



# **ECC Timber Engineering Limited**

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## **Company Profile**

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## **About ECC Timber Engineering Limited**

ECC Timber Engineering Limited is a medium sized specialist-contracting organisation dealing in most aspects of structural timberwork. The company was first established as a partnership in 1988 as the subcontracting arm to an already successful Structural Engineering firm whom themselves specialised in structural timber design.

In 1994 the partners of ECC decided to expand the trading activities of the business and as a consequence the ECC Partnership became a limited liability company namely, ECC Timber Engineering Limited.

From this time, the company has developed a comprehensive range of services and products aimed at providing Architects, Engineers, Contractors, Builders and Individuals with a “one stop” specialised service which can encompass one or a combination of disciplines (refer to Services and Products section). In addition to its core business of structural timber work the company has diversified their activities through setting up a project management company undertaking restoration and new build projects. More recently, the company has acquired a Consulting Engineering Practice who are capable of providing structural design and engineering services on most types of project.

# Personnel

## The Principals:

1. Michael Herbert - Managing Director

A Quantity Surveyor by profession with over 40 years experience in the Construction Industry. A large proportion of this time has been spent working for national and international contractors on a wide variety of projects both in the United Kingdom and overseas. For the past 20 years, Mike has been working for Specialist Contractors' involved primarily in structural timberwork.

2. George Stimpson - Commercial Director

George has over 35 years work experience in the Timber Industry. George has proven ability and experience in timber design, manufacture of timber components and considerable expertise in the various aspects of on-site installation works. As well as his role in the day to day running of the site installation activities George also heads the estimating department.

3. Frank Ward C.Eng M.I Struct.E - Technical Director

A Chartered Structural Engineer with a wealth of experience in structural timber design. As well as being Technical Director of ECC Timber Engineering Limited, Frank is also head of the company's structural engineering consultancy namely, ECC Consulting Engineers. Apart from being involved in general structural design and engineering works Frank, has been involved for over 40 years in the design of numerous timber structures ranging from simple trussed rafter roofs to extremely intricate and complex engineered timber structures.

# Services and Products

## Structural Timber Work

- Timber Design & Engineering Work
- Structural Surveys
- Roofs of Trussed Rafter or Traditional Construction
- Feature Trusses and Purlins
- Timber Framed Buildings
- Timber Road & Footbridges
- Glulamined Timber Post & Beam and Portal Frame Construction
- Geodesic, Lamella & Gridshell Roofs
- SIP's Panel & Mass Wood Structures
- Intelli-Roof™ and Cassette Floor Systems
- External Timber Claddings
- Structural Timber Repair & Restoration Work utilising the latest technology in Fibre Composites and Epoxy Resin Systems
- Site Installation Services
- Complete Design, Supply & Site Installation Packages

**Other services**

- Consultant Structural Engineering Services (ECC Consulting Engineers)
- Project Management of New Build and Restoration / Repair Projects (ECC Project Management)

## List of Clients

Our Client base is varied and amongst these are Local Authorities, Public Bodies and many well-known Contracting Organisations.

*Example list*

- Birmingham City Council
- North Wiltshire District Council
- Railtrack Plc
- Norwest Holst Construction Limited
- John Mowlem & Company Plc
- Laing Management Limited
- Wates Construction Limited
- Carillion Construction Limited
- Kier Regional Limited
- Marriott Construction Limited
- Tolent Construction Limited
- Morrison Construction Limited
- Lotus Construction Limited
- Thermabuild Construction (York) Limited
- Eric Wright Construction Limited
- Costain Limited
- Allenbuild Limited
- Interserve Project Services Limited
- Sir Robert McAlpine Limited
- Gleeson Building Limited

## **Current and recently completed Projects**

### **Birmingham Museum & Art Gallery**

Refurbishment of the existing slated mansard roofs and replacement of the existing patent glazed roof coverings including major structural repairs to the existing brick encased steel frame of the building.

Contract value: £4.5 million (Phase I and Phase II)

Client: Birmingham City Council

Principal Contractor: ECC Project Management

### **Birmingham Town Hall**

Structural repairs to the existing timber roof structure together with ancillary works.

Contract value £632,000

Client: Birmingham City Council

Management Contractor: Wates Construction Limited.

Specialist Contractor: ECC Timber Engineering Limited.

### **Springfields Retail Development, Spalding, Lincolnshire.**

Design, supply and installation of the timber roof structure including associated joinery work.

Contract value: £200,000

Client: Thornfield Developments

Management Contractor: Interserve Project Services Limited.

Specialist Contractor: ECC Timber Engineering Limited.

### **Manchester Oxford Road Station**

Reconstruction of the three main conoidal roof structures and platform canopies including the provision and installation of prefabricated glulam timber gutter beams. Major repairs utilising the latest epoxy resin repair systems were carried out to the existing tied arch beams and portal frame. Cosmetic joinery works, which included timber boarding to the soffits of the main conoidal roof, was also undertaken.

Contract value: £250,000

Client: Railtrack Plc

Management Contractor: Laing Management Limited

Principal Contractor: John Mowlem & Company Plc

Specialist Works Contractor: ECC Timber Engineering Limited

Victoria Law Courts, Birmingham

Replacement of decayed sections of the structural timber roof trusses utilising advanced technology in glass fibre, polyester and epoxy resin repair systems.

Contract value: £435,000

Client: Birmingham City Council

Principal Contractor: ECC Timber Engineering Limited

Liverpool Lime Street Station

Refurbishment and re-glazing of the two existing 180 metres long x 70 metres wide vaulted barrel roofs. ECC are providing hardwood timber supports for the new glazing and re-constructing the arched fascia panels to the East and West fascades.

Contract value: £250,000

Client: Railtrack Plc

Management Contractor: Laing Management Limited

Principal Contractor: Norwest Holst Construction Limited

Specialist Works Contractor: ECC Timber Engineering Limited

Penns Hall Hotel & Country Club, Sutton Coldfield

Structural repairs to existing glulam timber structure and reconstruction of overlay timber roof constructions.

Contract value: £90,000

Client: Jarvis Hotels plc

Specialist Subcontractor: ECC Timber Engineering Limited

New Residential Development, Pontefract, West Yorkshire

Project Management of the construction of a luxury dwelling.

Contract value: £400,000

Client: Private individual

Project Manager: ECC Project Management

Rampton Hospital, Retford

Design, Supply and Installation of the new trussed rafter roof together with ancillary joinery works to the new DSPD units.

Contract value: £245,000

Client: Costain Limited

Specialist Subcontractor: ECC Timber Engineering Limited / Trustspan joint venture.

Ecological Building Society, Silsden, Bradford

Design, Supply and Construction of the complete structural timber frame of the building comprising ply wood box beam portal frames and purlins over clad with insulated timber cassette roof panels.

Contract value: £100,000

Client: Lotus Construction Limited

Specialist Subcontractor: ECC Timber Engineering Limited.

Cheshire Schools PPP, Elsmere Port, Wirral

Design, Supply and Installation of the new trussed rafter roof together with ancillary joinery works.

Contract value: £90,000

Client: Eric Wright Construction Limited

Specialist Subcontractor: ECC Timber Engineering Limited

Black Dog Hill Cycle/Footbridge, Calne, Wiltshire

The bridge design was based on a 40 metres long (span) x 2.10 metres wide 'Kerto' plywood deck (cycle/walkway) and the main 675 x 675mm glulam timber beam which acts as a compressive arch. The rocker beams, fixed under the deck, tied to the main beam (arch) by cables, reduced and stabilised the torsional forces. The unique and innovative design of the bridge led to an extremely complex erection procedure. Careful planning and design of the temporary works structures were of paramount importance. Contract value: £125,000 (design of temporary works and erection of the structure only)

Client: North Wiltshire District Council

Principal Contractor ECC Timber Engineering Limited

Chiroscience Project, Granta Park, Great Abington, Cambridge

Design, Supply and Site Installation of various structural timber roofs comprising a series of glulam timber beams, supported on reinforced concrete columns, with plywood 'I' section beams and infill joists carrying the flat roof decking and covering.

Contract value: £300,000

Client: Chiroscience Limited

Management Contractor: Glanville Projects Limited

Specialist Works Contractor: ECC Timber Engineering Limited/Carevalue Limited (joint venture).

#### 60 Bedroom Nursing Home, East Kilbride, Scotland

Design, Supply and Installation of the new trussed rafter roof together with ancillary joinery works.  
Contract value: £90,000

Client: Thermabuild Construction (York) Limited  
Specialist Subcontractor: ECC Timber Engineering Limited

#### Marlowe Academy, Ramsgate, Kent

Design, Supply and Installation of 56m long x 22m span geodesic shell being 1120m<sup>2</sup> of prefabricated kerto ribs using a bespoke jointing system and overlaid with sheets of prefabricated T & G kerto forming a diaphragm all decoratively finished off site for exposed feature in service and offering Class O fire rating.  
Contract value: £500,000

Client: Wates Construction Limited.  
Specialist SubContractor: ECC Timber Engineering Ltd  
Specialist manufacturer: ECC Timber Engineering Ltd & Timber Engineering Connections Ltd joint venture.

#### Folkestone Academy, Folkestone, Kent

Design, Supply and Installation of 8No 12mØ x 12m high internal 3 storey classroom blocks comprising 2000m<sup>2</sup> curved insulated timber framed wall panels overlaid with 2000m<sup>2</sup> of exposed birch faced plywood and exposed birch ply vertical slats and also having sections of exposed laminated birch ply mullions and transomes with 1200m<sup>2</sup> of 32mm thick double glazed units between plus insulated framing and exposed oak cladding to 2000m<sup>2</sup> of sports hall and performance area external 3 storey buildings with all exposed timberwork decoratively finished and offering Class O fire rating.  
Contract value: £2,100,000

Client: Wates Construction Limited.  
Specialist Subcontractor: ECC Timber Engineering Ltd  
Specialist manufacturer: ECC Timber Engineering Ltd & Cowley Timberwork joint venture.

#### Closegate Hotel, Waterside Development, Durham.

Design, Supply and site Installation of 3000m<sup>2</sup> of structural timber roof and additionally the cedar boarded wall claddings and associated joinery works.  
Contract value: £300,000

Client: Sir Robert McAlpine.  
Specialist Subcontractor: ECC Timber Engineering Ltd

Bowbridge Primary School, Newark upon Trent, Nottinghamshire

Design, Supply and installation of a new build 2 storey block to an existing primary school, 70 m long x 15m wide with a composite glulam timber column and beam support framework with Structurally Insulated Panels (SIPS) forming internal and external shear walls and complete with glulam timber lamella roof with SIPS roofing panels acting as a composite diaphragm.

Contract Value : £850,000

Client: Marriott Construction

Specialist Subcontractor: ECC Timber Engineering Ltd

Specialist Manufacturer: ECC Timber Engineering Ltd & Cowley  
Timberwork joint venture.

Oakley Vale Primary School, Corby, Northants.

Design, Supply & Installation of a geodesic dome learning resource classroom pod approx 4m diameter constructed using 50x50 spruce softwood ribs jointed together using a slotted mild steel 'starfish' jointing plate and including a clear Perspex cladding to the bottom 2 layers of the structure.

Contract Value : £30,000

Client: Marriott Construction

Specialist Subcontractor: ECC Timber Engineering Ltd

Specialist Manufacturer: ECC Timber Engineering Ltd & Cowley  
Timberwork joint venture.

Bradford Royal Infirmary, Bradford.

Design, Supply & Installation of a geodesic dome lecture theatre approx 18m diameter constructed using 150 Ø Douglas Fir Round Poles jointed together using a bespoke jointing system and overlaid with 18mm double curved birch plywood and offering Class 'O' fire rating.

Contract Value : £300,000

Client: Brenville Construction Ltd

Specialist Subcontractor: ECC Timber Engineering Ltd

Specialist Manufacturer: ECC Timber Engineering Ltd & Cowley  
Timberwork joint venture.