

Information and Assessment to be included in the Structural Justification

1. General Requirements

- (a) Whilst the additional elements should be designed under the current provisions of the Buildings Ordinance and its subsidiary regulations, all affected structural elements should be checked in accordance with the original design principle and the prevailing codes of practice at the time of construction.
- (b) The imperial units shown in the approved plans and/or original design calculations should be converted to metric units for easy reference.
- (c) The structural integrity of the affected structures should be checked in accordance with the minimum imposed loads stipulated in section 7 of the Building (Construction) Regulation and the current Code of Practice for Dead and Imposed Loads.
- (d) The structural justification (SJ) should be certified by the authorized person/registered structural engineer and submitted on the same date of the application date.

2. Fundamental Information and Assessments to be included in the SJ (if applicable)

- (a) The original design data retrieved from the approved plans and/or original design calculations, such as material specifications, design strength, permissible stress and design imposed load should be given.
- (b) Relevant structural framing part plans should be submitted to show the affected portion of existing structures.
- (c) Relative disposition of the additional elements such as partition walls, raised screeds, over hanging air-conditioning units and cooling towers should be shown on the structural framing part plans with appropriate setting out dimensions.
- (d) The weight of all additional elements, such as partition walls and raised screeds, should be conformed to the type, size, thickness and density of the construction materials resulting from these additional works.

- (e) The assessment on structural stability of the additional partition walls should be checked in accordance with BS5628 Part 3. Also, the details of the wall restraints should be given.
- (f) The structural adequacy of the existing structures to sustain the additional loads due to additional elements should be demonstrated.

3. Specific Information to be included in the SJ (if applicable)

- (a) The manufacturer's catalogue and specification of the relevant plants and equipment should be attached in order to substantiate the design operational weight.
- (b) The design of steel frame supporting the relevant plants or equipment should be submitted. The connection details of these steel members and fixing details into existing structures should also be given.

N.B. The above information and requirements may not be exhaustive. Depending on the circumstances of individual cases, supplementary information and assessment may be required if found necessary.

(January 2026)