
Subject Brewhouse Construction – Exhibition Loading Note

Date 4 December 2015

Job No/Ref

237037 / Kresen
Kernow

1 Introduction

1.1 Purpose of this note.

This note sets out the Imposed Loading for the exhibition space that the structure of the Kresen Kernow project will be designed for. Imposed loading is due to occupants, movable displays/partitions and the exhibits themselves.

The information contained within this document is to be reviewed by the tendering contractor. As part of the tender return the contractor shall confirm the following:

- Acceptance of proposed loading limits

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2 Design Loadings

2.1 Imposed loading

Exhibition space Imposed Loading

The loading for the exhibition space (controlled and uncontrolled) will depend on what is on display. At Kresen Kernow, we do not expect heavy and/or concentrated loads i.e. large sculptures, to be stored or on display in the exhibition spaces.

Given the likely materials being displayed, we are assuming an area load of 4.0 kPa would be appropriate. This would be similar to the V&A museum and is in line with the recommendations provided in the latest European code of practice for loading (EN 1991-1).

Area	BS EN 1991 Ref	Distributed Load kPa	Concentrated Load kN
Controlled exhibition space	Museum floor C39	4.0	4.5
Uncontrolled exhibition space [ground floor]	Museum floor C39	10.0	5.0 over 300mm SQ

The upper floor construction of the Brewhouse will be formed using a lightweight timber construction, as such point loads applied to exhibition spaces will need to be spread back to joist locations.

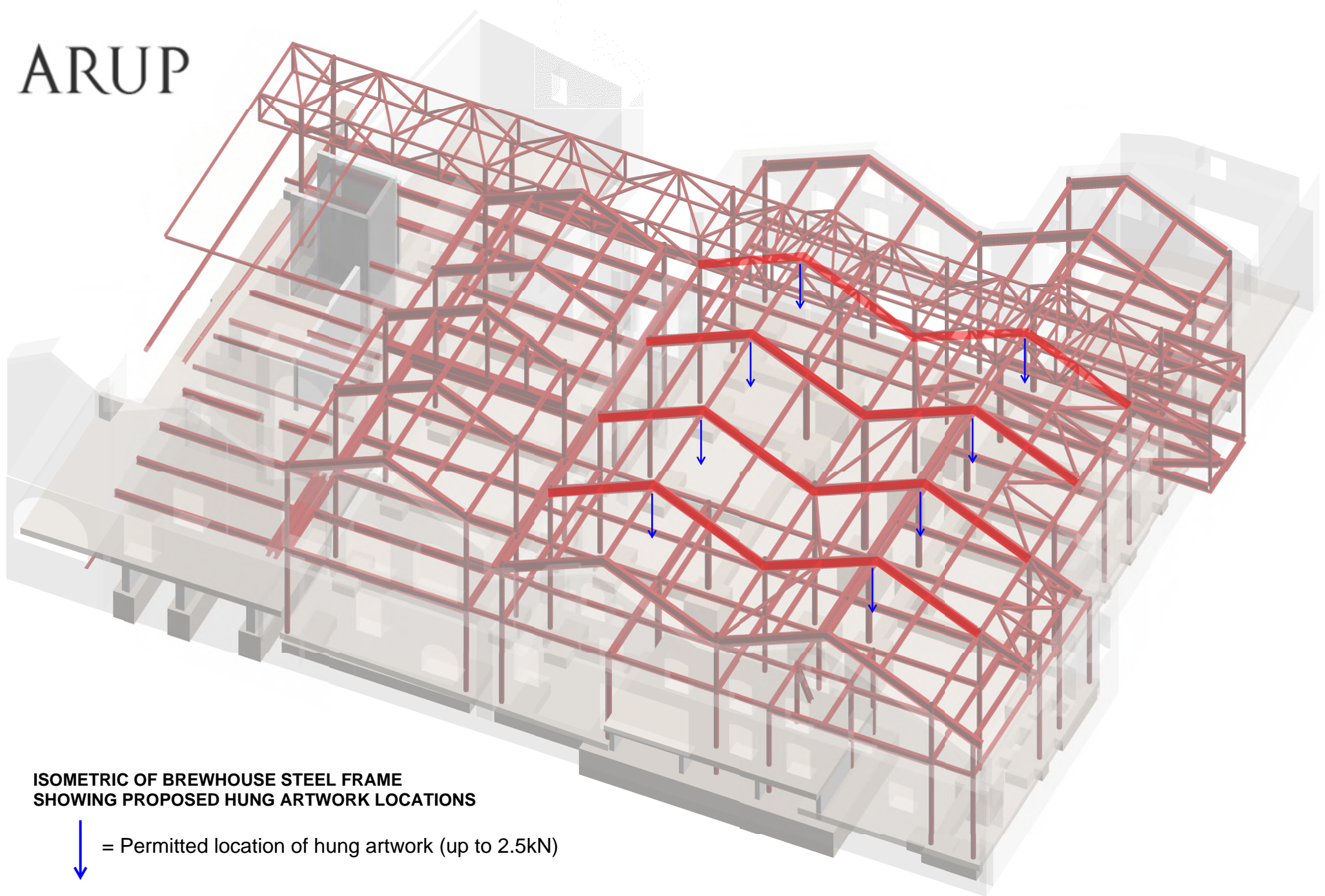
Hung exhibition loads

In addition to the above, hung exhibitions will be permitted at specific points throughout the roof structure. These will be limited to the following:

- Hung exhibition point loading: **2.5kN**.

This will be permitted at the principle rafter locations, as indicated in the following sketch.

ARUP



**ISOMETRIC OF BREWHOUSE STEEL FRAME
SHOWING PROPOSED HUNG ARTWORK LOCATIONS**



= Permitted location of hung artwork (up to 2.5kN)