### Online Assessment and Schedule of Documents



An Oifig Náisiúnta um Rialú Foirgníochta NATIONAL BUILDING CONTROL OFFICE

Website: www.localgov.ie Twitter: <a>@NBCOIreland</a>

YouTube: NBCO DCC

### **CPD Day Commencement Notices**

15th November 2023

- > Education & Training
- **≻**Compliance Support
- **≻**Inspections
- > BCMS

support@nbco.gov.ie































# Requirements for Schedule of Documents and Online Assessment under Article 9 of the Building Control Regulations; 9 (b) (i) II & III

- 9. (1) A commencement notice shall be—
- (a) filed electronically on the Building Control Management System or set out in the form for that purpose included in the Second Schedule, and
- (b) (b) subject to paragraph (2), accompanied by—
  - (i) such plans, calculations, specifications and particulars as are necessary to outline how the proposed works or building will comply with the requirements of the Second Schedule to the Building Regulations relevant to the works or building concerned, and including—
    - (I) general arrangement drawings including plans, sections and elevations,
    - (II) a schedule of such plans, calculations, specifications and particulars as are <u>currently designed</u> or as are to be <u>prepared at a later date</u>,
    - (III) the completion of an online assessment, via the Building Control Management System, of the proposed approach to compliance with the requirements of the Second Schedule to the Building Regulations,
    - (IV) the preliminary Inspection Plan prepared by the Assigned Certifier, and
  - (ii) the following certificates and notices ...

### **Outline of Presentation**

- Purpose of Online Assessment
  - Proposed approach to compliance with the requirements of the Second Schedule to the Building Regulations
    - Risk identification for Designers
    - Risk Assessment for Building Control Authorities
    - Outline of Building Regs and Common Defects
    - Risk Index
- Online Assessment;
  - Creation of Notice on BCMS
  - Building Particulars
  - Parts A-M
  - As a Data Resource Data Portal
- Schedule of Documents Q6 of the Commencement Notice
  - Upload on BCMS
  - Examples of Schedule of Documents

# Purpose of Online Assessment

### **Risk identification for Designers:**

When correctly completed Online Assessment identifies risk of a non-compliance with the Building Regulations that are present for the proposed building or works and can utilised as a part as risk identification in relation to the Building Regulations.

The Online Assessment has been designed in association with the Building Control Authorities, the Building or Works must be considered in relation to the Building Regulations, the proposed building and required information submitted to the Building Control, e.g., Part C (Site Preparation and Resistance to Moisture)



- Has the latest Radon Map been checked?
- Is the proposed building located in the High Radon area, has the rising wall/DPC level been detailed to include for Radon Barrier?
- Has Radon barrier been specified in accordance with Part C and Part D (Agrément Cert)?

The person completing the Online Assessment must be competent, understands the requirements of the Second Schedule to the Building Regulations and the complexities of the Building or Works and the Site to complete it correctly.

# Brief Outline of the 12 Parts of the Building Regulations

Brief Outline of the 12 Parts of the Building Regulations- Building Control Act 1990-2007					
Part A: Structure A building must be designed and constructed so that any building loading including imposed & wind and/or ground movement to not impair the stability of the building or any part of it.	Part E: Sound Walls & Floors shall be designed & constructed to have reasonable resistance to airborne and impact sound.	Part J: Heat Producing Appliances Shall be designed to reduce to a reasonable level the risk of the building catching fire; be installed that there is an adequate supply of air to it for combustion & discharge combustion products to the outside air via an efficient working flue pipe or chimney.  Fixed oil storage tank which shall be located as to reduce to a reasonable level the risk of fire Spread			
Part B: Fire A building must have adequate means of escape in case of fire to a place of safety outside. Internal linings & Walls common to two or more buildings that offer adequate resistance to fire spread. Concealed Spaces that are protected to prevent the unseen spread of fire and smoke. External walls and roof that afford adequate resistance to the spread of fire to and from neighbouring buildings. There shall be provision for access for fire appliances.	Part F: Ventilation  Adequate means of ventilation shall be provided for people in buildings; the purpose being to limit the moisture content of the air within the building so that it does not contribute to condensation and mould growth, and limit the concentration of harmful pollutants in the air within the building.  Adequate provision shall be made to prevent excessive condensation in a roof or in a roof void above an insulated ceiling.	The sides of every vehicle ramp and every floor and roof to which vehicles have			
Part C: Site Preparation & Resistance to Moisture Sites should be properly cleared from vegetable matter. Is Subsoil drainage provided where necessary. Has Reasonable precautions been taken to avoid Dangerous substances including contaminants such as Radon. Is the building Resistance to weather in that it does not allow the passage of moisture to the inside of the building or cause damage to the fabric of the building.	Part G: Hygiene A building should have a bathroom containing a bath or shower bath, a washbasin; a kitchen containing a sink and draining board; adequate sanitary convenience (maximum flush) with washing facilities; a suitable installation for the provision of hot and cold water to them. Underground service pipe from meter/stopcock to the dwelling have a minimum cover of 600mm. Cold water cistern, located in attic, to have top and sides of the cistern insulated.	Part L: Conservation of Fuel & Energy A building shall be designed and constructed so as to ensure that the energy performance of the building is such as to limit the amount of energy required for the operation of the building. and the amount of carbon dioxide (CO2) emissions associated with this energy use insofar as is reasonably practicable i.e. the requirements so that the building can be operated in such a manner as to use no more fuel and energy than is reasonable.			
Part D: Materials & Workmanship  All works shall be carried out with  proper materials and in a workmanlike manner. Materials should be fit for the use and the conditions for which they are intended and should be properly certified with a CE Marking or have an approved Agrément Board Certificate.	Part H: Drainage & Wastewater Disposal There should be adequate and independent disposal of foul and surface water from the building. Wastewater treatment system shall be so designed, sited and constructed that it does not cause a public safety and/or pollution risk	Part M: Acceass & Use Adequate provision shall be made for people to access and use a building, its facilities and its environs, extensions.  If sanitary facilities are provided in a building that is to be extended, adequate sanitary facilities shall be provided for people within the extension.			

# Some Common Defects in New Buildings

Some Common Defects in New Buildings		
Part A- Render/Stucco; defects associated with render are usually excessive cracking. Cracking can be caused by a number of issues. Structural deficiencies are one of the leading causes. Structural components such as a shear walls (timber wall) are either missing or improperly installed causing the stucco to bear a load that it wasn't designed to bear. Soil or underfloor fill settlement and/or heaving can also cause render. Another cause is render shrinkage. This is normally due to improper mix or mix applied in severe weather conditions.  Balconies and Decks; Balconies and decks have many of the same problems as roofs. Usually, there are installation problems involving the underlayment and flashing. Ponding of water on the decks is also an issue. Ponding will cause the premature deterioration of the deck surface.  Non Standard Construction Methods and/or Materials: Balcony construction, flashing water proofing  Structural issues; Wall ties, Vents in cavity walls, Sound insulation and incorrect fixing/sealing  @ wall/floor/ceiling joints	Part B- Fire Stopping: Top of Party walls; missing or have incorrectly fitted mineral fibre quilt fire stopping over non-combustible building board cavity barrier or other type of fireproofing material designed to prevent fire from spreading across Party Walls i.e. the space between the top of the party wall and the roof is not sealed to adequately prevent the spread of fire/smoke. Plasterboard with staggered joints. Eaves at Party Wall/external wall Vertical at Party Wall/external; Wall Vents; inadequately fixed or no cavity barrier around wall vents Ceilings-fire rating Stairways; encasement Means of Escape; smoke alarms Fire Detection and Alarm Systems	Part C- Exterior leaks The most common problems, which also happen to be the most expensive to fix, are leaks in the building's protective envelope, roofing and exterior insulation.  Part C-A Exterior walls; have insulation requirements and often builders don't follow them properly; fixing of dpc, bonding, jointing, air vents, wall ties which results in early defects usually visible and others that do not manifest until moisture leaks inward and causes damage inside the building to cause mould growth  Balcony construction, flashing water proofing  Part D- Roofs; There are so many different qualities of roof systems, flashing, jointing, materials Windows: The operation of windows defects in the window locks, failure to open, failure in gaskets or drafts in window perimeters; This can be a sign of soil settlement, structural deficiencies or just a bad product; flashing, location of horizontal and vertical cavity barriers @ heads and jambs respectively; cill fittings, dpcs  Sloppily installed or defective timber floors: curving upward, the finish is not correct, warped, big gaps between the boards; often floor is an engineered floor system which is not properly installed; underfloor leak.
Part E- Non Standard Construction Methods and/or Materials: timber floors, soft coverings for sound. Balcony construction, flashing water proofing	Part J- Flue Pipes gas burning appliances;- separated from combustible materials; encased in a non-combustible sleeve where they pass through a wall, floor or roof. Flue Pipes-solid fuel appliances; separated from combustible materials; encased in a non-combustible sleeve where they pass through a wall, floor or roof Heat Producing appliances; check the distances required for separating these appliances with air space and non combustible shields from combustible materials	Part F- Ventilation: Owners often complain about smells and bad ventilation in public hallways, or inadequate exhaust in bathrooms or kitchens.  Mould Growth
		Part G- Incorrect WC flush 600mm cover service pipe from stopcock Connection of foul sewer to surface water No insulation attic tank

# Purpose of Online Assessment

#### **Risk Assessment for Building Control Authorities:**

Building Control Officers can utilise the Online Assessment as part of their Risk Assessment as noted in the Framework for Building Control Authorities



https://nbco.localgov.ie/sites/default/files/framework\_for\_building\_control\_authorities\_june\_2016\_0.pdf

#### 4.3 Risk assessment approach

Building Control Authorities should establish procedures so that assessments of all projects are carried out in a transparent and consistent manner. Factors that would be taken into account when carrying out a risk assessment include:

- (a) Type and use of building;
- (b) Location of the development
- (c) Form of construction and expertise of the Builder;
- (d) How complicated or relatively straightforward the method of construction is;
- (e) Whether recent experience indicates current problems in interpreting and/or achieving compliance with certain requirements;
- (f) How serious the consequences of a particular Part A-M contravention might be; and
- (g) The impracticability or impossibility of subsequent inspection of closed up work.
- (h) Proximity to Building Control Authority offices
- (i) Developments which avail of the exemptions as set out in Building Control Amendment (No 2) Regulations of 2015, S.I. 365 of 2015

In order to ensure that a risk assessment is suitable and sufficient it should:

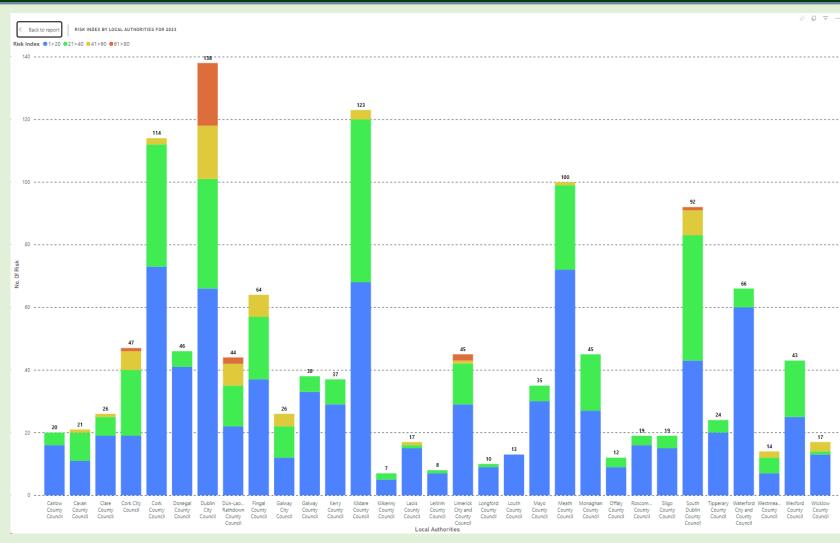
- (a) Identify the stages within a construction programme where it would be reasonable to carry out inspections, given the risk, in order to prevent or detect non-compliance;
- (b) Indicate the approximate number of inspections that would be proportionate to the risk and would reasonably be needed to survey a project as a whole and per construction stage; and
- (c) Indicate the elements that will reasonably need to be inspected at each stage, especially any that need to be highlighted to the Assigned Certifier, in order to ensure that they are available to view at the time of inspection, and to ensure that the Inspection Notification Framework is appropriately updated. Appendix IV outlines a non-complex process for inspection milestones.

### Online Assessment - Risk Index

### Risk Index

The NBCO with the assistance of Colin Barden (Waterford city and County Council) is in the process of developing a Power Bi tool that uses the parameters entered into the Online Assessment to create a Risk Index for Commencement Notices as an aid in the Risk Assessment for Building Control Authorities.

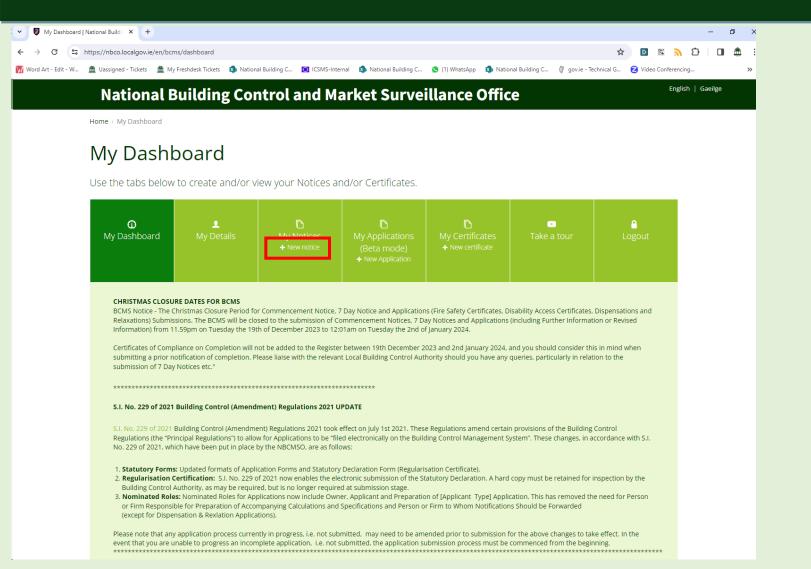


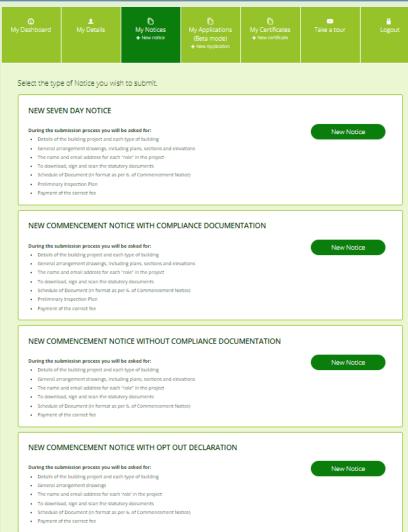


#### **NBCO**

National Building Control Office CPD Day Commencement Notice

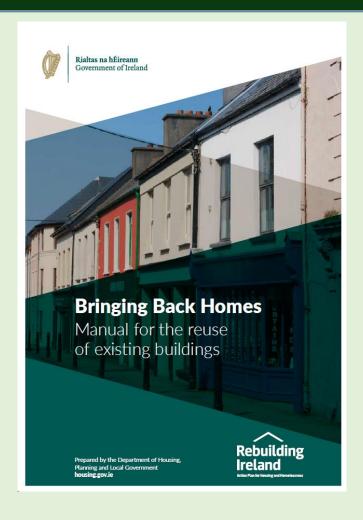
### Online Assessment – BCMS – Creation of Notice

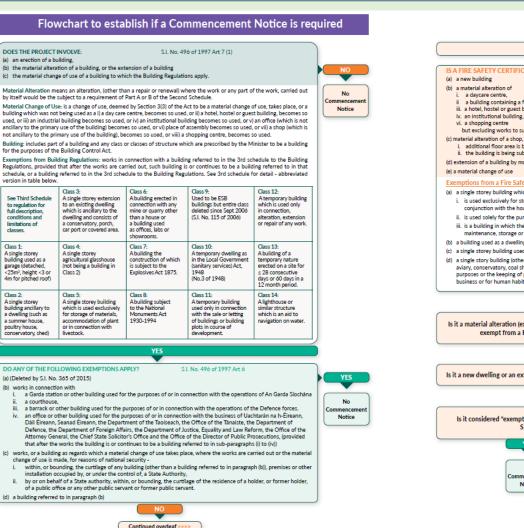


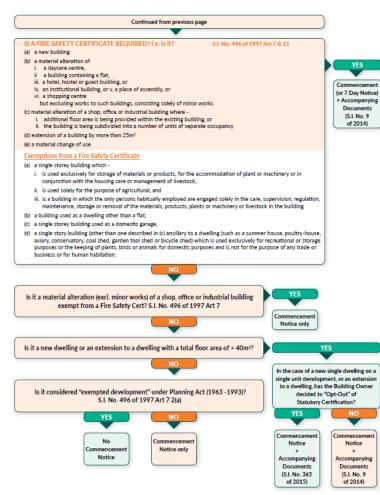


# Online Assessment – Selection of Commencement Notice Type

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### Online Assessment - Commencement Notices – BCMS

#### **NEW SEVEN DAY NOTICE**

#### During the submission process you will be asked for:

- Details of the building project and each type of building
- · General arrangement drawings, including plans, sections and elevations
- The name and email address for each "role" in the project
- · To download, sign and scan the statutory documents

#### Schedule of Document (in format as per 6. of Commencement Notice)

- · Preliminary Inspection Plan
- · Payment of the correct fee

#### NEW COMMENCEMENT NOTICE WITH COMPLIANCE DOCUMENTATION

#### During the submission process you will be asked for:

- Details of the building project and each type of building
- · General arrangement drawings, including plans, sections and elevations
- . The name and email address for each "role" in the project
- · To download, sign and scan the statutory documents

#### Schedule of Document (in format as per 6. of Commencement Notice)

- Preliminary Inspection Plan
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#### NEW COMMENCEMENT NOTICE WITHOUT COMPLIANCE DOCUMENTATION

#### During the submission process you will be asked for:

- Details of the building project and each type of building
- · General arrangement drawings, including plans, sections and elevations
- The name and email address for each "role" in the project
- · To download, sign and scan the statutory documents
- Schedule of Document (in format as per 6. of Commencement Notice)
- · Payment of the correct fee

#### NEW COMMENCEMENT NOTICE WITH OPT OUT DECLARATION

#### During the submission process you will be asked for:

- Details of the building project and each type of building
- · General arrangement drawings
- . The name and email address for each 'role' in the project
- · To download, sign and scan the statutory documents

#### Schedule of Document (in format as per 6. of Commencement Notice)

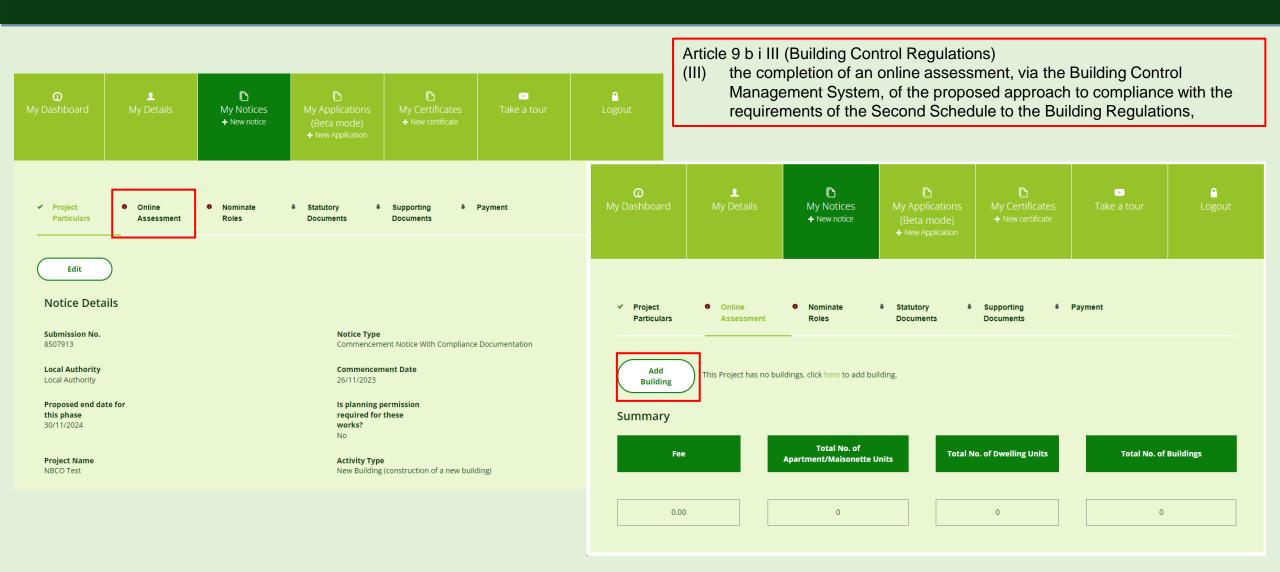
· Payment of the correct fee

All types of Commencement Notices require the submission of;

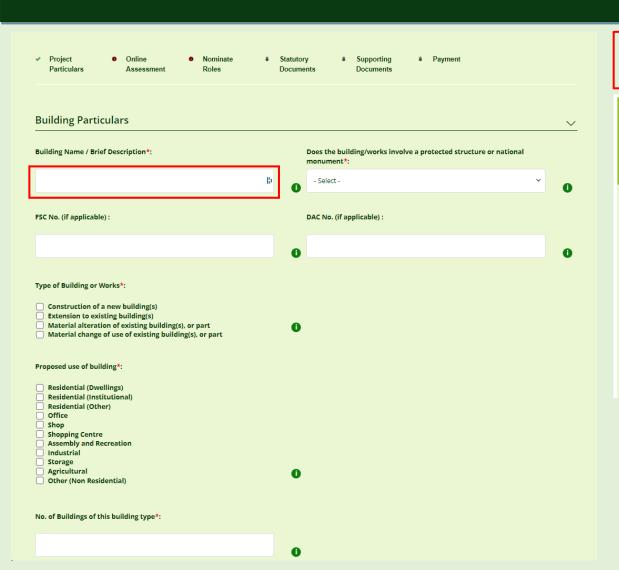
Details of building project and each type of Building – Online Assessment

Schedule of Documents (in format as per Q6. of the Commencement Notice), including as designed and to be designed

# Online Assessment on Building Control Management System



# Online Assessment – Building Particulars



If you have several buildings on the same Commencement Notice, use sensible names to differentiate them. · My Notices + New notice Project Online Phasing Nominate Statutory Supporting Payment Particulars Assessment Roles **Documents** Documents **Building Identifier** Purpose group Options **Building Identifier** Semi-detached dwellings Residential (Dwellings)

Semi-detached dwellings

Semi-detached dwellings

Semi-detached dwellings

Semi-detached dwellings

Semi-detached dwellings

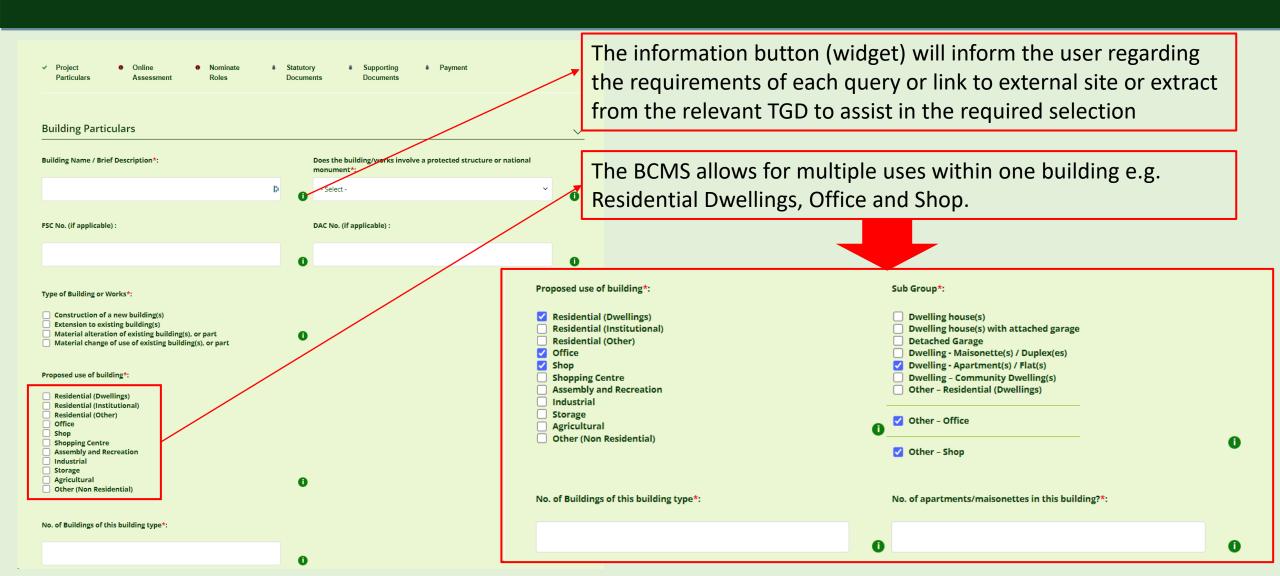
Detached dwelling

Residential (Dwellings)

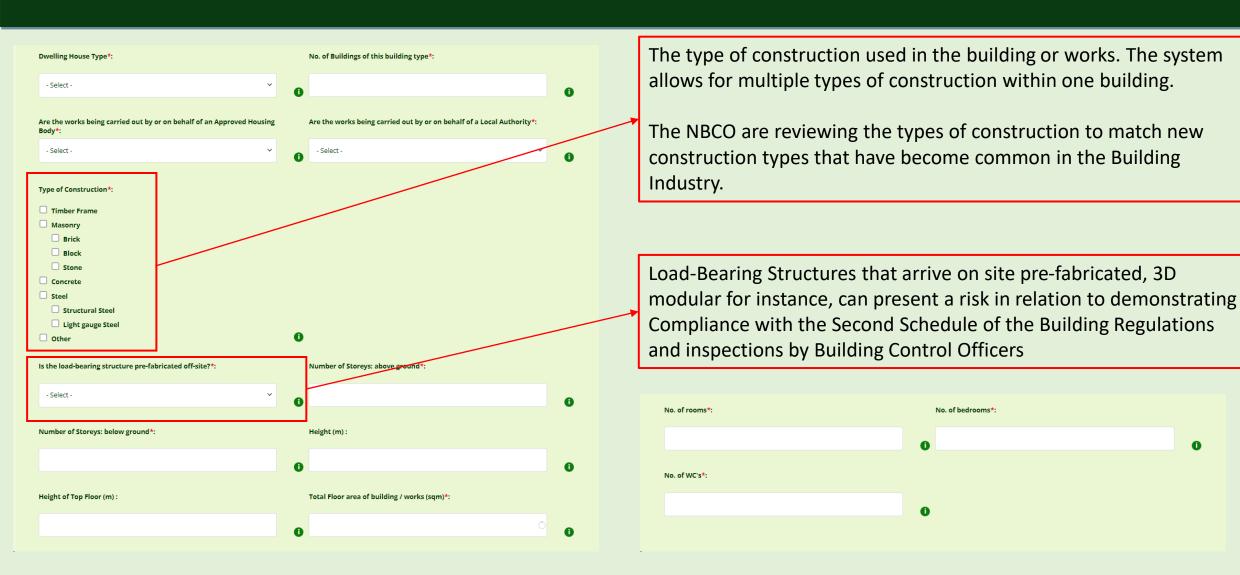
Residential (Dwellings)

In this validated notice all there are 3 types of Semi-detached dwellings all with the same Building Identifier

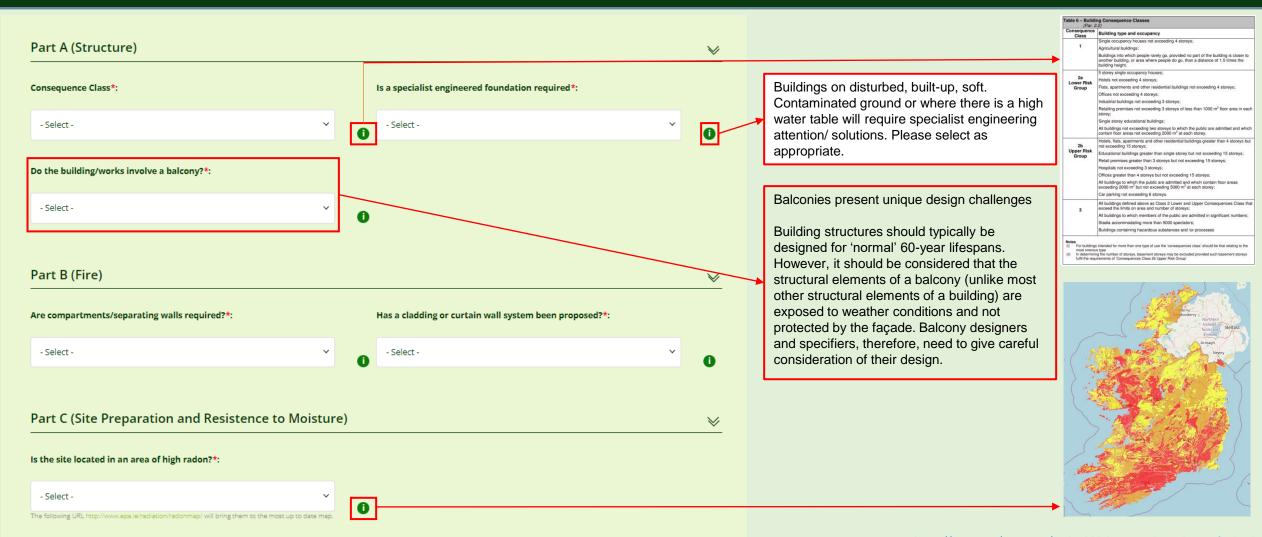
# Online Assessment – Building Particulars



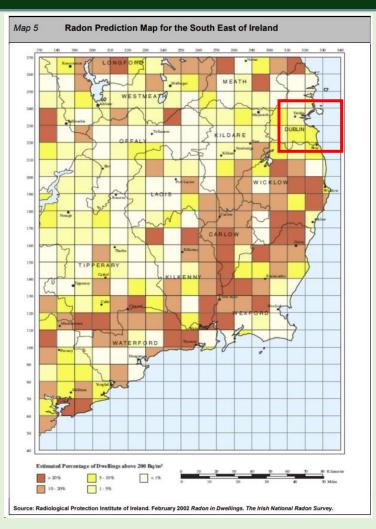
# Online Assessment – Building Particulars

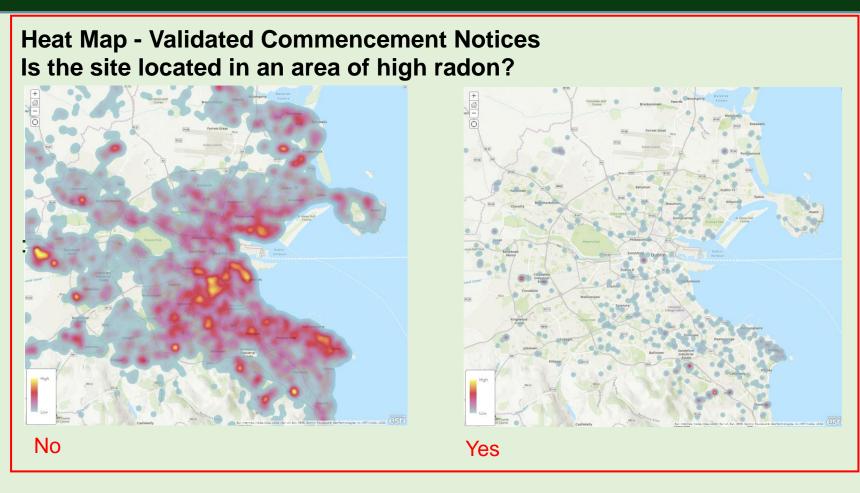


### Online Assessment –Parts A to C



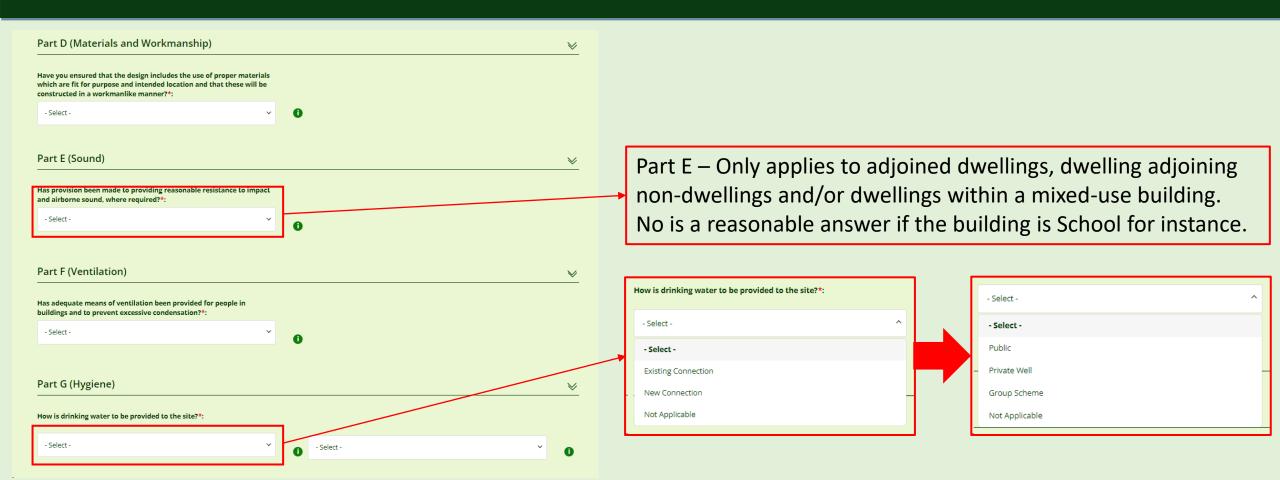
# Online Assessment – Analysis of responses to Part C question



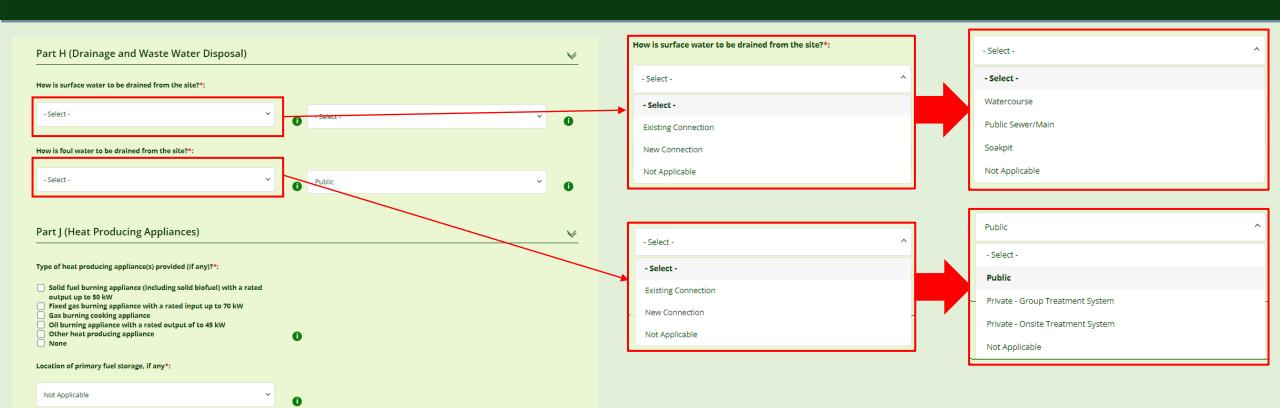


It is clear that significant portion of the Online Assessments in are being incorrectly filled out in relation to Part C.

### Online Assessment – Parts D to G

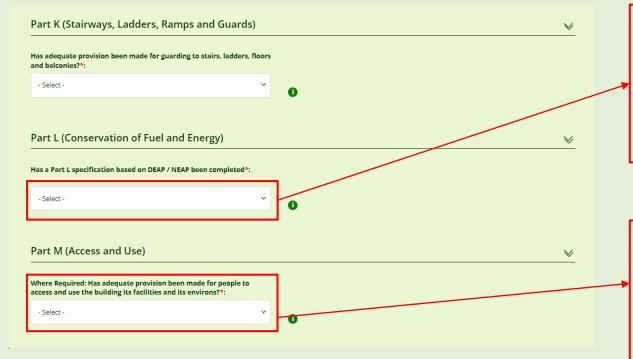


### Online Assessment – Parts H to J



### **NBCO**

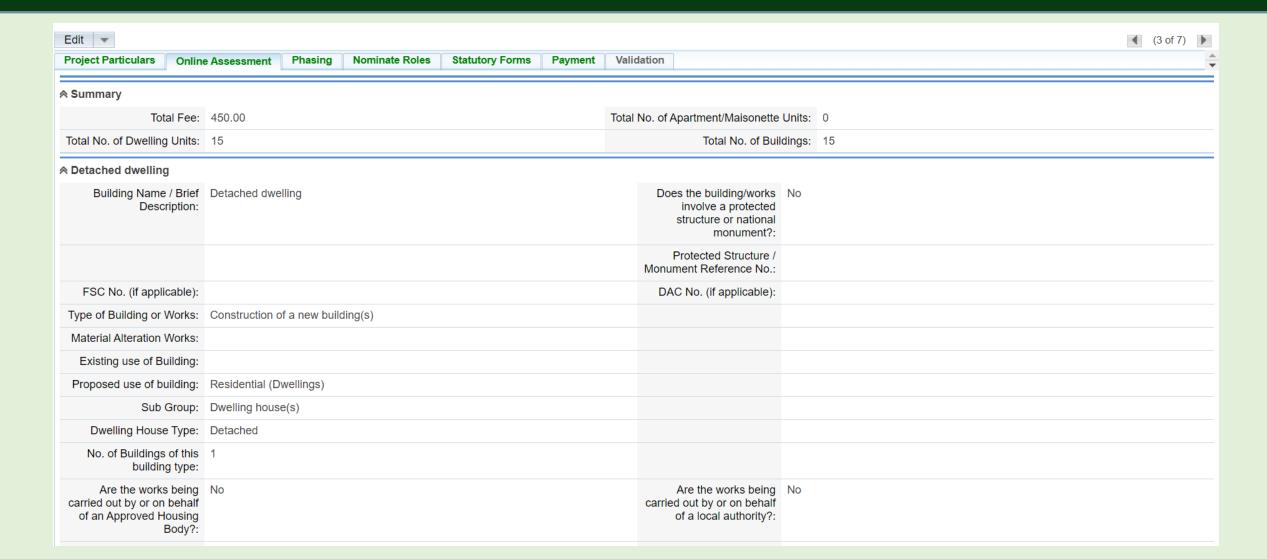
### Online Assessment – Parts K to M



A preliminary BER report illustrating Compliance with Part L should be available for all Commencement Notices including Commencement Notice with Opt-Out Declaration, to outline how the building as designed is going to comply with the Building Regulations Part L.

Where a DAC is not provided with the Commencement Notice, access from boundary, the provision of level thresholds, minimum widths of corridors/doors and provision of Accessible WC should be illustrated to demonstrate compliance with Building Regulations Part M.

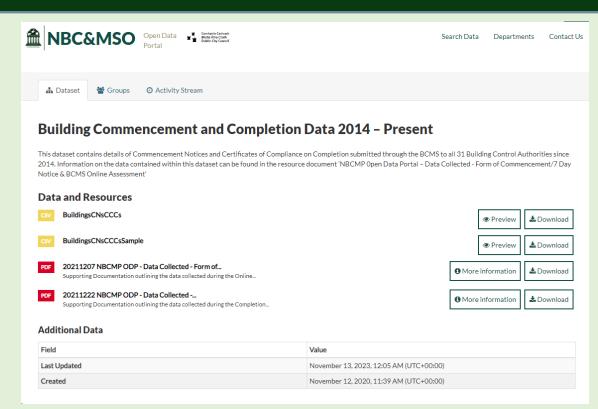
# Online Assessment – Building Control Interface



### Online Assessment as a Data Resource

The data set collect by the Online Assessment is update on to Open Data Portal and is referenced by the following Organisations;

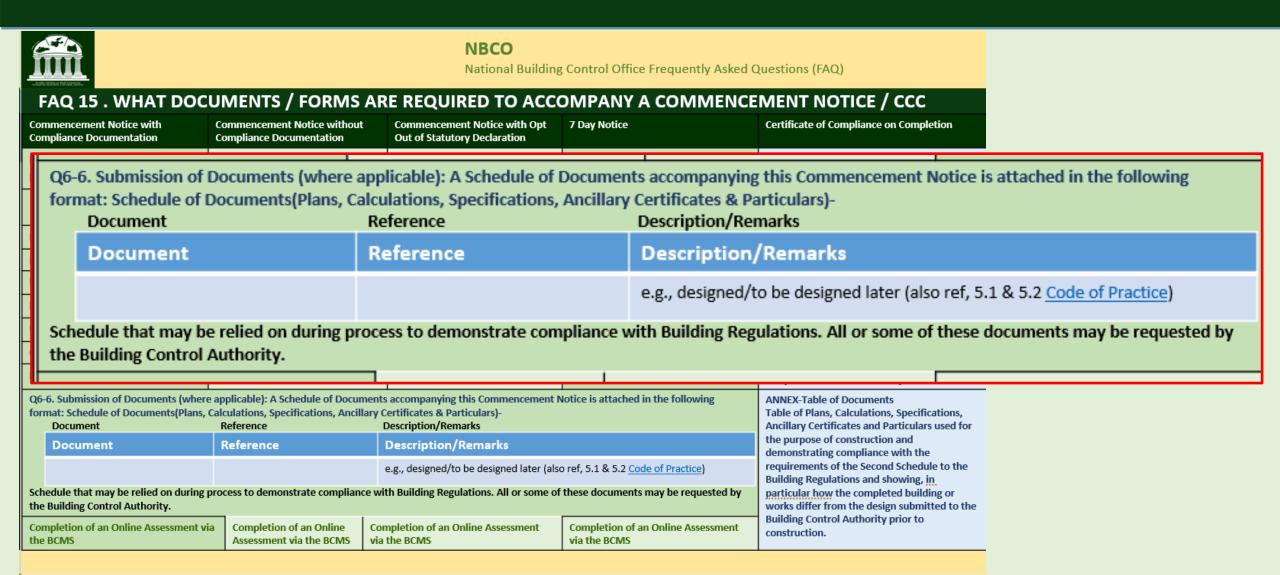
- Central Statistics Office (CSO)
- BuildingInfo
- AL Goodbody
- Tailte Éireann (The Valuation Office)
- Department of Housing and Local Government and Heritage (Statistics and Data Analytics Unit SDAU) for monthly housing statistics
- Department of the Taoiseach
- Large Developers and Builders



#### https://data.nbco.gov.ie/dataset/bcnccc

CN_Proposed_use_of_building	CN_Sub_Group	CN_Number_of_Buildings_of_this_building_type	CN_Type_of_Construction	CN_Height	CN_FSC_Number	CN_DAC_Number	CN_Material_Alteration_Works	CN_Consequence_Class	CN_Height_of_Top_Floor
^11_agricultural^	^11_agricultural_bui	1	^concrete^,^masonry^	8.25			^not_available^		L
^2_residential_insti	^2_hospital^	1	^concrete^	0			^part_a_and_b^		·
^1_residential_dwell	^1_dwelling_house^	1	l^block^	7.96					4.24
^1_residential_dwell	^1_dwelling_house^	1	^masonry^	8.5			^not_available^		L
^1_residential_dwell	^1_dwelling_house^	1	^block^	6					0
^1_residential_dwell	^1_dwelling_house_at	1	^masonry^,^block^	8.3					3
^1_residential_dwell	^1_dwelling_house^	1	^masonry^,^block^	5.5			^part_a^,^part_b^,^p		36
^1_residential_dwell	^1_dwelling_house^	1	^composite_materials	8.75			^not_available^		
^1_residential_dwell	^1_dwelling_house^	7	^timber_frame^	9.95			^not_available^		

### Q6 of the Commencement Notice



### Q6 of the Commencement Notice: Code of Practice: Sections 5.2 & 5.3

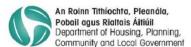
### **Code of Practice**

or

Inspecting and Certifying Buildings and Works

Building Control Regulations 1997 to 2015

September, 2016





#### 5.2 Other Documentation

Key documents as is appropriate should be submitted depending on the particular building works.

Structural calculations and site investigation reports do not have to be submitted at commencement stage. However, they should be kept and made available on request to the Building Control Authority. The information should be provided to the Building Control Authority within two weeks of being requested.

#### 5.3 Lodgement of plans at later stage

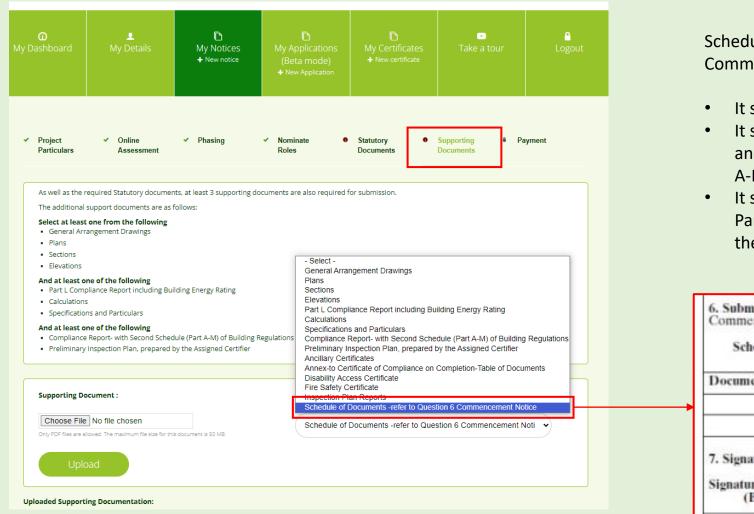
Design work that is due for completion and specialist design that is not available for submission at commencement stage should be certified and submitted at a later stage. Drawings and documentation for these designs should be submitted before the relevant work commences, with Ancillary Certificates of Compliance, where appropriate. Similarly, drawings and documentation for significant changes or omissions should be certified and submitted before the relevant work commences.

# **Building Control Regulations (1997-2021) Certificate of Compliance on Completion** *Article* **20F**

....

- (3) A Certificate of Compliance on Completion shall be—
- (a) in the form specified for that purpose in the Sixth Schedule, and
- (b) accompanied by such plans, calculations, specifications and particulars as are necessary to outline how the works or building as completed—
  - (i) differs from the plans, calculations, specifications and particulars submitted for the purposes of Article 9(1)(b)(i) or Article 20A(2)(a)(ii) as appropriate (to be listed and included at the Annex to the Certificate of Compliance on Completion), and
  - (ii) complies with the requirements of the Second Schedule to the Building Regulations, and

# Q6 of the Commencement Notice: Upload on BCMS

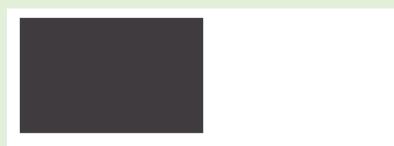


Schedule of Documents for Question 6 must be uploaded with the Commencement Notice.

- It should be in the format as shown in Question 6
- It should list all Plans, Calculations, Specifications, Ancillary Certs and Particulars relied on to demonstrate compliance with the Parts A-M of the Building Regulations
- It should list Plans, Calculations, Specifications, Ancillary Certs and Particulars not yet designed that will demonstrate compliance with the Parts A-M of the Building Regulations

Commencement Notice	e is attached in the following	pecifications, Ancillary Certificates and
Document	Reference	Description/Remarks
7. Signature by Buildi	ng Owner:	
Signature:— (Building Owne	r)	Date:

### Q6 of the Commencement Notice: Incomplete Schedules of Documents

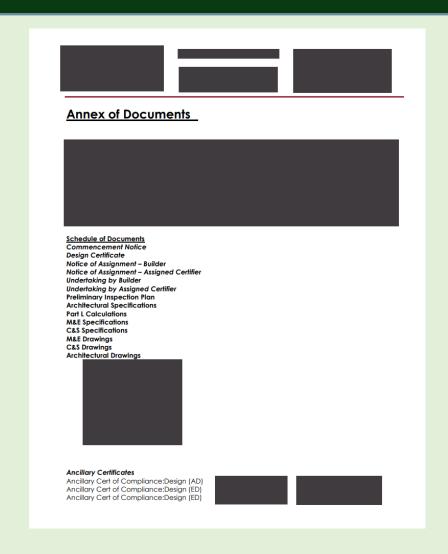


April 2019

Dear Sir/Madam,

Enclosed please find the following:

- · Form of commencement
- Notice of Assignment by builder
- Declaration of Intention
- Plans/Elevations Drawings



# Q6 of the Commencement Notice: Acceptable Schedule of Documents

Schedule of Supporting Documents				
File No.	Description	Status		
Architectural Drawings				
Combined Arch Drawings p1	Plans	Uploaded		
Combined Arch Drawings p2	Plans	Uploaded		
NBS Specification Document	Specifications and Particulars	Uploaded		
Mechanical and Electrical Drawings				
Combined Electrical Drawings	General Arrangement Drawings	Uploaded		
Combined Mechanical Drawings	General Arrangement Drawings	Uploaded		
Civil and Structural Drawings				
Combined Civil Drawings	General Arrangement Drawings	Uploaded		
Combined Structural Drawings	General Arrangement Drawings	Uploaded		
-				
Part L Report				
-Part L dwelling-report	Part L Compliance Report	Uploaded		
Preliminary Inspection Plan		T		
-Preliminary Inspection Plan for Commencement	Preliminary Inspection Plan prepared by the Assigned Certifier	Uploaded		
Statutory Documents				
-Form_of_commencement_notice_for_development signe	d Commencement Notice	Uploaded		
Design_Certificate at Commencement	Design Certificate	Uploaded		
igned Notice of Builder	Notice of Assignment (Builder)	Uploaded		
igned Notice of AC	Notice of Assignment (Assigned Certifier)	Uploaded		
Indertaking by Builder Form	Undertaking By Builder	Uploaded		
igned Undertaking by AC	Undertaking by Assigned Certifier	Uploaded		
- Supporting Documentation List -	Supporting Documentation List	Uploaded		

# Interrogating a Schedule of Documents

Documents	Reference	Description / Remarks	
GA Plans	AA001	Ground and First Floor A1: 1:100	
GA Sections	AA002	Section X-X & Section Y-Y A1: 1:00	
GA Elevations	AA003	A1: 1:100 Scale	
Rising Wall and Threshold Details	AA100	To be Designed	
Opes and Roof Details	AA101	To be Designed	
Architects (Specification)	Arch Spec.		
BER Report	BER	Draft BER Compliance Report	
Structural Drawings - Raft	SE001	To be Completed	
Structural Drawings - Steel	SE002	Includes Specifications	
Site Plan showing Septic Tank and percolation area	CE001	Awaiting final design	

Sample Schedule of Documents

If works are starting within 14-28 days these details should be complete.

Possible request for Revised Information to demonstrate Compliance with the Building Regulations under:

Part A - Structure

Part C - Site Preparation and Resistance to Moisture

Part D - Material and Workmanship

Part H - Drainage and Waste Water Disposal

# Thank you for your attention

### In Summary

The completion of the Online Assessment and Q6 "Schedule of Documents" are essential for demonstrating the proposed approach to compliance with the requirements of the Second Schedule to the Building Regulations, for securing the health, safety and welfare of persons in or about buildings, and persons who may be affected by buildings or by matters connected with buildings