier should be defined for each type of information.

Standard Codes
'M3' – 3D model
'DR' – drawing
Etc.

Length
2 characters

Additional Comments
Type.
Uniclass 2015 FI Table generally used for codes.

UK National Annex with corrigendum

Description
A unique identifier should be defined for each form of information.

Standard Codes
'D' - drawing
'M' - model
Etc.

Length
N/A

Additional Comments
Form.
BS ISO 29845 used for codes to avoid duplicating the classification metadata.

Irish National Annex

Description
A unique code should be defined for each information type.

Standard Codes
'M3' – 3D model
'DR' – drawing
Etc.

Length
2 characters

Additional Comments
Information Type.
Uniclass 2015 FI Table generally used for codes.

Project Role/Discipline

Field codification.

C+W O'BRIEN ARCHITECTS

UK National Annex

Description
A unique identifier should be defined for each role on the project that an organization is assigned.

Standard Codes
'A' – architect
'B' – building surveyor
Etc.

Length
1 or 2 characters

Additional Comments
Role.
Uniclass 2015 RO Table generally used for codes.

UK National Annex with corrigendum

Description
A unique identifier should be defined for each discipline to which information is related on the project.

Standard Codes
'A' – architecture
'B' – building surveying
Etc.

Length
N/A

Additional Comments
Discipline. If produced by a team within the appointing party (client), then this field is used to denote the technical specialism of that team.

Irish National Annex

Description
A unique identifier should be defined for each project role(s) of an organisation.

Standard Codes
'AR' – architect
'BS' – building surveyor
Etc.

Length
2 characters max

Additional Comments
Project Role.
New two character roles in NA.

Number

Field codification.

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UK National Annex

Description
A sequential number should be assigned to each information container when it is one of a series.

Standard Codes
N/A

Length
4 – 6 integer numeric digits

Additional Comments
Leading zeros should be used and care should be taken not to embody information that is present in other fields.

UK National Annex with corrigendum

Description
When an information container ID is not unique using all the other fields, then this should be achieved using a sequential number

Standard Codes
N/A

Length
Fixed within Project Info. Standard

Additional Comments
Leading zeros should be used and care should be taken not to embody information that is present in other fields.

Irish National Annex

Description
A sequential number should be defined for each information container.

Standard Codes
N/A

Length
3 – 6 digits

Additional Comments
Leading zeros should be used and care should be taken not to embody information that is present in other fields. Numbers may be grouped to facilitate project requirements.

Status Codes

Information container metadata.

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UK National Annex

Work in progress (WIP)
S0 – Initial status

Shared (non-contractual)
S1 – Suitable for coordination
S2 – Suitable for information
S3 – Suitable for review & comment
S4 – Suitable for stage approval
S5 – Withdrawn
S6 – Suitable for PIM authorization
S7 – Suitable for AIM authorization

Published (contractual)
A1, An, etc. – Authorized & accepted
B1, Bn, etc. – Partial sign-off

Published (for AIM acceptance)
CR – As constructed record document

UK National Annex with corrigendum

Work in progress (WIP)
S0 – Within task team

Shared (non-contractual)
S1 – Suitable for coordination
S2 – Suitable for information
S3 – Suitable for review & comment
S4 – Suitable for review & authorization
S5 – Suitable for review & acceptance

Published (contractual)
A1, An, etc. – Authorized & accepted
B1, Bn, etc. – [DEPRECATED]

Irish National Annex

Purpose codes
P1 – Information
P2 – Coordination
P3 – Planning Permission
P4 – Fire Safety Certificate
P5 – Disability Access Certificate
P6 – Building Control Compliance
P7 – Pre-tender submission
P8 – Tender
P9 – Contract / construction
P10 – Handover

Acceptance codes
S – Issued
A – Accepted
B – Accepted subject to comments
C – Rejected
D – Acceptance not required

Revision Codes

Information container metadata.

C+W O'BRIEN ARCHITECTS

UK National Annex

Preliminary revisions
Preliminary revisions of information containers should be two integers, prefixed with the letter 'P', e.g. P01.

Preliminary revisions of information containers in the Work in Progress (WIP) state should also have a two-integer suffix to identify the version of the preliminary revision, e.g. P02.05.

Contractual revisions
Contractual revisions of information containers should be two integers, prefixed with the letter 'C', e.g. C01.

UK National Annex with corrigendum

Preliminary revisions
Preliminary revisions of information containers should be two integers, prefixed with the letter 'P', e.g. P01.

Preliminary revisions of information containers in the Work in Progress (WIP) state should also have a two-integer suffix to identify the version of the preliminary revision, e.g. P02.05.

Contractual revisions
Contractual revisions of information containers should be two integers, prefixed with the letter 'C', e.g. C01.

Irish National Annex

All revisions
A sequential number should be used to identify the revision of an information container. Revision code numbering should:

- Start with '0';
- Exclude prefixes;
- Exclude leading zeros;
- Increase sequentially by one integer; &
- Only relate to associated information container.

Revisions codes should be accompanied by a description to identify associated changes, stored in separate metadata.

First Look at the Irish NA to ISO 19650-2:2018

Learning outcomes and key take-aways (hopefully).

Consideration 01

The fact that Ireland now has a National Annex is great, and a big thanks to those that put in the effort to make it happen. Of course, there are areas that could be improved, but it does resolve a lot of issues.

Consideration 02

With the Irish and UK markets so interlinked, companies operating and based in both regions, was there really a need for the Irish National Annex to be as different as it is?

Consideration 03

With sections of the Irish National Annex being based on the UK National Annex pre-corrigendum, will the Irish National Annex soon be updated to reflect these amendments also?

Consideration 04

With so much great guidance already produced for the UK National Annex, from the likes of the UK BIM Framework and others, will similar be produced for the Irish National Annex to help adoption?

THANK YOU

QUESTIONS?

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