

**STRUCTURAL INSPECTION OF  
THE BARN, WARBAGE LANE  
BELBROUGHTON, WORCESTERSHIRE**



**ENGINEERING INNOVATION**

**INSPECT : INVESTIGATE : REPAIR**

Consulting Civil & Structural Engineers | Geotechnical Investigations | Structural Inspections  
Expert Reporting | Structural Repair Specialists | Foundation Systems



## Customer Details

Date	<b>23/04/2021</b>
Client	<b>Mrs Evans</b>
Property Address	<b>The Barn, Warbage Lane, Belbroughton Worcestershire</b>
Shire Ref number (our ref)	<b>S-21-188</b>
Report prepared by	<b>Richard Hartshorne – 07976 691472</b>

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## 1. Introduction

- 1.1 The barn is located adjacent to Warbage Lane in Belbroughton, Worcestershire.
- 1.2 The barn is of single story steel portal framed construction with a duo pitched metal clad roof and low-level cavity brickwork/ blockwork walling to all elevations with metal cladding over. The front elevation of the barn contains a roller shutter door and a personnel door. We believe the building was constructed in the 2000's.
- 1.3 It is intended to convert the barn to residential accommodation through a Class Q Planning Application.
- 1.4 Shire Consulting was appointed to carry out a structural inspection of the barn and report upon its findings and suitability to support a Class Q application.
- 1.5 The inspection was carried out on Friday 23<sup>rd</sup> April 2021 and the weather at the time of inspection was dry and sunny.
- 1.6 The inspection comprised a visual inspection only and any areas of structure which are either buried or hidden from view, were not inspected, and we are unable therefore to report such areas as free from defect.

## 2. General

- 2.1. The building is of single storey steel portal framed construction with low level masonry cavity walls.
- 2.2. The building is clad in insulated composite panels

## 3. External Inspection

- 3.1 The roof cladding is in good condition with no defects noted.
- 3.2 The North East (Front) elevation of the building contains a roller shutter door and personnel door. All of the cladding and low-level masonry are in good condition



- 33 The South East elevation of the building is in good condition with only some minor damage to low level brickwork adjacent to the personnel door



- 34 The South West elevation of the building is in good condition with no defects noted



3.5 The North West elevation is obscured by a hedgerow and could not be inspected.

#### 4. Internal Inspection

4.1. The steel frame comprises hot rolled steel portal frame with galvanized cold rolled sleeved system purlins and butt system side rails. The steelwork is in good condition with no corrosion noted



4.2. The ground floor slab is of in-situ concrete construction and is in good condition. It is suitable to be retained in the conversion and receive insulation and finishes on top.



- 4.3. The blockwork walls to the perimeter are all in good condition and show no signs of cracking.



## 5. Conclusions & Recommendations

- 5.1. The barn is in good structural condition with no structural defects noted to any elements.
- 5.2. The structure is suitable to be converted to residential accommodation with no additions or alterations needed to the primary structure.

Signed

*R. Y. Ho Agg*

Date

26/04/2021