

SOLO TIMBER FRAME MATERIAL AND COMPONENT SPECIFICATION& SCOPE OF WORKS

(To be read in conjunction with our Terms & Conditions)

Ref: Branch/101120 Project Description: New Pavilion at Bishop's Itchington Sports Pavilion, Chapel Street, Bishop's Itchington

Solo Timber Frame reserve the right to amend this schedule, and therefore our estimate, against any changes in the design requested by you, your Local Planning Authority, the Structural Engineer or Building Control Officer. We reserve the right to substitute any of the following products with others of an equal or superior specification.

This estimate is based on the specification below which is our interpretation of your drawings and should be read in conjunction with our Budget Estimate document. Please ensure this meets your requirements as some items may differ to those specified on your drawings.

Please note, certain elements of this estimate may not apply to your project, (for example, a bungalow will not require an intermediate floor and therefore this element would not be included in the estimate). For further clarification please contact us.

SOLEPLATES AND DAMP PROOF COURSE	SUPPLY	ERECT
Lengths of 140mm x 38mm and 89mm x 38mm treated primary soleplate cut to size and fixed directly to your footings using method to be decided by our engineer. Damp proof course to underside of all primary soleplates.	YES	YES
EXTERNAL PANELS & GABLE WALL PANELS	SUPPLY	ERECT

Prefabricated and ready to erect

All our frame types are manufactured from 140 x 38mm treated softwood with studs generally at 600mm centres and sheathed in 9mm Orientated Strand Board (OSB) with Protect TF200 Thermo insulating breather foil membrane on external skin and black nylon tape to mark the stud positions. Engineer specified lintels factory fitted to openings. Panel height has been quoted as approx. 2400mm.

STANDARD WALL - U value 0.20 Factory fitted 100mm rigid insulation + **Supply only** of site fitted 50mm flexible insulation

UPGRADE WALL ONE - U value 0.15 Factory fitted 100mm rigid insulation + **Supply only** of site fitted 50mm rigid insulation

UPGRADE WALL TWO - U value 0.13 Factory fitted 100mm rigid insulation + **Supply only** of site fitted 50mm flexible insulation + site fitted 50mm rigid insulation

NOTE: The site fitted insulation must be installed by your own tradesmen once 1st fix has been completed



YES

YES

Optional Upgrade

Optional Upgrade

INTERNAL AND PARTY WALL PANELS Prefabricated and ready to erect	SUPPLY	ERECT
Manufactured from 89mm x 38mm treated softwood with studs generally at 600mm centres with half height noggins fixed in load bearing panels if required structurally. Half height noggins will be excluded from non-load bearing panels. Panels are sheathed with OSB where required for racking purposes	YES	YES
Engineer specified timber lintels factory fitted to door openings if required for load bearing purposes		
Party walls if required will be made up of two internal partition walls		

INTERMEDIATE FLOORS – If applicable	SUPPLY	ERECT
Where possible, we will design a prefabricated cassette floor using open web joists with a factory fitted 15mm OSB sub-deck and overlaid with an 18mm flooring grade chipboard once the roof is covered	YES	YES
Robust Detail where required: Either Robust Detail E-FT-3 or E-FT-6 to comply with Part E acoustic floor details between apartments	NO (Priced on	NO request)
Note 1: If prefabricated cassettes are not feasible, then a 22mm moisture resistant chipboard will be used where no other floor systems are to be installed Note 2: Where underfloor Heating and/or robust detail floor systems are required, an 18mm OSB subdeck will be specified		

ROOF STRUCTURE Where possible, pre-fabricated treated and ready to erect	SUPPLY	ERECT
Prefabricated treated roof trusses to design requirements. Structural beams in steel or timber glulam as designed by our Structural Engineer.	YES YES	YES YES
Felted roof with Roofshield roofing felt and fly battens to create a watertight structure.	No cost option	
NOTE 1: Your Timber Frame can never be 100% watertight until the roof tiles have been laid. We therefore strongly advise that the first trade you employ once we finish is a roofer NOTE 2: Any roof areas that are to be supported by masonry external skins will be supplied but not be installed by Solo NOTE 3: Flat roof areas will not be felted NOTE 4: Our felted roofs are sacrificial and only suitable to protect the structure where there's a delay between us finishing, and you roofer commencing work		

STEEL WORK (IF APPLICABLE)	SUPPLY	ERECT
Structural steel as specified by our engineer (if required)	YES	YES
Masonry support in areas where brickwork or blockwork needs to be carried over the Timber Frame where traditional lintels are not possible. (Not including areas above windows, behind porch/lean-to roofs and doors)	YES	YES
NOTE 1: Steel beams can only be confirmed post contract. A PC sum has been included within our Budget Estimate, but can be subject to change once the full engineering scheme has been completed NOTE 2: Where a rendered external finish has been specified, We will assume that a render carrier system is being used, as opposed to a steel masonry support, unless it is clearly stated on the drawings		

METAL WORK	SUPPLY	ERECT
Galvanized Timber Frame-to-brick wall ties supplied loose for site fixing by your bricklayer	YES	NO
Truss clips, joist hangers and girder truss shoes	YES	YES
Galvanized nail gun cartridges in 90mm, 65mm and 50mm	YES	YES

WINDOWS AND EXTERNAL DOORS – <u>IF INCLUDED - PLEASE REFER TO OUR BUDGET</u> ESTIMATE DOCUMENT	SUPPLY FIT
ROOF LIGHTS/ VELUX WINDOWS NOT INCLUDED	
PVCu white double-glazed windows with white handles and one composite front door. Any other doors allowed for will be traditional white half glazed PVC. Any bi-fold doors will be white aluminium.	STANDARD (<u>Supplied & fitted if</u> included)
Timber effect 'mechanical joint' double glazed windows and doors offering the look of a timber window with the performance and longevity of PVC, in white with white handles. (Not to be confused with wood grain PVC windows)	OPTIONAL UPGRADE
(Any RAL colour and many wood grains available)	
Aluminium double glazed windows and doors factory finished in white with white handles. (Any RAL colour available)	OPTIONAL UPGRADE
NOTE 1: We offer a wide range of window & door styles. Please advise us if you prefer a type different to those allowed for NOTE 2: At least one external door must be sized and designed to comply with Part M wheelchair access	
regulations. We will assume this to be the main access door NOTE 3: Over the course of the whole project windows can occasionally be marked or chipped. If requested, A touch up paint can usually be supplied and the windows should be touched up on completion by the customer NOTE 4: Windows and doors have a tendency to become stiff or stuck during the build. This is entirely normal and adjustment is to be undertaken by the customer at the end of the project	
NOTE 5: The final specification will need to be approved by the customer prior to the final order being placed. Solo cannot be responsible for any design/style discrepancies without this approval. The customer should ensure they fully understand the final specification and will be responsible for any amendments after the final specification has been approved.	

THERMAL CAVITY BARRIER (FIRE STOP)	SUPPLY	FIT
Thermal cavity barrier (fire stop) where required	YES	NO
Timber pinch batten to top, sides and bottoms of all window openings and top and sides of all door openings (excluding dormer windows)	YES	YES
NOTE: External Thermal Cavity Barrier to be installed by the Customer after Timber Frame construction to all floor zones, under soffits/roof structure, and all vertical junctions		

Vapour control barrier

NOTE 1: Required to all external walls and ceilings with a cold or warm roof above NOTE 2: Supplied once frame sign off is complete and installed by the customer

FRAME DESIGN - INCLUDED

All necessary working drawings for the structural frame as required by Building Control and all drawings required for the erection of the Timber Frame structure are supplied at the culmination of the project and upon completion of this contract

DELIVERY & CRANEAGE - INCLUDED

Timber Frame package delivered to site. This is assuming a 40ft articulated trailer has suitable and safe access. Other types of vehicle may incur extra delivery charges. Our Contracts Manager will visit your site and decide what is suitable. See the section titled **DELIVERY AND CRANEAGE** for more details

Additional services available at extra cost

PREPARATION OF BUILDING CONTROL DRAWINGS

Conversion of your AutoCAD planning drawings to Building Control drawings suitable for submission to your chosen Building Control Authority and Self Build warranty provider

NOTE: Customer would need to provide Solo with accurate DWG files and surveys of existing structures where necessary

CONSTRUCTION OF YOUR FOUNDATIONS TO OUR SPECIFICATIONS Please ask for further details

SUPPLY

YES

FIT

NO

SECOND FIX JOINERY PACKAGE

Supply of Plasterboard, Sound Proofing Materials, Roof Insulation, Internal doors, Stairs, Skirting Board, Door Frames and Architrave.

Should you proceed to contract on the basis of the Budget Estimate provided, supply of components would be as per the specification above. If you require any amendments, please contact us for a revised Budget Estimate.

GROUNDWORKS AND SITE SAFETY

It is the customer's responsibility to ensure that the foundations are prepared in accordance with the setting out plan and line & point loads drawing that will be provided by Solo Timber Frame, and level to tolerances of +/-5mm. The foundation design may vary from your own Architects proposed design to suit the timber frame engineering.

Solo Timber Frame or its Frame Erectors cannot be responsible for any packing of the Timber Frame due to poorly constructed foundations in excess of the allowance quoted on the drawings. Any packing works will be completed by the Customer after the Timber Frame construction.

Any discrepancies may result in additional time and cost.

Prior to delivery of your frame, the substructure will be inspected for accuracy by Solo Timber Frame. If any discrepancies are found during this inspection Solo will provide accurate information allowing the customer to remedy the situation. Delays occurring because of this may result in a revised delivery date and additional costs.

Once remedial works have been completed a re-inspection visit will be booked and a fee of £250.00 levied. Alternatively, the Customer can give Solo Timber Frame a written guarantee that they are satisfied with the work. If upon delivery of the Timber Frame the foundations are still not to the required standard, then the cost for abortive delivery, labour and any other expenses will be charged to the Customer. If your foundations are not complete at the time of the inspection and Solo are unable to fully inspect then further visits will be chargeable to the customer for a fee of £250.00.

A substructure to underside of soleplate will be required for all ground floor external and internal Timber panels whether they are loadbearing or non-loadbearing. Non-loadbearing panels can be constructed from the structural screed once the Timber Frame has been completed. The installation of these remaining panels will be the responsibility of the customer to complete, or additional costs will be incurred for a return visit.

Any recognized foundation can be specified but the tolerances required are +/- 5mm for level and square. The best and easiest way to achieve this is to ensure that the company building your foundations employ the use of a laser level.

It is the Customers responsibility to supply all fall arrest systems required during the construction of the Timber Frame. This can be discussed with our Contracts Manager prior to delivery.

Works can only begin when:

- 1. The substructure has been certified as acceptable and within tolerances.
- 2. All Health & Safety, Welfare and Temporary facilities are in place (crash bags, fall restraint systems etc.)
- 3. Site toilet and electric supply are in place.
- 4. The scaffolding has been erected by your scaffolders in accordance with the supplied Solo Timber Frame plan. Note that it may be necessary for the scaffold to be adjusted during the erection works; the customer will meet the cost for this.

CDM 2015 NOTES

Following the introduction of the CDM 2015 regulations the legal responsibility managing health & safety during design and construction lies with the customer until such time they employ the services of a Principle Designer and/or Principle Contractor and delegate the responsibility to them in writing.

Solo Timber Frame are not able to enter into either of these roles as our professional indemnity insurance does not cover us. Solo acting in the role of a Designer" & Contractor will be responsible for the health & safety during the design & installation of the Timber Frame Package that forms the basis of this quotation and will work closely with the Principle Designer and Principle Contractor.

The Principle Designer and/or Principle Contractor on the project is responsible for the submission of all relevant drawings, structural calculations and associated documents to meet the requirements of the Building Regulations. Solo Timber Frame drawings/structural calculations where provided/required will form part of this application.

DELIVERY AND CRANEAGE

On the day of delivery, offloading will be carried out with the aid of a mobile crane directly from a 40' articulated trailer. Hard standing for the crane must be suitable and provided by the Customer. If the ground stability is low, compacted/rolled hardcore covering a 7.5m x 7.5m area will be required. Any damage to paved areas, footpaths, landscaped areas, driveway or crossovers caused by the crane or delivery vehicles will be the Customers responsibility to repair. Crane mats may be required to protect any

unstable ground and would need to be organized by the Customer. It is the responsibility of the customer to arrange any crane permits/traffic management required if use of the public highway is necessary. Please note that permits for cranes and/or traffic management plans can take up to 12 weeks to obtain depending on individual councils.

Solo Timber Frame have not visited your site to ascertain the access prior to submission of this quotation and therefore assume suitable access will be provided for all cranes/lorries required.

If site access is difficult and the crane is unable to reach the delivery vehicle, it is the responsibility of the Customer to hire the necessary additional plant and/or employ labour to offload. We will advise what is required. Any failed delivery/crane attempts will result in additional fees of £700 per lorry and/or crane which will be met by the Customer.

The time allowance for site un-loading is two hours per vehicle, any additional time taken will be subject to further costs of £60 per hour or part thereof.

Large feature windows will sometimes require an additional crane to enable safe installation. If needed, an extra charge will be levied for this. Solo will advise what is required.

If you have to delay the delivery of your frame, we cannot guarantee to begin work on your preferred revised start date, though we will, of course, try our best to do so.

ERECTION OF YOUR FRAME

In order for our primary soleplate to be fixed, we require concrete blocks with a crushing strength of 7N/mm2. If required, soleplates will be packed level with plywood packers at no more than 1200mm centres. All additional packing is to be undertaken by the customer and remaining gaps should be in-filled with expanding foam/additional ply packers under all stud positions. This process will be explained in more detail during the frame sign off meeting.

The external and internal panels will be erected plumb with +/- 10mm tolerance over any storey height but not more than 10mm cumulative over the building height. Erected panels will be temporarily braced and all panels fully nailed during progression. All panels will have head binders fitted with laps from one panel to the next. All structural noggins will be fitted (excluding any plasterboard noggins).

Items that need to be erected after completion of brickwork or other cladding will not be erected by Solo Timber Frame e.g. porch/bay roofs, verandas, lean-to roofs, conservatories, are to be installed by the customer. Fixing of additional service/plasterboard noggins is to be undertaken by the customer.

Structural steelwork that is not related to the Timber Frame structure itself and is required within existing structures is the responsibility of the customer. This includes engineering of any alterations to existing structures.

Steel columns that are supported by the foundations will be packed using steel shims. It is the responsibility of the customer to ensure that structural grout is used under the steels to fully bed them to the foundations. Pad stones will be required by the customer in these locations so that an adequate fixing can be obtained.

No allowance has been made for any intermediate underfloor heating system or similar which may add additional load to the intermediate floor joists. Floor details will be reviewed by our engineer upon receipt of final information. Any costs associated with an increase in the floor specification in order to accommodate any flooring systems will be met by the customer.

As a no cost option, pitched roofs will be covered. This is a sacrificial covering in order to protect the frame between us completing the frame and your own roofer commencing work. If you have your roofer lined up to start very soon after we have finished, you may prefer us not to fit this protective covering as it creates additional labour to remove, unnecessary waste.

Flat roofs will be decked with 18mm ply with firrings under to a fall of 1:70 unless specified otherwise. Solo Timber Frame will assume the falls to one direction unless a detailed drawing showing any other fall directions will be required. Flat roof areas will not be felted.

Vaulted roof areas will be braced via 25x100 lengths under the roof rafters to be covered by the roof insulation or by batten to be installed by the customer.

Any decks on pitched roofs needed for structural sheathing, standing Seam, zinc roofs, or similar are not included.

We do our best to quote realistic time scales for the erection of the frame, however, it is very difficult to be accurate until the job has commenced. In most cases the frame will be weather tight within approximately 10 to 15 working days, depending on access, weather and the complexity of the structure. Therefore, site start and finish dates are given for guidance purposes only. Solo Timber Frame will not be responsible for any delays to following trades if construction on site takes longer than originally approximated. Solo will not be responsible for any costs related to additional scaffold hire if construction takes longer than originally approximated.

WINDOWS

If Solo Timber Frame supply windows and external doors, they will be fitted as part of the frame erection process. We recommend that some of the doors be stored safely until the majority of the internal works are complete to avoid damage and be fitted by the customer as late as possible.

If the customer chooses to supply and fit their own windows, or requests that those supplied by Solo are not fitted by our window installation team, then Solo cannot be held responsible for any problems that may occur during installation.

In order for Solo Timber Frame to fit the external doors, depending on the design of those doors, your external masonry skin needs to be constructed to DPC. This will need to be completed before the door/window delivery is due on site allowing enough time for the masonry to cure. To assist your ground worker or bricklayer, Solo will provide drawings showing the varying details and sections depending on the door threshold design as these will vary between the different door types.

If the doors or windows cannot be fitted due to the lack of masonry up to DPC, or if lead trays/perimeter DPC is required to be installed prior to fitting, then Solo will charge for a return visit when installation is possible. Solo will install the doors and windows during one visit. Subsequent visits will be chargeable to the customer. If Solo is instructed to not install any door/window units by the customer any return visits to complete the installation will be chargeable to the customer.

Scaffold adjustments may be required in order to fully install some doors and windows. This is particularly the case with large units, such as bi-fold, sliding and French doors. The cost of this is to be met by the customer.

Please note that window and door lead times are between 4 and 12 weeks, depending on type. Therefore, it is important that you finalize and approve your final specification as early as possible to avoid delays in delivery. Orders cannot progress to manufacture without the customers final approval.

LEAD TIMES

The price is valid for 90 days from the date of our Final Quotation on all goods delivered within 120 days of this date. If this is acceptable, please contact us to discuss full order details. Delivery is subject to the extent and complexity of technical design and drawing work and the availability of bought-in parts, but should be in the region of ten to fourteen weeks from receipt of signed contract, deposit payment and final drawings being provided in .DWG format.

HANDOVER / COMPLETION

On completion of the frame erection, the customer must inspect the work with our Contracts Manager and sign a completion note. This is an important part of the process as it signifies the finish of the structural Timber Frame erection process and the commencement of the post erection works by the customer. Please note, if further works are required on the structural frame, these will be arranged. Solo Timber Frame cannot be held responsible for the completion of any works by others, or their cost, unless agreed in writing between both parties. If follow on trades undertake work that must be undone in order for the frame to be completed the customer will be liable for this cost.

Any work by follow on trades or individuals on the structural frame will be deemed to signify acceptance of our works as satisfactory. If works have been undertaken by others before the Timber Frame has been signed as completed by the customer this will also signify completion and acceptance of the Timber Frame.

Handover of engineering calculations and completion certificates cannot take place until all outstanding invoices have been settled.

WARRANTY

When building your own home you must provide your own warranty.

Any mortgage lender will insist upon there being a warranty in place before making any advances. Additionally, if the property is sold within 10 years of completion, the buyer's solicitor will need to see proof that a warranty is in place. A warranty cannot be put in place once the building is complete or any construction works have commenced on site, as inspections must be made during the construction phase.

Our own pledge to you guarantees that we will build to the standards laid down by the building control officer and your chosen warranty provider.

SAP CALCULATIONS

The majority of properties will require a SAPS calculation to be undertaken. Solo Timber Frame recommend this is carried out at the early stages of design to ensure that the overall property is conforming to current regulations before works begin. Solo can organise a SAP calculation if required, for an additional fee.

FIRE MITIGATION

Please note that no allowance has currently been made within this quote for incorporating any measures relative to the issue of fire spread inside or outside the site boundary during construction. We have not visited site to ascertain the fire mitigation risks during the preparation of this Budget Estimate and cannot comment on the neighbouring conditions relating to fire mitigation. Our costs may increase if fire retardant materials need to be incorporated into our Timber Frame package. Our Contracts Manager will be happy to offer advice. Please contact the office for further details.

To help you achieve compliance with CDM Regulations and HSG 168 (a HSE publication entitled Fire Safety in Construction), we refer you to "**The 16 Steps to Fire Safety**" and "**The Design Guide to separation distances**", by the STA, (available from the STA website). These provide guidance for the project team and the Principal Designer to

carry out their duties under this legislation.

ADDITIONAL NOTES

Site insurance against fire, theft, storm damage and third party damage must be arranged by the customer.

It is the customers responsibility to ensure compliance with all conditions attached to any local authority approvals.

On placing of order, Solo Timber Frame require frozen architectural drawings in DWG format.

Any delays to the delivery of the Timber Frame to site after the pre-determined delivery date will be subject to an additional yard storage cost of £50 per day until delivery has been made.

Where the Timber Frame interacts with any existing buildings, ie extensions, bungalow lifts etc. A detailed survey will need to be carried out by the customer and issued to Solo Timber Frame in DWG format. Solo will not undertake any site surveys to aid the Timber Frame design, nor be responsible for any adaptions on site if the Timber Frame does not fit with the existing structure correctly.

A skip should be provided for all rubbish and offcuts. If a skip is not provided, off-cuts and general rubbish will be stacked on site for the customer to remove.

Solo Timber Frame must be contacted prior to any alterations to the frame or room layouts being carried out. Work carried out without our approval could result in the engineers' certificate being revoked and additional engineering costs being charged.

At no time will Solo Timber Frame allow retentions or discounted payments to be deducted from its payment terms.

Late payment of invoices will result in interest being charged at 3% above the prevailing Bank of England base rate.

EXCLUSIONS

The items listed below are excluded from our specification, unless otherwise stated.

- 1. Fixing tile battens for roof tiles/tile hanging
- 2. Fixing cavity closures and DPC to external brickwork (DPC fixed by brickwork contractor)
- 3. Fixing soffit bearers, soffit, fascia, bargeboard and tilting fillet
- 4. Fixing valley boards, valley & roof batten support noggins, batten end support timbers around dormer and roof openings
- 5. Fixing of any lead support system
- 6. Rafter ends for fascia & soffits and brickwork detailing, to be trimmed by others
- 7. Fitting of staircase, steps between rooms, skirting board, door sets and window boards
- 8. Fitting/supply of Bay roofs, Porches, Porch support posts, Gallows brackets and Exposed rafter feet
- 9. Supply and/or fitting of any feature timber beams, eg oak
- 10. Supply and/or fitting of steel/catnic lintels designed to carry masonry cladding over the window/external door openings
- 11. Fixing of service and plasterboard noggins, counter battens
- 12. Installation of insulation to any floor, roof, or internal walls, vapour barrier and plasterboard
- 13. Fixing of all cavity barriers outside breather membrane
- 14. Fixing raking panels or studwork under stairs and sloping bulkheads over stairs
- 15. Fitting of Robust Detail acoustic floors, (including decking and insulation)
- 16. Supply and fix of mortar bedding/ply packers to soleplates where out of level
- 17. Fixing of plasterboard to compartment floors
- 18. Building non-supporting knee walls below hips, valleys and dormers
- 19. Fixing of any render support systems including battens and counter battens
- 20. Fixing of windows and doors not supplied by Solo Timber Frame
- 21. Mastic around doors and windows internally and externally
- 22. Site airtightness and sound tests.
- 23. Any material/components not mentioned in this specification.

TRADING STANDARDS BUY WITH CONFIDENCE SCHEME & WHICH? TRUSTED TRADERS

Solo Timber Frame have been vetted and approved by Trading Standards. We are the first and only Timber Frame provider to achieve this.

It took Solo and our local Trading Standards office almost six months to get to a point where we were offered membership of this scheme. CRB checks, interviews with previous customers, chosen at random by the Assessing Officer, checks into our Director's business background, close inspection of our systems and contracts and research into any previous complaints (of which there were none) all formed part of the process. In order to maintain our membership we continue to be monitored.

Additionally, we are members of the Which? Trusted Trader Scheme, which is run along similar lines to Buy With Confidence.

We hope this will give you the confidence to choose Solo to build your new home.



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