

September 2017 - Volume 18 Issue 1

RIDBA JOURNAL

The Premier Rural and Industrial Building Magazine



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A Word from the Editor

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Keeping Safety in Mind

Whichever sector you are in, the chances are that you will be busy at this time of year, and it can be during these busy times that safety concerns are not always top of the priority list.

The 24th – 28th July saw the return of Farm Safety Week at a time when agriculture remains the industry with the highest rate of serious and fatal accidents according to HSE's latest report. Fatal injuries to construction workers account for the largest share, although it is the lowest number on record for the sector – more on this on page 8.

Inspector of Health and Safety for HSE, Wayne Owen, has written an insightful article on pages 6-7 on working at height and managing materials containing asbestos. This coincides with HSE's plans to undertake a number of farm inspection visits across the country over the next few months.

RIDBA Technical Consultant, Martin Heywood, has received a number of questions on CE marking over the last few months. His article on pages 18-19 answers questions relating to second hand buildings, site works, and refurbishment of existing buildings.

Since the last edition we are delighted to welcome two new members: supplier member, AJN Steelstock, an independently owned steel stockholder based near Newmarket; and contractor member, Sharp and Strong, from Watlington in Oxfordshire, who supplies and erects steel buildings. You can find their details along with all RIDBA members in the Member Directory shown on pages 13-17.

FARM SAFETY WEEK 2017

Finally, we always welcome feedback, so please let us know if you have any comments or suggestions on how we can continue to improve RIDBA. You, the members, make RIDBA what it is, and collectively we can all work together to shape the future of the rural and industrial buildings industry.

Thank you to our advertisers who support the RIDBA Journal; please take a moment to look at their advertisements.

We are keen to receive good news stories from members so please keep in touch; either call on **0844 249 0043** or email **Debbie.Iley@ridba.org.uk**.

*Debbie Iley (née Simcock),
Trade Association Manager*



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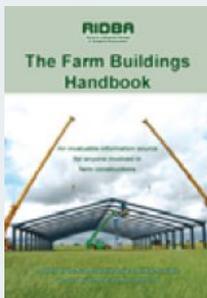


RIDBA News

Image Courtesy of M D Anthony

Farm Buildings Handbook

RIDBA produces the Farm Buildings Handbook – a vital reference for farmers and estate managers considering constructing or maintaining their structures. The handbook is also used by contractors and designers who are looking for a more in-depth knowledge of agricultural construction requirements, such as how much space to allow livestock. The publication is over 200 pages and is available to purchase online at www.ridba.org.uk for £12 plus £2.25 postage and packing.



Dates for your Diary

- 10-12 October, UK Construction Week, NEC Birmingham
- 12 October, RIDBA Wessex Autumn Conference, Beaminster
- 19 October, RIDBA Members' Meeting, The Bathurst Estate, Cirencester
- 21 – 22 October, Countryside Live, Great Yorkshire Showground, Harrogate
- 1-2 November, The National Roofing, Cladding & Insulation (RCI) Show, Ricoh Arena, Coventry
- 8-9 November, Farm Business Innovation Show, NEC, Birmingham

Specialist Advice is Only a Call Away

Through RIDBA's membership of Build UK, we have the opportunity to influence standard setting within the sector, as well as improve the contracting supply chain practices. Build UK brings trade associations together with clients and main contractors, providing a collective voice for the contracting supply chain, offering influential and dynamic leadership, and creating the conditions for the supply chain to thrive. In addition, there are a number of useful resources and helplines available.

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Legal and Contractual helpline (Scotland) offers thirty minutes' free advice per case on construction law, contracts and dispute resolution in Scotland.

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E: info@absoluteinsurancebrokers.co.uk

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Other services include:

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DBS Checks – Security Watchdog

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R&D Tax Credit Claims – Rift Group

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Contact admin@ridba.org.uk if you would like any more information on any of the service listed above.

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Industry News

Work at Height and Asbestos – Two Topics – One Chance

The Health and Safety Executive (HSE) is undertaking farm inspection visits during this work year. Inspections are taking place in late 2017 and early 2018 and will focus on two areas: how farms manage the risk of falls during building maintenance, and how farms assess, manage and control risks from any asbestos present in farm buildings. Use of contractors may form part of both of these topics.

Working at height and managing materials containing asbestos continue to be important issues for farms and contractors to address. The Work at Height Regulations 2005 and the Control of Asbestos Regulations 2012 set out what is required by law. Construction work should also comply with the requirements of the Construction (Design and Management) Regulations 2015.

Between 2012 and 2017, 27 agricultural workers died and many more suffered serious injuries due to falls from height while at work. Falls continue to be the third biggest cause of death in agriculture. When visiting farms, contractors can also be at risk.

Asbestos related diseases kill around 5,000 people in Great Britain each year. Unfortunately some people tend not to see health risks as being particularly important as their effects are not always immediate. Therefore corners are cut, which leads to a significant release of asbestos fibre into the work area; not only giving rise to high risk of long term ill health issues, but significant clean-up costs.

Most farms have some asbestos-containing materials (ACMs), so need to control the risks. Often the risks from asbestos and work at height come together on farms in the form of fragile corrugated cement based sheeting, which is used to clad or roof buildings. However, asbestos can be found in many other forms in agricultural buildings.

Duty to manage asbestos

Farmers should be able to demonstrate that they have identified any ACMs in the workplace. ACMs may be present if a building was constructed or refurbished before 2000.

ACMs are most accurately identified through testing of suspect materials carried out by an asbestos surveyor, but this may not always be necessary. If no testing is carried out and the farm cannot be sure that materials do not contain asbestos, materials should be presumed by the farm to be ACMs and treated as such.

The location and condition of all ACMs should be recorded in a site asbestos register. A map showing the locations of ACMs on the farm is a visual and useful way of knowing at a glance where ACMs are on the farm. The register should be kept readily available and communicated to anyone who carries out work on farm buildings.

Contractors working on buildings should be made aware of exactly where ACMs are on the farm.

A risk assessment should be carried out by the farm to determine whether the ACMs can be left in place and managed, or whether they need to be removed. Where ACMs are in good condition and not likely to be damaged/disturbed, then they may be left in place and any risks managed. A plan to remove or monitor the ACMs should then be drawn up.

The law states that any work on asbestos should only be carried out by competent people. Remember, most work on asbestos insulation, asbestos insulating board and lagging, including sealing and removal, should normally be done by a contractor licensed by HSE. All ACMs which are removed are considered to be hazardous waste and should be disposed of properly.

Where ACMs are left in place, they should be formally monitored at least once a year depending on their condition, to determine whether they are safe to be left in place, or whether they need to be removed. Records of monitoring should be kept by the farm.

A step-by-step guide to managing asbestos including template documents is available free at:

www.hse.gov.uk/asbestos/managing/index.htm

Work at Height

Most activities involving building work, demolition, refurbishment and maintenance of structures (buildings, lagoons, walls etc.) on farms are subject to the Construction (Design and Management) Regulations 2015 (CDM 2015).

These requirements apply whether the work is undertaken by the farmer or by a contractor. When using a contractor, the law imposes particular legal duties on the farm as a 'commercial client' under CDM 2015. The farm should ensure that they are familiar and compliant with these regulations before any construction work is carried out. The contractor and farmer should co-operate to ensure that the work is carried out safely.

Farms often need to carry out work at height when maintaining or erecting buildings. Both should be carried out safely. New buildings should be properly designed by a competent person.

Before undertaking any work at height always stop and think whether it can be avoided. It might be possible to undertake some work from ground level instead.

If that is not possible then all work at height including repairs, cleaning or inspection of roofing, gutters, lighting, etc. should be planned, with the right equipment used, and be carried out by competent people. Remember that fragile materials should have prominent warning signs to alert anyone working in the vicinity, and they must be protected or covered if they are close to work areas.

There is absolutely no excuse for poor working practices when it comes to work at height.

A risk assessment should be carried out for all roof work which assesses not only the task, but also considers environmental conditions such as weather.

There is a safety hierarchy which should be adhered to when considering work at height:

- Avoid work at height if possible
- Where that is not possible and work at height is required, plan the task properly
- Remember that preventing falls is preferable to mitigating against the distance and consequences of a fall. So given a choice between the two, good edge protection is generally preferable to soft landing systems (air bags for example)
- Collective measures such as edge protection / netting etc. are generally preferable to personal measures such as harnesses
- Provide training for any employees who are required to work at height.

Specifically for work on fragile roofs, the hierarchy is:

- Work from underneath the roof using a suitable work platform (it is often possible to crop retaining bolts and replace panels from below)
- Where this is not possible, consider using a Mobile Elevating Work Platform (MEWP) that allows people to work from within the MEWP basket without standing on the roof itself
- If access onto the fragile roof cannot be avoided, perimeter edge protection should be installed and staging used to spread the load. Unless all the work and access is on staging or platforms that are fitted with guard rails, safety nets should be installed underneath the roof or a harness system used;
- Where harnesses are used they need adequate anchorage points. They also rely on discipline, training and supervision to make sure that they are used consistently and correctly.



Asbestos can commonly be found on farms

All too often ladders are seen as a default option when working at height, but if there is a better safer solution then it should be used. While ladders do have their place, they should only be used where the work is of low risk and of short duration, where three points of contact with the ladder can be maintained and the top of the ladder extends at least one metre above the landing place. Ladders should be well maintained and properly secured during use, preferably at the top. Farms and contractors should ensure that ladder use is controlled and is not seen as the default option. Use of ladders is at the bottom of the work at height hierarchy and there are better options in many cases.

Provided they are used safely, properly designed and erected scaffolding, scaffold towers or work platforms are all much better and safer options than ladders. They allow for work to be carried out from within a protected area.

It is often poor planning that results in inadequate safety measures being taken, which in turn can lead to falls. It might take a few minutes to plan, but it really does only take a second to fall. Of the 27 people who lost their lives between 2012 and 2017, it is likely that not one thought that they would fall.

Unsafe work at height really is not worth the risk. Make sure that work at height risks are controlled on your sites.

Thank you to Wayne Owen, HM Inspector of Health and Safety, HSE





Industry News

HSE Releases Annual Workplace Fatality Figures

The Health and Safety Executive (HSE) has released its annual figures for work-related fatalities, plus the number of people known to have died from asbestos-related cancer, mesothelioma.

The provisional annual data for work-related fatal accidents revealed that 137 workers were fatally injured between April 2016 and March 2017 (a rate of 0.43 per 100,000 workers), the second lowest year on record.

HSE Chair Martin Temple said:

“Every fatality is a tragic event that should not happen. While we are encouraged by this improvement on the previous year, we continue unwaveringly on our mission to prevent injury, death and ill health by protecting people and reducing risks.”

New figures show the rate of fatal injuries in key industrial sectors:

- 30 recorded fatalities to construction workers. This is the lowest number on record. However, over the last five years the number has fluctuated - the annual average is 39. In construction it's around four times as high as the all industry rate.

- 27 recorded fatalities to agricultural workers. This is the highest rate of fatal injury of the main industry sectors, around 18 times as high as the all industry rate.
- 14 recorded fatalities to waste and recycling workers. The annual average fatal injury rate over the last five years is around 15 times as high as the all industry rate.

There were 92 members of the public fatally injured in accidents connected to work in 2016/17. Almost half of these occurred on railways, with the remainder occurring across a number of sectors.

Mesothelioma, one of the few work related diseases where deaths can be counted directly, contracted through past exposure to asbestos, killed 2,542 in Britain in 2015, compared to 2,519 in 2014. These figures reflect widespread exposures before 1980.

A fuller assessment of work related ill-health and injuries, drawing on HSE's full range of data sources, will be provided as part of the annual Health and Safety Statistics on 1 November 2017.

www.hse.gov.uk

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BCSA President Makes 'Manifesto' Call for Improved Working Relationships

Steel construction enjoyed another successful year in 2016 and is looking ahead confidently to the challenges of the post Brexit world, out-going BCSA President Wendy Coney told the BCSA National Dinner audience.

Ms Coney said structural steel consumption rose 4% in 2016, approaching the 1 million tonnes mark. The steel construction sector employed 120,000 people directly in fabrication and erection, and many more when the whole steel supply chain is included. Structural steel made a contribution of £3.2 billion to the UK economy, supporting economic growth in communities across the UK and Ireland.

Ms Coney said, following the EC referendum and the general election, her personal manifesto would include calls for policies to support business and investment, confirmation of a commitment to steel

market development and a plea for improved working relationships in the supply chain.

Ms Coney said she was dismayed at cuts in investment in education and health service buildings, which had helped support BCSA members through the recession. "My manifesto calls strongly for renewed investment in education and health infrastructure," she said.

She said BCSA is pleased that infrastructure investment remains a priority for government and the Association strongly supports new nuclear, HS2 and other energy and transport programmes.

"However, we must continue to push for government and their delivery agencies to maintain the momentum and not delay programme delivery," she stressed.

www.newsteelconstruction.com

Computer Software for Steel Design and Fabrication

NSC looks at how computer software is utilised at each stage of the structural steelwork process.

At the earliest stage, modelling and estimation software plays an essential part of the steelwork contractor's role on a project in the bidding process, and its use is increasing. Using this software provides the ability to create a model of the steel frame so steelwork contractors can; visually present the content of their bid alongside the associated costs, provide insight into the sequence of construction works; can identify solutions to reduce health and safety risks and can identify areas for improvement.

Detailed Frame Design, 3D Modelling and BIM

Following appointment on a project, commonly used software in the steelwork sector is that which closely supports the design and fabrication process. For design, structural frame analysis aids the process of calculating the forces, moments and deflections to which the members in a structure will be subjected. Software to carry out analysis of structural elements was first used by the steel construction industry. Over time, it has developed from providing a rudimentary analysis to a comprehensive analysis of very complex structures.

3D modelling software allowing steelwork contractors to create a virtual prototype of the steel frame is one of the most important

pieces of software a modern steel fabricator uses. Importantly, data from other parties can be imported into the modelling software and the steel model can be exported in Industry Foundation Classes (.IFC) format for use by others. It's this function which plays an important role in the adoption of BIM.

The BIM process is about working collaboratively to produce good designs and better assets through fully coordinated and electronic data interfaces. The objective is to provide the building owner with the data they asked for in the format they requested, which they will use to manage and maintain the asset over its lifetime.

Material resource planning

During the design phase, the structural steel will be modelled to facilitate fabrication. Materials Resource Planning (MRP) software then processes the bill of materials data from the model. This is used for procurement of materials, managing data to drive automated cutting and fabrication machinery, planning logistics, and piece weights for crane planning.

MRP software can also be used to monitor progress of fabrication by capturing data about each part as it passes through the different fabrication processes.

For further information visit www.newsteelconstruction.com



Industry News

We Need to Make it Easier for Rural Communities to Build

The struggle to get a village hall built in Devon shows how the system is stacked against rural areas, writes Ben Flatman for Building Design.

Rural England is not the most fashionable context for architectural practice. Planning laws have often made it hard to build in the countryside. Most architecture schools and many young architects tend to be focused on cities, and among those who strive to deliver socially impactful architecture, there's often an assumption that the "real" architectural problems are purely urban.

But rural communities are facing their own distinct challenges as their economies struggle to create well-paid jobs. In areas of seeming affluence, local people are increasingly marginalised, often priced out by second home owners and cash-rich professionals. Much of rural England underperforms EU averages for wages and economic opportunity.

Disempowered by what many believe is the developed world's most centralised system of government, and facing the increasingly harsh cuts imposed by austerity, England's villages and agricultural communities often struggle to manage their own destinies. While central government, rightly, pushes the agenda of more devolved powers to city regions, there's a risk that rural areas are left behind.

A new village hall in south Devon illustrates both the challenges of getting things built in the age of austerity, but also the vital role that community-led projects can play in helping improve the quality of life in rural areas. Broadhempston is a relatively remote village, which lacked sports facilities and shared community space which many places take for granted. The parish council had bought a piece of land with the idea of developing a new hall, but struggled to find funding.

With most of English taxation collected centrally and spending allocated by Westminster, local government has little leeway to raise revenue or decide how money is spent. England's 9,000 parish councils sit at the bottom of governmental structure and receive a pitiful £1 billion in funding between them annually. For Broadhempston, this meant the village was forced to go begging to the National Lottery to fund what is widely seen as basic community facilities in much of continental Europe.

According to Peter Sheridan, a local resident who effectively project managed the hall, only 5% of applicants to the Lottery's Reaching Communities buildings fund are successful. Even when

Broadhempston was offered £500,000 towards its village hall by the National Lottery, it was clear this was inadequate. The money had to be spent within a set period, so a race began to cost engineer a project that could be delivered on time to such a tight budget.

Given the difficulties of raising adequate funding for community building projects in rural England, even with Lottery money, it's testimony to the commitment of Peter Sheridan and the village hall trust, as well as the perseverance of local practice van Ellen and Sheryn, that the project came to light. The initial planning approval, for an ambitious sedum-roofed structure had to be scrapped, and replaced by a rugged, stripped-back design. Ultimately, the project was only deliverable through a design-and-build contract.

Like any committed architect, Eilir Sheryn talks enthusiastically of the site, and how he and his team sought to "create something different and unique for the community." He bemoans the loss of the original design, but is proud to have helped deliver a quality new facility for Broadhempston. He talks of the compromises made on finishes and materials that are familiar to many architects on public projects. As so often, the architecture was squeezed to the fringes of this project.

Since completion of Broadhempston Village Hall, the National Lottery has closed the Reaching Communities buildings fund, although an alternative application process still offers capital support of up to £100,000. Given the challenges Peter and Eilir faced in delivering their project, it's difficult to imagine what of real architectural value can realistically be achieved with such minuscule budgets.

A village hall project may seem insignificant, given the other challenges facing rural communities. However, it highlights the problems faced by so many communities held at arm's length by central government and its often London-based funding agencies. Without delegated power and resources, rural communities struggle to offer basic facilities, let alone address more profound issues relating to housing and economic development. England's cities are finally moving towards more devolved models of government and funding. It's time the countryside was allowed to follow the same path.

www.bdonline.co.uk

"Since completion of Broadhempston Village Hall, the National Lottery has closed the Reaching Communities buildings fund, although an alternative application process still offers capital support of up to £100,000."

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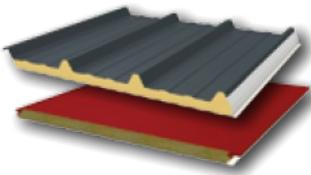
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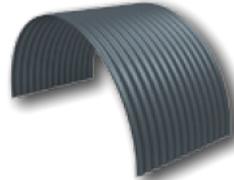
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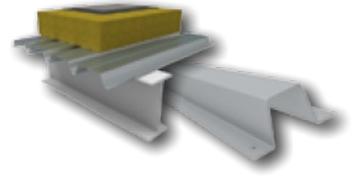
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Build UK News



Build UK Partners with SimpleTax

Build UK and SimpleTax are working together in leading the way to ensure a smooth digital transition to self-assessment in the construction industry.

SimpleTax is a Cloud based software that calculates your tax as you go, and is designed to file an accurate self-assessment tax return online. They are offering Build UK members a 25% discount on their website price.

The software allows anyone who needs to calculate and file their self-assessment return quickly and easily, as well as record ongoing income and expenses on either desktop, or via their mobile app, which allows for the scanning of receipts and invoices.

The system updates and calculates automatically, allowing users to see their tax liability on an ongoing basis. It also displays potential tax tips and savings too, as well as being able to submit direct to HMRC.

This is the first innovation of HMRC's vision to be able to calculate and submit directly from a mobile device. The partnership between Build UK and SimpleTax will give members an opportunity to see how simple doing your own self-assessment and getting ready for Making Tax Digital really is, from sole traders to Directors.

To find out more about how you can benefit from this partnership please contact Amanda@gosimplesoftware.co.uk or call **0161 413 5041**.

Bridge into Construction Programme Takes Shape

Build UK and Collab Group's 'Bridge into Construction' programme is taking shape and is being promoted to potential students in advance of the new academic year.

Developed from employer feedback, the course offers a clear route into a career in construction; linking students to genuine work experience opportunities and providing employers with direct access to a 'talent pool' of potential apprentices.

The one year further education course will begin on 1 October 2017 and will be piloted by Leicester College, Sheffield College and South Thames College. The course will provide a consistent level of training and competence, and equip students with introductory skills they need to embark on an apprenticeship in construction, resulting in a strong foundation for a future career in the industry.

Suzannah Nichol MBE, Build UK Chief Executive said:

"This programme has the potential to be a game changer for construction. Providing a course that offers the work-ready skills employers are looking for, increases the chances of students pursuing a career in construction and taking up an apprenticeship. We now need employers of all sizes to play their part, by offering work experience to young people attending their local college, and take the opportunity to secure their next apprentice and future workforce."



Ian Pretty, Chief Executive of Collab Group said:

"This exciting project is a real opportunity for Collab Group Colleges to make a difference to the work outcomes of the students who attend construction courses. Engaging with industry via Build UK and its members will increase the number of young people entering a construction apprenticeship, reducing the number who are currently leaving construction FE courses to pursue alternative careers."

For further information, please email Sarah.Garry@BuildUK.org at Build UK or Tom.Lowe@collabgroup.co.uk at Collab Group.

Member Directory

Frame Manufacturers

Companies that manufacture steel or timber framed buildings

3b Construction

South Street Depot, Port William, Newton Stewart, Dumfries & Galloway, DG8 9SH
01988 700 000
heather.vance@3bconstruction.co.uk
www.3bconstruction.co.uk

A C Jackson Ltd

Basford Old Creamery, Newcastle Road, Chorlton, Cheshire, CW2 5NQ
01270 588 841
info@acjackson.co.uk
www.acjacksonltd.co.uk

A J Griffiths Engineering Ltd

Greenacre, Suckley, Worcestershire, WR6 5EH
01886 884 294
ajgriffithsengltd@msn.com
www.ajgriffiths.com

A. J. W. Engineering Ltd

Low Brockholme Farm, Streetlam, Danby Wiske, Northallerton, Yorkshire, DL7 0AJ
07966 406 271
ajw.engineering@virgin.net

A.C. Bacon Engineering Ltd

Norwich Road, Hingham, Norfolk, NR9 4LS
01953 850 611
steel@acbacon.co.uk
www.acbacon.co.uk

A.J. Lowther & Son Ltd

The Factory, Whitchurch, Ross-on-Wye, Herefordshire, HR9 6DW
01600 890 482
info@ajlowther.co.uk
www.ajlowther.co.uk

Adelad Cladding Ltd

The Stores, Station Road, Llanwrda, Carmarthenshire, SA19 8EH
01550 777 497
adclad@live.co.uk
www.adclad.co.uk

AJ Hayton Welding & Fabrication Ltd

Bainsbeck Barn, Arkholme, Nr Carnforth, Lancashire, LA6 1BA
01524 222242
email@ajhayton.plus.com

Alan Jukes Steel Framed Buildings Ltd

Cae Mawr, Llanfechain, Powys, SY22 6XH
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alanjukes@btinternet.com
www.alanjukes.co.uk

Allen Fabrications Ltd

Davies Road, Four Pools Industrial Estate, Evesham, Worcestershire, WR11 1DR
01386 47277
info@allenfabs.co.uk
www.allenfabs.co.uk

Andenor Ltd

74 Rowan Way, Balderton, Nottinghamshire, Newark, NG24 3BJ
01623 490555
stuart@andenor.com

Balsham (Buildings) Ltd

1-2 Rosemary House, Lanwades Business Park, Kennet, Newmarket, Suffolk, CB8 7PN
01223 894 404
mickg@balsham.uk.com
www.balsham.uk.com

Betterskill Ltd

Unit 1, Old Ifton Colliery, Glyn Morlas Lane, Oswestry, Shropshire, SY11 3DA
01691 777 308
info@betterskilltd.co.uk
www.betterskilltd.co.uk

Bowie Lockwood Structures Ltd

Coombe Abbey Farm, Coombe Fields Road, Binley, Warwickshire, CV3 2SX
0845 2572 343
sales@bowielockwood.co.uk
www.bowielockwood.co.uk

C.E. Davidson Ltd

South View, Fressingfield, Eye, Suffolk, IP21 5PJ
01379 388 077
charlie@cedavidson.co.uk

Chris Hodgson Engineering Ltd

Seven Acres, Hollocombe, Chumleigh, Devon, EX18 7QH
01769 520 422
info@chrishodgson.biz
www.chrishodgsonengineering.co.uk

Colley (Farm Buildings) Ltd

The Airfield, Cranswick Ind Est, Beverley Road Cranswick, Driffield, Yorkshire, YO25 9PF
01430 810 210
enquiries@colleyfarmbuildings.co.uk
www.colleyfarmbuildings.co.uk

Collins Design & Build Ltd

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0198 1240682
info@collinsdb.co.uk
www.collinsdb.co.uk

Core Steel Ltd

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01273 815 932
info@dannddconstruction.co.uk
www.dannddconstruction.co.uk

Culm Valley Farm & Industrial Buildings Ltd,

Bridge Street, Bridge Works, Uffculme, Devon, EX15 3AX
01884 841 557
culmvalleyfarmbuildings@btconnect.com
www.culmvalleyfarmbuildings.co.uk

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D G Ashley Ltd

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01377 270 525
D6ash@aol.com

D Jones Welding

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01558 822 381
djoneswelding@hotmail.co.uk

DeVillie and Lear Ltd

Mill Lane, Roston, Ashbourne, Derbyshire, DE6 2EE
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Dunn (Canadian - UK) Ltd

86 Spencer Road, Wigan, Lancashire, WN1 2QP
01942 237 487
dunnstorm650@aol.com
www.dunncanadian.co.uk

Eagle Structural Ltd

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Emmerson Doors Ltd

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www.emmerson-doors.co.uk

Ernest Leng and Son

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www.ernestleng.co.uk

F.W. Yelland & Son (Northlew) Ltd

Oljonna House, Station Road, Okehampton, Devon, EX20 3BN
01409 221 445
admin@yellands.free-online.co.uk
www.yelland-construction.co.uk

Farmplus Constructions Ltd

Shay Lane, Longridge, Preston, Lancashire, PR3 3BT
01772 785 252
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www.farmplus.co.uk

Fowler & Gilbert Ltd

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info@flgb.co.uk
www.flgb.co.uk

FP McCann Ltd

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G & T Evans

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gtevans1@aol.com
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Gareth Pugh Steel Framed Buildings Ltd

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George W Addison

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GLE Structural Ltd

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mark.stone16@btinternet.com

Glendale Engineering (Milfield) Ltd

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info@glendaleengineering.co.uk
www.glendaleengineering.co.uk

GLT & Son Roofing Services Ltd

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07837 958 144
gltroof@ymail.com

Harry West (Prees)

Lower Heath Prees, Whitchurch, Shropshire,
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Hemmings Construction Ltd

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Hext Construction Ltd

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IN Fabrications Ltd

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J A S Construction

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jas.construction.js@gmail.com
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J. Wareing & Son (Wrea Green) Ltd

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Knapp Farm Buildings

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L.K.L Construction

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Lancashire Steel Buildings

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www.mjbarrettgroup.co.uk

M.D. Anthony Ltd

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Magna Buildings Ltd

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Gloucestershire, GL56 0XW
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general@magnabuild.com
www.magnabuild.co.uk

Mervyn Rose Engineering Ltd T/A Rose Engineering

Paradise Farm, Bagber, Sturminster Newton,
Dorset, DT10 2HB
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info@rose-engineering.co.uk
www.rose-engineering.co.uk

Minshall Construction (UK) Ltd

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www.minshallconstruction.com

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www.molevalleyfarmers.com

Norman & Gray Ltd

65 Kingfisher, Pickering, Yorkshire, YO18 8TA
01751 472 812
phil@pjohnorman.co.uk
www.pjohnorman.co.uk

Northern Structures Ltd

Amble Industrial Estate, Amble, Northumberland,
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01665 710 746
anthony.nelson@northernstructures.co.uk
www.northernstructures.co.uk

P McKenna's Agricultural Service

Esh Winning Industrial Estate, West Terrace,
Esh Winning, Durham, DH7 9PT
0191 373 3187
pmckenna_agri_servis@hotmail.com

Paul Huxley Construction Ltd

Unit 25 Rednal Industrial Estate, West Felton,
Oswestry, Shropshire, SY11 4HS
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sales@paulhuxleyconstruction.co.uk
www.paulhuxleyconstruction.co.uk

PDL Timber and Steel Frame Construction Ltd

26 Tudor Road, Lincoln, Lincolnshire, LN6 3LL
07768 566 589
pdlconstruction1@ntlworld.com

Portable Venues (Group) Ltd

Unit 25, Manor House Farm, Dordon Hall Lane
Grendon, Atherstone, Warwickshire, CV9 2EX
01827 330 000
enquiries@smart-space.co.uk
www.smart-space.co.uk

Preston Steel Structures

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Lancashire, LA2 8JD
01524 251 542
info@prestonsteelstructures.co.uk
www.prestonsteelstructures.co.uk

R E Buildings Ltd

Spout House, Bay Horse, Lancaster, Lancashire,
LA2 9DE
01524 792 247
sales@rebuildings.co.uk
www.rebuildings.co.uk

R J Doak & Sons Ltd

Northfaulds, Lanark, Lanarkshire, ML11 7SA
01555 661 425
rjdoakltd@gmail.com
www.doakco.com

Reynolds Builders Ltd

Upper Broadmoor Farm, Talbenny, Little Haven,
Haverfordwest, Pembrokeshire, SA62 3XD
01437 781 758

RG Welding Ltd

Cleveland House, St Ive, Liskeard, Cornwall,
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07976 091875
helen@rgwelding.co.uk

Riverlea Ltd

Cardigan Road, Crymych, Pembrokeshire,
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sales.cr@riverlea.co.uk
www.riverlea.claas-dealer.co.uk

RM Gibbons Ltd

1 Catherines Lane, Bickerstaff, Ormskirck,
Lancashire, L39 9EL
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gibbonsroger@aol.com

Robinson Structures Ltd

Eagle Park Industrial, Alfreton Road, Derby,
Derbyshire, DE21 4AE
01332 574 711
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www.robinsons.com

Robinsons Scotland Ltd

Broomhouses 2 Industrial Estate, Old Glasgow
Road, Lockerbie, Dumfries and Galloway,
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01576 205 905
sales@rbscotland.co.uk
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Ron Whitfield Engineers Ltd

Manorfield, Fridaythorpe, Drifffield, Yorkshire,
YO25 9RT
01377 288 263
gwhitfield72@gmail.com

RWHB Ltd

Belston Cottage, Sinclairston, Cumnock, Ayrshire,
KA18 2RU
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enquiries@rwhb.co.uk
www.rwhb.co.uk

S and A Fabrications Ltd

Harmire Enterprise Park, Barnard Castle,
County Durham, DL12 8EH
01833 690 379
fabs@s-and-a.co.uk
www.s-and-a.co.uk

S. Schofield Steel Fabrications Ltd

Cookson's Yard Beverley, Carr Lane, Hambleton,
Lancashire, FY6 9BB
01253 702 806
info@schofieldsteel.co.uk
www.schofieldsteel.co.uk

Scorpion Engineering Construction Ltd

Brunel Court, Elcot Lane, Marlborough, Wiltshire,
SN8 2AZ
01672 514 471
sales@scorpionbuildings.co.uk
www.scorpionbuildings.co.uk

SDM Fabrication Ltd

Foundry Way, March, Cambridgeshire, PE15 0WR
01354 660 895
richard@sdmltd.co.uk
www.sdmstructures.com

Severn Fabrications Ltd

Unit 3, Maesbury Mill, Industrial Park, Oswestry,
Shropshire, SY10 8BB
01691 653 506
info@severnfabrications.co.uk
www.severn-fabrications.co.uk

Shufflebottom Ltd

Cross Hands Business Park, Cross Hands, Llanelli,
Carmarthenshire, SA14 6RE
01269 831 831
alex@shufflebottom.co.uk
www.shufflebottom.co.uk

Smith Contracts Scotland Ltd

Lawersbridge Farm, Mauchline, Ayrshire, KA5 6EU
01290 559358
enquiries@smithcontractsscotland.com
www.smithcontractsscotland.com

Smyth Steel Ltd

Anvil Works 15 Gorran Road, Coleraine,
Londonderry, BT51 4HA
028 7086 8544
js@smyth-steel.co.uk
www.smyth-steel.co.uk

South West Steel Construction Ltd

Holsworthy Industrial Estate, Holsworthy,
Devon, EX22 6ER
01409 253 211
info@southweststeelconstruction.co.uk
www.southweststeelconstruction.co.uk

Steel Fabricators (Wales) Ltd

3 Nantyglyn, Cwmman, Lampeter, Dyfed, SA48 8JT
01570 493 253
enquiries@steelfabwales.co.uk
www.steelfabwales.co.uk

Steeltek Structural Steel

Unit 4-6 Mallard Industrial Park, Charles Street
Horbury, Wakefield, Yorkshire, WF4 5FH
01924 283 355
Neil.Fox@steeltek.co.uk
www.steeltek.co.uk

Structural Weld Ltd

Church Farm, Church Lane, East Lydford,
Somerton, Somerset, TA11 7HD
01963 351 293
structuralweld@btconnect.com

Supercraft Structures Ltd

Shobdon Airfield, Shobdon, Near Leominster,
Herefordshire, HR6 9NR
01568 708 456
info@supercraftltd.co.uk
www.supercraftltd.co.uk

T & P Metcalfe & Sons Ltd

Forgewood House, Wray Road, Wennington,
Lancaster, Lancashire, LA2 8NN
01524 222 230
enquiries@tpmetcalfe.co.uk
www.tpmetcalfe.co.uk

Tilke Engineering Ltd

Lyndale, Bellhouse Lane, Anslow, Burton-on-Trent,
Staffordshire, DE13 9PA
01283 563 756
craig@tilkeengineering.co.uk
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Timberwood Systems Ltd

ROINE ENTREPRISES, Za La Vague Noe,
Domalain, 35680, France
0033 299 965 465
rpigeon@roine.fr
www.timberwoodsyste.ms.co.uk

Timmins Engineering and Construction Ltd

Innovation Works, Caenby Hall Business Park,
Caenby Corner, Market Rasen, Lincolnshire,
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01673 878800
info@timminsagricultural.co.uk
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Titan Steel Ltd

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info@titansteel.co.uk
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United Products Ltd

Evenwood Industrial Estate, Copeland Road,
Evenwood, County Durham, DL14 9SF
01388 834 295
Michael.Hammond@cagroup.ltd.uk
www.united-products.co.uk

W E Phillips and Sons Ltd

Unit 12, Honiton Business Park, Ottery Moor Lane,
Honiton, Devon, EX14 1BG
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W H Ricketts & Sons

Forge Works, Ffynnon Gynydd, Glasbury on Wye,
Powys, HR3 5LX
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Webcox Engineering Ltd

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Wilson Construction Ltd

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Morpeth, Northumberland, NE61 3AY
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Worman Construction Ltd

Beachley House, Beach Road, St. Brides, Newport,
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worman.constructionltd@btinternet.com
www.worman-construction.co.uk

Wrightway Structural Steels Ltd

The Steelyard, R/O Greycotts, Copes Road,
Great Kingshill, Buckinghamshire, HP15 6JA
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sales@wrightwaysteels.co.uk
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Yield Engineering Ltd

10 High Street, Roxton, Bedfordshire, MK44 3EA
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www.yieldengineering.co.uk

Yorkshire Steel Buildings (Holdings) Ltd

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Yorkshire, DL8 1AU
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www.yorkshiresteelbuildings.co.uk

Supplier Members

Companies that manufacture or supply products related to the rural and industrial buildings industry

3DCAD4U Ltd

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07512 104890
john@3dcad4u.com
www.steel-connections.co.uk

A Steadman & Son

Warnell, Welton, Carlisle Cumbria,
CA5 7HH
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alanq@steadmans.co.uk
www.steadmans.co.uk

Acorus Rural Property Services Ltd

Old Market Office, Risbygate Street,
Bury St Edmunds, Suffolk, IP33 3AA
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Briarwood Products Ltd

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norman.morter@briarwoodproducts.co.uk
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Capital Steel Group Ltd

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alanh@capitalsteelbuildings.co.uk
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Cembrit Ltd

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ged.ferris@cembrit.co.uk
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Duggan Steel Group Ltd

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MEGAN@steel.ie
www.steel.ie

Farmsmart Events Ltd

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Carnforth, Lancashire, LA6 2HA
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andy@farm-smart.co.uk
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Filon Products Ltd

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markwilcox@filonproducts.co.uk
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Hadley Group

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West Midlands, B69 3AZ
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brian.cartwright@hadleygroup.com
www.hadleygroup.co.uk

Hereford Galvanizers Ltd

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Herefordshire, HR4 9NS
01432 267 664
peter.shipleigh@hereford.galvanizers.co.uk
www.galvanizers.co.uk

Hornsey Steels Ltd

Riverlea, Bedstone Road, Shropshire, S47 0AQ
01547 530419
info@hornseysteels.co.uk
www.roofing-sheets.co.uk

Huck Nets (U.K.) Ltd,

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DT6 3UX
01308 425 100
dave.collins@hucknetting.co.uk
www.huck-net.co.uk

IAE

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James E. Smith (Timber) Ltd

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Joris Ide NV

Elmbridge Court, Gloucester, GL3 1JZ
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keith.green@joriside.co.uk
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Joseph Ash Galvanizing

The Alcora Building 2, Mucklow Hill, Halesowen,
Worcestershire, B62 8DG
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Kingspan Insulated Panels Ltd

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Marley Eternit Ltd

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MDS Industries Ltd

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ralph@mdsind.co.uk
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Pro Net GB Ltd

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Doncaster, DN8 4SP
01405 817557
ian@pronetgb ltd.co.uk
www.pronetgb ltd.co.uk

RNT Tanks & Silos Ltd

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Bedfordshire, SG19 2HX
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ashley.gurney@rnttanks.com
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Truro House, Derby, Derbyshire, DE21 6LY
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Tata Steel

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Thomas Panels & Profiles Ltd

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Herefordshire, HR6 0QF
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United Roofing Products

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Technical Update

CE Marking of Construction Products

It is now more than 4 years since the Construction Products Regulation (CPR) came into force on 1 July 2013, bringing with it compulsory CE marking for many construction products. Steel frame manufacturers had some breathing space, since compulsory CE marking for fabricated steelwork was not introduced until July 2014, but CE marking is now the norm for most construction product manufacturers and their clients. Despite this, there is still some confusion over the scope and nature of the CE mark, as evidenced by frequent questions to the RIDBA advisory service. The aim of this article is to review the key points relating to the CE marking of steel frames and clarify some of the areas of confusion.

Overview

The scope of the CPR is broad and covers all construction products manufactured by some kind of process within a factory environment and then placed on the market for incorporation into the permanent works. It does not cover items made using traditional craft methods or bespoke specialist items not manufactured by a regular process, but almost everything else is within scope.

Three key points to note:

- In order to fall within the scope of the CPR, the products must be intended for use in the “permanent works”, i.e. they must form part of the finished building and should not be easily removable. Temporary works items or removable objects such as furniture are not included.
- The CPR only covers factory-based manufacture, not site-based construction activities. For example, bricks are covered, but traditional brick walls are not. The responsibility of the manufacturer ends when the product leaves the factory gate.
- Steel frames are included within the scope of the CPR, despite the fact that they are often custom-made to suit the requirements of a particular building. This is because they are manufactured using a repetitious process within the fabrication shop (e.g. cutting, drilling, welding); it is only the dimensions that change.

CE Marking is a declaration by the manufacturer that a product complies with all relevant EU regulations and directives. From the introduction of the CPR in July 2013, it has been compulsory to CE mark all construction products that are covered by a harmonised European standard (hEN) or European Technical Assessment (ETA). This includes fabricated steelwork and cladding products used on farm buildings. All RIDBA members who manufacture frames have met their legal requirements to CE Mark their relevant products and all non-manufacturing members only purchase products which have CE Marking. Clients are strongly advised to specify only CE marked products within their buildings, since this is the only way to ensure that they comply with current regulations.

In theory, the CE mark is applied to the product at the end of the production process and before it leaves the factory gate, although in practice it is quite likely that the mark and corresponding performance information will be contained in the accompanying documentation or on the packaging. The CE mark applies to the product as it exists when it leaves the factory gate, or technically speaking when it is placed on the market. It is, therefore, a declaration by the manufacturer relating to the product as sold, not necessarily as used. The end users can do whatever they wish to the products once they take possession of them, but the manufacturer will no longer be responsible for the performance of the product.

Under the CPR, products are assessed against the following product characteristics:

1. Mechanical resistance and stability
2. Safety in case of fire
3. Hygiene, health and the environment
4. Safety in use
5. Protection against noise
6. Energy economy and heat retention
7. Sustainable use of natural resources

Not all of these characteristics will be applicable to all products and manufacturers should seek guidance from the appropriate harmonised standard, where available.

Fabricated Steelwork

For fabricated structural steelwork, the appropriate harmonised standard is BS EN 1090-1. This document contains the high level requirements for CE marking along with the means of assessment for each of

the requirements. These requirements will form the basis of the Factory Production Control (FPC) document against which the steelwork fabricator is audited. BS EN 1090-1 references BS EN 1090-2, the execution standard, on issues such as fabrication tolerances and welding, although not all of the requirements given in this latter standard are relevant for CE marking (e.g. erection tolerances).

It is worth emphasising that BS EN 1090-1 specifically applies to steel and aluminium structural elements (e.g. beams, columns or portal frames), so the scope does not include requirements for protection against noise or energy economy and heat retention, both of which are matters for the building envelope. Indeed, most of the emphasis is on the accurate fabrication and correct welding of the steel elements to ensure that structural strength and stability requirements are met.

Strictly speaking, the design of the steel frames does not have to be included within the CE marking process, since there is an option within BS EN 1090-1 to simply state the geometry of the members and material properties in order to allow the client's engineer to verify the adequacy of the design. Clients also have the option to design the steelwork themselves, in which case the frame manufacturer simply needs to declare that the frame has been fabricated to the client's design. These routes, however, are only available where the client employs a fully qualified structural or civil engineer to act as designer. For the vast majority of agricultural buildings, the responsibility for design lies with the frame manufacturer, so the design procedure should be included within the audited FPC processes.

Other Building Products

Other products sold as part of the building package, but not manufactured directly by the frame manufacturer may also need to be CE marked, if there is an appropriate hEN or ETA. Examples include insulated sandwich panels to BS EN 14509, profiled steel roof and wall cladding to BS EN 14782 and bolting assemblies to BS EN 15048-1 and BS EN 14399-1.

The responsibility for CE marking lies with the organisation placing the product on the market, so frame manufacturers who buy products from a third party to sell on to their clients must ensure that they are CE marked before being sold. The easiest way to achieve this is to only purchase CE marked products.

Frequently Asked Questions

1. I want to sell an existing building second hand, do I need to CE mark it?

The CE mark is applied to a 'new' product when it leaves the factory gate. Existing products already in use cannot be CE marked retrospectively, even if they are moved from one site to another. Furthermore, the CE mark does not apply to the whole building, only to the products used to construct it, e.g. the steel frames, so it is meaningless to talk about CE marking the building. If the steel members were salvaged from an existing building and then modified in some way by a fabricator before being re-sold, they could then be considered to be 'new', so may require a CE mark.

2. My steel frames required modification on site due to poor fabrication and the fabricator is using this as an excuse for not supplying a CE mark.

The fabricated steelwork used to construct the frames should have been CE marked to EN 1090-1 before leaving the fabricator's yard. Whatever happens to that steelwork on site is irrelevant. It should not have left the fabrication yard without a CE mark and, if it did, the company selling it was breaking the law. If the fabrication was of such poor standard that the building did not meet the requirements of EN 1090, this does not excuse the lack of a CE mark, although it possibly explains it.

3. Can I replace damaged members in an existing building without replacing the whole building? The frame manufacturer has told me that he needs to replace everything to comply with CE marking rules.

As noted above, the CE mark applies to the frames and not the whole building, so it is perfectly acceptable to supply new CE marked steelwork to repair or refurbish an existing building. There is no need to demolish and replace perfectly good steelwork in order to comply with the regulations. Site works are excluded from the CE marking process, so the erection of the new steel members along with any on-site fabrication (e.g. welding new cleats to an existing rafter) are not covered by the CE mark.

4. I would like to take down my frames, have them refurbished off site and then re-erected. Do they need a CE mark?

Products are only CE marked when they are placed on the market so a fabricator could take down the frames, refurbish and then re-erect them on the original site them without needing to apply a CE mark.

Martin Heywood
RIDBA Technical Consultant





Branch Update – Wessex

RIDBA Wessex Autumn Conference

RIDBA Wessex has arranged a visit for its members to the Clipper Teas development site in Beaminster, West Dorset.

This year, Wessex Group's autumn conference will feature a change from the usual format of seeing the latest design project all finished and on show, to an opportunity to see a 'project in progress', and examine being involved in a brown field site scheme.

Following the prosperity of the flax and hemp industries in the 50s and 60s, Beaminster saw itself enjoying good employment with a milk factory, a plastics factory, a couple of large builders, an agricultural engineer and a large quarry transport company. When a typical downturn occurred, the transport company and several of the others closed, and after a period of minimal activity, Clipper

Teas purchased this site and ran it very successfully. They were taken over by present owners, Wessanen in 2012. They have plans to expand the production of the specialist tea range to cover their requirements in an ever-expanding European and International market.

There were difficult ground conditions encountered on site, ranging from limestone at one end, to silt over mudstone at the

Cemsix fully compressed fibre cement sheet.

other. A 1950's culvert existed adjacent to the line of stanchions nearest the new access road, which meant utilising piled foundations, and due to the underlying stone needed to be of the ODEX type. The pile caps were linked with ground beams, and where there was insufficient height above the culvert, with steel UC's encased in concrete.

The design of the frame was chosen to maximise stability over the span using the one piece gusset with the joints positioned at the points of contraflexure of the rafters. All structural steel has a painted finish applied at the works.

At the north end of the building there is a mezzanine extending to 200 sq. m. on two raised storeys with full fire separation, due to the production process falling under the DSEAR 2002 regulations. The mezzanine is constructed using galvanised cee sections, 38mm Streboard flooring, all fire lined beneath with Viroc Versapanel. A goods lift will be installed to access all floors.

At the south end of the building, offices and staff facilities are housed on three floors constructed using widespan beams with a heated screed. Partitions are of blockwork on the ground floor and primarily metal stud on the subsequent floors. A personnel lift will be installed to access all floors.

Autumn Conference Programme

RIDBA Wessex Branch invites you to join them for their Autumn Conference and Visit to Clipper Teas in Beaminster on **Thursday 12 October 2017**. The day will commence at the Public Hall, Beaminster, DT8 3EF.

The event sets out to highlight the involvement of clients, designers, planners, authorities, and contractors to develop a brown field site into a modern facility, providing efficient working conditions and a pleasant office environment, together with warehouse capacity and handling.

Programme

10.30	Arrive, Register and Coffee
11.00	Introduction
11.10	Planning, Building Regulations and Involvement with Authority. Brown Field Implications and site variations
11.40	Clients' expectations
12.00	Contractor's Report
12.20	Questions and Discussion
1.00	Lunch
2.00	Move to site at Clipper Tea
2.30	View of Site and Ongoing Works
2.50	Tour of Existing Factory and Production Area
3.30	Questions and Discussion
4.00	Final Remarks and Conclusion

Cost for the day including lunch is £15.00.

To book your place please email admin@ridba.org.uk.

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Image Courtesy of Briarwood Products



Major Extension to Dairy Farm

When a Wiltshire Dairy Farm's fast expanding business needed to increase its herd by 350 cows, the capacity and facilities required major construction. The result was two new buildings and over 1,500 m² of EUROSIX Natural Grey fibre cement roof sheeting. The specification was EUROSIX fibre cement duo pitch roofs with open protected ridge systems to provide efficient ventilation, allowing clean fresh flowing air within the building and support the comfort and welfare of the livestock. Other major benefits of a fibre cement roof are a maintenance-free and watertight roof covering with a natural vapour permeability which minimises the effects of condensation along with excellent acoustic insulation.

Briarwood's ability to service this project at short notice was a key consideration for both the farmer and contractor, along with the quality and performance of EUROSIX fibre cement roof sheeting. Briarwood was able to assist with delivery from what is the largest stockholding of fibre cement roof sheeting in the UK along with a full range of fittings for all natural grey and painted material, which are all available for distribution around the UK on Briarwood's own fleet of transport.

EUROSIX fibre cement sheets are reinforced and manufactured under QS ISO 9002, Class C, covered by CE certification and fully BBA approved. Further information of all products and services from Briarwood Products can be found on our website www.briarwoodproducts.co.uk.

Head Office Expansion for CA Group

CA Group has expanded its County Durham headquarters. The company, which is a cladding systems manufacturer, and contractor and supplier for the industrial, commercial, public sector and refurbishment markets, has erected a new building in a bid to free up "significant space" to allow for further expansion.

The extension, which will house all of the company's fixtures and fittings, was built by group subsidiary United Products (UP) in a week.

Michael Hammond, business development manager for UP, said: "Our aim is to provide an unprecedented level of quality and service with every project we undertake.

"Working with the team at our HQ has been a great exercise in practicing what we preach and we are all very happy with the results."



Member News

Image Courtesy of David Kirkham, Fisheye Images

International Aviation Academy – A World First

A. C. Bacon Engineering Ltd worked closely with Norfolk-based Main Contractor R. G. Carter Ltd, to provide the world’s first aviation academy.

The International Aviation Academy – Norwich (IAAN) is a brand-new, purpose-built training academy that will create the next generation of aviation professionals, offering training for all areas of aviation. Situated adjacent to Norwich City Airport, facilities include a full-sized operational Boeing-737 aeroplane, with a helicopter arriving in due course; allowing students unrivalled accuracy in aviation simulations, honing their skills on the real thing. 26 degree-level students began training in April and were due to be joined by a further 100 engineering students at the beginning of the new academic year in September.

A. C. Bacon Engineering, of Hingham, near Norwich, were brought on-board to supply and erect more than 300 tonnes of steelwork, plus 8100 square metres of composite panel roof and wall cladding. Measuring 91 metres long x 46 metres wide, the project design involved retaining the existing steel latticed trussed structure from a 1930’s Second World War hangar, but discarded all the cladding and the hangar doors. The roof profile changed from the original ‘saw tooth’ design to a dual pitch profile.

To create the new roof profile a series of new steel rafters span the entire width of the hangar. A series of steel stubs were initially bolted along the length of the top boom of each truss to accept these new rafters. Using one mobile crane positioned alongside the hangar, the new rafters were then lifted into place as complete sections and bolted to the stubs.

The conversion plans divide the hangar into two distinct parts – one half being an ‘Emulation Zone’, housing the aeroplane and workshops, the other half being The

Academy, with learning accommodation arranged around a central atrium.

As well as the new roof steelwork, A. C. Bacon erected several mezzanine floors for classrooms, new elevation steelwork and a one-bay extension to the western gable end. The gable end is designed to be demountable so it can be removed approximately once every five years, when the 737 will be replaced with a newer aircraft.

Aviation Skills Partnership chief executive Simon Witts said he was delighted the academy would put Norwich firmly back at the centre of the UK’s aviation industry. “This is a world first - it’s the first time that the training required for aviation has been brought together in one building. We class Norwich as one of the birthplaces of aviation in the UK. 100 years ago, Norwich was busy building 5,000 aircraft for the First World

War effort. The aviation industry is a viable one in Norfolk and this is a great opportunity to build on that.”

The Academy was officially opened on 5th August 2017 by pilot and TV star Carol Vorderman MBE RAF VR (T) who is honorary ambassador group captain for the Air Cadets.

“To create the new roof profile a series of new steel rafters span the entire width of the hangar. A series of steel stubs were initially bolted along the length of the top boom of each truss to accept these new rafters.”

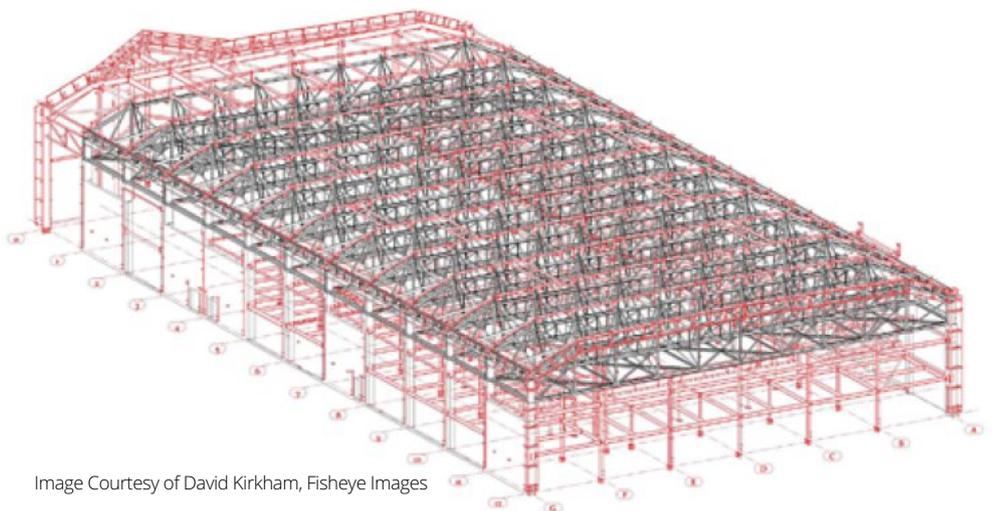


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