



BISON
STANDARD PROJECT NOTES
SUPPLY AND FIX CONTRACTS

1. TECHNICAL

1.1 Resources

Where craneage is supplied by Bison, Bison's Appointed Person will be responsible for producing the Site Installation Plan incorporating the Crane Lift Plan.

Where craneage is supplied by Bison's Customer, it is Bison's Customers Appointed Persons sole responsibility to ensure the crane has sufficient capacity to lift Bison's units detailed on Bison's drawings prior to commencement of installation and to produce the Crane Lift Plan. A copy of the Crane Lift Plan must be available to Bison. Bison will produce the installation Method Statement.

Installation of Bison precast units will be undertaken out by qualified operatives under the management of Bison's Contract's Department. Bison's site works will be supervised by a working foreman trained to a minimum of SSSTS level and having relevant CPCS Crane Supervisor training

1.2 Finishes

Soffit surface finish is to Type 'A' as described in clause 6.2.7.3 of BS 8110:1997 and further referred to in the Bison Precast Flooring or Structural Precast Concrete Specifications.

The following should be noted in respect of projects requiring an Exposed Soffit Finish;

Type 'A' finish is to some extent open to interpretation. On projects requiring an Exposed Soffit Finish we propose that prior to entering into any contract the potential customer inspects sample unit(s) held at our production facility. Such sample unit(s) will constitute the agreed finish benchmark.

Designers should appreciate that it is virtually impossible to achieve dense, flat, smooth, even coloured, blemish free concrete surfaces directly from formwork. To achieve such a standard of finish, some degree of making good is inevitable.

Where strict colour consistency is required Bison recommends the application (by others) of a textured paint finish where this is applied in accordance with the manufacturers' instructions. Unless otherwise stated Bison scope excludes any requirement to improve soffit finish beyond the as struck standard.

Sides and top surfaces of precast flooring units are "as extruded" as described in table 5.5 of BS8110:1997. Final top surfaces to in-situ joints / strips will be subject differential settlement arising from shrinkage and movement of the floor area during construction and will also be impacted by differential camber of adjacent precast units.

In order to achieve a reasonably level top surface, it may be necessary to provide local levelling to accommodate manufacturing and constructional tolerances. Such levelling is to be undertaken by the Customer at the Customers cost

1.3 Soffit Fixing

The use of ceiling clips or hangers is no longer recommended and these are excluded from Bison's product range. Hilti anchors or similar provide an alternative method of soffit fixing.

1.4 Drainage Points

Water may accumulate within the cores of hollowcore units due to exposure during construction. Unless specifically instructed by the Customer and as part of Bison's production process, Bison will provide drainage points to units with factory formed reduced / troughed / solid / capped ends only. Any requirement for drainage points in other locations is excluded by Bison and is the responsibility of the Customer.

Where drainage points are provided in Bison units, the Customer is responsible for opening them out, keeping them clear during construction and for subsequent infilling / making good as required. In the event that the Customer fails to undertake the foregoing, Bison shall not be liable for any direct or consequential loss and / or expense arising from such failure.

1.5 Lifting Hooks

To facilitate the safe and efficient handling of Bison 75mm solid planks and 300mm to 450mm deep hollowcore slabs they will be supplied with cast-in lifting pins/hooks as standard.

For Bison 100mm solid planks and 150mm to 260mm deep hollow core slabs cast-in lifting pins/hooks are available to Customer order at an extra over rate. The provision of cast-in lifting pins/hooks in 100mm solid planks and 150mm to 260mm deep hollow core slabs is excluded from Bison's scope of works unless stated in Bison's quotation.

When quoted for, lifting pins are used in 65mm, 75mm and 100mm solid planks and 150mm sound weight hollowcore slabs, all other depths of hollow core slabs receive lifting hooks.

Where Bison units are provided with lifting hooks any resultant infilling that may be required to the slab recess around the lifting hooks or scabbling raised areas / displaced concrete is to be carried out by others at no cost to Bison.

1.6 Structural Topping

For technical reasons Bison recommends that grouting of all joints between Bison units is carried out prior to the placing of any structural topping.

2. DELIVERY

2.1 Transport

Precast units will be delivered on articulated or rigid vehicles as detailed within Bison's quotation. Where access restrictions on site, or at the customer's request, or for any other restriction outside the control of Bison, dictate a reduction in the size of vehicle or a change in the vehicle specification, such changes will be subject to availability and at an additional cost. Availability and cost implications will be advised as soon as Bison receives confirmed access details.

2.2 Delivery Period

The delivery period will be discussed and agreed with the Customer. The delivery period will be subject to receipt of official order and adequate working drawings to enable (if appropriate) the completion of the design.

In agreeing programmes of work, Bison accepts no liability for delays arising from equipment and / or vehicle breakdown, adverse weather, traffic conditions or other matters beyond Bison's reasonable control.



To assist with the programming of manufacture and safe/efficient loading of delivery vehicles Bison requires the site specific sequence of erection a minimum of 3 weeks prior to Bison's anticipated site start date. Arrangements in respect of short lead times are to be agreed at time of order.

2.3 Cancelled / Postponed Deliveries / Varied Delivery Requirements

All amounts are net and exclude vat.

In event that deliveries are cancelled / postponed after 2pm and before 5pm the working day prior to an agreed delivery date, the customer will be liable for a late cancellation charge of 50% of the load charge plus 25%.

In event that deliveries are cancelled / postponed after 5pm the working day prior to an agreed delivery date, the customer will be liable for a late cancellation charge of 100% of the load charge plus 25%.

In the event that deliveries are cancelled / postponed / unable to be offloaded on the day of an agreed delivery date for reasons outside of Bison's reasonable control, the customer will be liable for a late cancellation charge comprising abortive haulage, labour, craneage, passive fall protection, double handling, storage etc plus 25% excl vat. Such charge is to apply irrespective of whether a load has departed Bison's production facility.

Delivery requests rec'd > 2pm working day prior	Extra over 10% of load cost plus 25%
Delivery requests rec'd > 5pm working day prior	Extra over 25% of load cost plus 25%
Loads on Saturdays:	Extra Over £150 per load
Loads on Sundays:	Extra Over £200 per load
Loads on Bank Holidays:	Extra Over £200 per load
Waiting Time	£60 per hour (chargeable after 2 hours from booked time)
Abnormal Loads – Additional Person in Cab	Extra Over £200 per load
Abnormal Loads – Police Escort etc	Price on Application
Out of Hours Movements (before 7am, after 6pm)	Extra Over £75 per load
Trailer Hire (Standard)	£150 per trailer per week
Trailer Hire (Step Frame)	£600 per trailer per week
Vehicles Held Overnight	Abortive Haulage Cost + £75 all plus 25%

Supplemental Additional Charges Specific to Loads Ex Bison's Uddingston Facility into sites in England

In event that deliveries are cancelled / postponed within 2 working days prior to an agreed delivery date, the customer will be liable for a late cancellation charge of £500.

Waiting Time > 24 hours (weekdays)	£600 per day
Waiting Time > 24 hours (weekends)	£750 per day
Friday Deliveries not tipped by 2pm	Extra Over 70% of load charge + 25%
Weekend / Bank Holiday Deliveries	Extra Over 70% of load charge + £100 all + 25%

3. HEALTH & SAFETY

3.1 Passive Fall Protection

When working at any height, where there is a risk of an injury due to a fall, e.g. upper floors and/or



floors over basements and delivery vehicles, passive fall protection must be provided during installation of all precast concrete floors and stairs.

Passive Fall Protection is to be in accordance with the Health and Safety at Work etc Act 1974, the Management Health and Safety at Work Regulations 1999, and the Working at Height Regulations 2005.

Where Bison has included for the supply, installation and subsequent removal of passive fall protection it is for the sole use of Bison personnel during the installation of the Bison's products. The passive fall protection will be provided using either air bags or safety nets, at the sole discretion of Bison. Air bags will generally be used where bearings are masonry, safety netting will generally be used in the case of steelwork bearings. In some instances the use of work restraint / fall arrest equipment may be necessary.

Where passive fall protection is excluded from Bison's quotation the Customer must provide and install this for the use of Bison personnel. The customer is also responsible for its subsequent removal. Such passive fall protection is to be provided at no cost to Bison.

3.2 **Trailer Fall Protection**

Where Bison has included trailer fall protection (as set out in Bison's quotation), for its installation, this will generally be achieved using air bags. Bison requires an 8.0m wide level, clear area free from traffic, materials and debris. The length of this clear area is to suit Bison's delivery vehicle type.

3.3 **Pre-Tender Health and Safety Plan**

Cost or programme implications resulting from compliance with the Pre-Tender Health and Safety Plan for this project may not have been allowed for within Bison's quotation. Any such implications should be discussed and agreed at a pre-order meeting. If no meeting is held Bison reserves the right to recover any time or cost implications arising from such compliance post contract.

3.4 **Construction Design and Management Regulations 2007**

To satisfy the requirements of the Construction Design and Management Regulations 2007, Bison will provide all information for the Health and Safety file in an electronic format only. 3 copies of a CD Rom will be supplied as standard

3.5 **Aerial Obstructions**

At its cost the Customer shall be responsible for the re-routing, removal and/or making safe, prior to the arrival of Bison on site, of any aerial obstructions which are likely to foul or hinder a crane boom or suspended load, (including parts of the structure e.g. purlins, cross-bracing or the like) and also for their subsequent replacement. Designers must take into account the stability of the structure during the installation of precast units. If the removal of any structural member is necessary to facilitate the installation, structural stability must be maintained and the building designer must be satisfied that such structural stability is not prejudiced.

At its cost the Customer shall also be responsible for the protection of power lines or other services and where applicable, the issue of notifications to third parties.

The Customer shall obtain appropriate authority where permission is required to operate within the air space of third parties.

4. **ADDITIONAL INFORMATION**



4.1 Debris Removal

Unless stated otherwise in Bison's quotation, Bison's works include for the removal of Bison debris and leftover materials, to a central location or into a skip(s) (provided by others). Bison is not responsible for the provision of a skip(s) or for removing debris from site, tipping skip(s) or any Landfill taxes etc.

4.2 Crane Set-up and Ground Conditions

When erection operations are to be carried out from the public highway, all road signage, traffic control and management, together with all necessary permissions shall be the responsibility and at the cost, of others.

In accordance with BS 7121 Safe Use of Cranes, it is the Customers responsibility to ensure that the loading capacity of the ground in and around crane set up areas is sufficient to withstand the outrigger loadings imposed on it. If Bison is providing the crane, the Customer is responsible for providing sufficient and accurate information to Bison's Appointed Person in respect of ground bearing capacities. The Customer is also responsible for providing all necessary information relating to ground conditions, stability, location of any underground services / voids / vaults / culverts or the like etc in and around crane set up areas.

The Customer is responsible for maintaining ground conditions in and around crane set up areas, access roads etc such that they do not deteriorate due to adverse weather, construction activity etc.

When crane set-up positions require the use of additional outrigger support equipment over and above the standard equipment carried with the crane this will be subject to an additional charge. Such additional equipment will normally be required for the protection of existing roads, footpaths, car parks, drives or the like or where ground conditions dictate (poor ground, slopes etc).

Additional charges for such additional equipment are as follows;

Additional Crane Mats (3.02m2 per outrigger -includes delivery and collection)

1 day	£435
2 day	£775
1 week	£900
2 week	£1,000

Reduced rates may apply in instances of longer term hire

Levelling Sleepers

per day	£625	(includes delivery and collection)
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Specific regulations / requirements govern the use and operation of cranes in the vicinity of aerodromes (6 km from the perimeter), railways, overhead power lines or the like. Unless specifically set out in Bison's quotation, the Customer is responsible for compliance with such regulations / requirements and any additional cost to meet such specific regulations / requirements is excluded. In the event that Bison incurs cost in respect of compliance with such regulations / requirements, this shall be chargeable to the Customer.

In instances where the Customer is providing a crane(s), the Customer is responsible for ensuring that the lifting operation carried out is properly planned by a competent person in accordance with BS



7121 Safe Use of Cranes. The person planning the lifting operation must have sufficient knowledge and experience of such operations and the Customer is responsible for ensuring that the crane is capable of the duties required for lifting and installing Bison's units.

4.3 Adverse Weather

Bison's ability to progress works on site is dependant on the prevailing weather conditions.

Bison reserves the right to suspend / postpone site operations if weather / ground conditions (including wind speeds (including gusts), rain, snow, ice, mist, fog, temperatures, standing water etc are forecasted by the Meteorological Office to be such that would jeopardize safety / progress.

In such circumstances, Bison will confirm its intentions to your site staff. Bison shall not be liable for any delay, direct or consequential loss and / or expense, liquidated and ascertained damages etc arising from suspending / postponing progress due to such adverse weather.

Further details in respect of managing adverse wind speeds are set out below

4.4 Winding off Procedure

Bison reserves the right to suspend / postpone site operations if wind speeds (including gusts) are forecasted by the Meteorological Office to be such that would jeopardize safety / progress.

In such circumstances, Bison will confirm its intentions to your site staff. Bison shall not be liable for any delay, direct or consequential loss and / or expense liquidated and ascertained damages etc arising from suspending / postponing progress due to such adverse weather.

In the event that Bison confirms its intention to suspend / postpone site operations due to forecasted wind speeds and the Customer wishes to take the risk, Bison will attend site with a view to continuing site operations only following receipt of a written instruction from the Customer confirming the Customer is prepared to underwrite Bison's preliminaries, labour, crane, passive fall protection and delivery/haulage costs.

Such an instruction must be received by Bison no later than 2pm on the prior working day.

The table below indicates the maximum safe working wind speeds of our respective cranes.

Crane Type	Max Wind Speed	Boom Length
Mobile Tower	14m/s 31mph 50.40kmph	All boom lengths
Mobile Tower – To be derigged	20m/s 45mph 73.16kmph	N/A
Liebherr	11m/s 25mph 39.60kmph	Long
Tadano Faun	14m/s 31mph 50.40kmph	All boom lengths
Terex Demag	9.8m/s 21mph 36.00kmph	All boom lengths

4.5 Lightweight Blockwork Bearings

In instances where bearings are lightweight aerated blockwork (including thin joint blockwork) or the like, Bison do not recommend that site erection is undertaken without using cast in lifting hooks / pins. Cast in lifting hooks / pins are available at an additional cost.



In the event that the Customer does not order the use of cast in lifting hooks / pins, Bison will not be liable for any damage to the bearings during the installation process.

4.6 **Dual Bearings / Temporary Works**

It is Bison's Customers responsibility to ensure that all bearings have been designed appropriately to take into account of temporary loads during erection. Particular clarification for dual bearings under 140mm may be required. Where propping is required, Bison's Customer is responsible and liable for the temporary works design, provision of necessary labour, plant, equipment and materials in respect of such propping. Such temporary works design is to be undertaken by a competent technical authority and is to be made available to Bison upon Bison's request. Bison's Customer is responsible for the security and non disturbance of all propping / temporary works.

5. **ACCOUNTS AND PAYMENT**

5.1 **Projects Exceeding Their Fixed Price Period**

Prices contained within Bison's quotation are valid for the period stated. Unless otherwise agreed, Bison reserves the right to apply an immediate increase to all materials and or services supplied beyond this period. In the absence of any other agreement, all rates will be subject to an uplift of RPI + 8%, where RPI is taken as the rate published by the government as at the 1st of January immediately preceding the date of expiry.

5.2 **Accounts**

Approved accounts will be subject to a trade limit, either agreed upon the placing of an Order or as previously agreed. Non-approved accounts will be strictly on a pro forma basis

5.3 **Payment**

Should payment be delayed beyond the agreed terms, Bison reserves the right to suspend deliveries to the Customer and to review trading terms forthwith following the giving of notice, in writing, to this effect. If any part of Bison's applications for payment is contested, then such sum under query shall be notified to Bison for resolution within 7 days of the application / invoice date, the balance not the subject of query shall be due and paid in accordance with agreed payment terms.

The obligation to pay Bison in respect of works carried out / product delivered shall not be subject to any "pay when paid" or "pay when certified" provisions. Completion of contract documents / warranties / CDM documentation etc shall not be a condition precedent to payment.

All goods shall remain the property of Bison until full payment (cleared funds) for them has been received

5.4 **Retention**

Payment shall be made in full. No monies shall be deducted by way of retention.

At Bison's discretion, a Retention Bond or Indemnity may be provided to cover a maximum of 3% of the sub-contract sum. Such Bond or Indemnity will be reduced to 1.5% 9 months after the anticipated date of practical completion of the sub-contract works. The Bond or Indemnity will become null and void (whether or not returned to the surety or Bison) at a date of 9 months thereafter.



A Bond may only be offered on supply and fix/lay contracts having a value exceeding £100,000.00.

5.5 **Value Added Tax (VAT)**

Bison's quotation is exclusive of VAT. To the extent that the supply of goods or services arising from Bison's quotation is subject to VAT, the amount of VAT shall be added to amounts due under any ensuing contract

5.6 **Design**

Bison retains the right at the design stage, to exclude from the contract at no cost or expense to Bison, any areas and/or products that Bison deems unsuitable and/or impractical to be constructed using Bison precast concrete products.

5.7 **Rights of Third Parties**

Nothing in any ensuing contract shall confer or purport to confer on any third party any benefit or any right to enforce any terms or conditions of same

5.8 **Aggregates Levy**

Bison's quotation includes for Aggregates Levy at the current rate of £2.00/tonne. Notwithstanding the terms of any fixed period offered/agreed Bison reserves the right to recover any increase to this levy or any other similar tax that may be introduced at a future date from the Customer.

5.9 **Liquidated and Ascertained Damages (LAD's)**

Where LAD's are applicable, Bison's maximum liability under any ensuing contract will be 10% of the sub-contract value

