



Precast concrete flooring – Information sheet

Design

The units are designed and manufactured in accordance with BS8110 or the relevant Euro codes, our Quality Assurance Scheme in accordance with BS EN ISO 9001 and our interpretation of the relevant Building Regulations.

The design of the units is based on certain assumptions with regard to the site conditions, safe bearings and imposed loadings etc. detailed in our quotation. Any changes caused by subsequent information proving these details to be incorrect shall be regarded as a basis for amending the quoted price.

The Company is not the Engineer as defined in BS8110 Part 1 1997 clause 2.2.2.1. The Company is not responsible for designing the building or individual components of the building to comply with the Building Regulations.

No inclusion is made for designing, supplying or fixing ancillary reinforcement, fire stopping, cavity barriers, in-situ concrete, including infilling around columns, or to steelwork generally, pointing, bedding or purpose-made Precast concrete items unless specifically identified in the covering letter of this tender package.

The Prestressed flooring units will be supplied in standard 1200mm widths and reinforced units in standard 600mm wide units. Where practicable, according to our judgement, we will supply longitudinally cut 'closure units' to provide the maximum economic floor coverage.

This may leave an area for which it would not be practicable to manufacture an appropriate sized unit of hollowcore. Furthermore such a unit of hollowcore could not be lifted into place safely by using lifting chains. Such areas will be detailed and formed in in-situ concrete by others.

Our quotation is based upon slabs with a self weight which satisfy requirements given in the current edition of the Building Regulations Part E. It is the responsibility of the Building Designer to ensure that all bearing details and finishes applied to the slabs satisfy all the relevant requirements of Part E.

It is the responsibility of the Building Designer to detail and specify any ties necessary to satisfy the requirements given in the current edition of the Building Regulations Part A. Our quotation does not include for any work/details to satisfy the Disproportionate Collapse or anchorage/ties requirements unless noted otherwise. Where the Company provides a price for completing of anchorage/tie details then the design of such details will be by others.

Bearings Recommended

Nominal bearings of 100mm for masonry and 75mm steel and concrete structures are required. For conditions where this is not possible, reference should be made to Clause 5.2.3 of BS8110 and our Technical Department.

Double Bearing Units on Support Walls

Where units abut on masonry, the minimum thickness of the supporting wall should be 190mm. This figure can be reduced to 140mm, at the Building Designers discretion, providing it occurs at one end only of any unit.

In instances where this detail is proposed, the units should be tied together by opening up a minimum of two cores and concreting into position T10 tie bars. This work would be carried out by the Main Contractor/Client unless stated otherwise in the quotation.

The units will also require propping by others, until the tie detail has cured with the Project Engineer designing the props for all necessary construction loads, which must be in position prior to the fixing of the precast units.

Detailing

We have included for preparing layout drawings showing the position of each flooring unit together with details of holes and openings through units, based upon being provided at the time of order with fully detailed and dimensioned working drawings showing all holes, bearing details and the loads to be applied on to our units. No inclusion has been made for taking site dimensions. The Main Contractor/Client must ensure prior to delivery of the units that as built site dimensions are in accordance with the approved drawings and adequately marked datum lines are provided to enable the units to be installed accurately. It is essential that we are informed and provided with any changes to current details and drawings affecting this contract. Failure to do so may delay deliveries, and incur extra costs.

Camber

Units supplied will have an upward camber which will be within the limits specified in BS8110 and should not exceed L/300 for spans up to 7 metres. For spans in excess of this, reference should be made to our Technical Department.

Openings in Units

Our schedule of rates details the costs for the formation during manufacture of holes or notches. Unless otherwise agreed these will be added to our quoted costs.

Where additional or larger holes are requested by the customer, they will be provided where possible, subject to design, and will be charged for in accordance with the schedule or at rates to be agreed.



Unless their use is specifically excluded in our offer, we may form openings in the floor by using mild steel hangers which will project approx 10mm below the underside of the units. Any fire protection necessary for these hangers will be the responsibility of the customer.

In order to allow for safe handling, transport and fixing of the units, certain holes, cut-outs or open cores may not be fully formed before delivery. Unless otherwise agreed, it will be the responsibility of the customer to remove such surplus concrete and reinforcement on site.

Small holes may be formed on site by others using rotary percussion or core drilling equipment but only in positions and to the maximum diameters given on our drawings or advised by our Technical Department.

Finishes

If the specification on the contract requires our units to have exposed soffits, then a secondary finishing process may be required depending upon the finishes to be applied, the future use of the buildings and the Building Designers requirements. The Prestressed units will be manufactured with a Type A soffit to BS8110. Secondary finishing work will then be required (at no cost to Spanwright) to repair any spalling/damage caused during demoulding, transportation and fixing. Depending on the Building Designers requirements further finishing work may be required to rub down shutter joints, minor blemishes, etc. We are unable to provide units with a consistency of soffit colour or free from staining. Where soffits are to be painted we recommend a minimum of three coats of paint. Our reinforced units have a textured soffit which can be plastered direct in certain situations. Our technical department should be contacted for advice.

The top surface of the units is suitable to receive a wet finish such as a screed. Where dry finishes are specified (e.g. Computer deck raised access floor) then a levelling screed may first need to be applied at no cost to Spanwright.

End Details

Unless stated otherwise in our quotation, all units will have plain, unsealed cut ends.

Fire Resistance

Where a fire resistance period is stated in our quotation, this will be calculated in accordance with BS8110. The Hollowcore Units have a minimum fire resistance of one hour.

Protection

Protection of the product will be the responsibility of the Main Contractor/client after handing over by our fixing team or delivery of goods for supply only contracts. This includes the protection of grouting or in-situ concrete works from adverse weather conditions.

Supply Only Contracts

The Contractor/Client is to provide all necessary lifting equipment and grouting materials in accordance with recommendations which will be given when a successful order is acknowledged.

Adverse Weather Conditions

In the event of delivery vehicles not being able to be unloaded due to adverse weather conditions (e.g. winded-off) then the cost of waiting time, returned loads will be charged to the Client on all supply only contracts and supply and fix contracts where the client is providing the offloading plant.

Site Conditions

The client should ensure that the site access and roadways are designed to safely carry our delivery vehicles and cranes (normally 12m articulated lorries). Site walkways and access around the working area should be of a suitable surface to allow safe access and egress of operatives and plant. Where the site is approached through narrow or congested roads, the client is responsible for liaising with individuals or the Local Authority to ensure suitable access for delivery vehicles. Crane sizes have been estimated from the information supplied and will be confirmed before commencement of works. If crane sizes increase above the stated size additional costs will be passed on.

Skip

We will require to be provided with a skip free of charge for any waste material adjacent to the work area.

Grouting

Where we have included for grouting the 'V'-shaped joints between our units, this is only to ensure the sharing of vertical loads between floor slabs. We will grout using a brush grouting process and this process will not guarantee air tightness through the grout joint.

Construction (Design Management) Regulations (CDM)

In accordance with the above, we require a copy of the Health and Safety Plan for this project highlighting where it particularly affects our products or services. Also we require confirmation of the individual who is the CDM Co-ordinator for the project.

VAT

This quotation excludes Value Added Taxes.

Cancellation

In the event of you cancelling your order after a period of 2 weeks, we reserve the right to charge our basic abortive administration costs which are up to 10% of the sub-contract value (exclusive of V.A.T). Any further costs incurred with drawing, manufacture, or disposal of manufactured units may also be passed on.