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The Premier Rural and Industrial Building Magazine



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A Word from the Editor

Reflecting on Another Year

I can't quite believe I'm writing the Editor's Note for December 2017 – this year really seems to have flown by! I always like to take this edition as a chance to reflect on what the year has brought for RIDBA and its members.

Most recently, we launched the fabulous new RIDBA website! Designed to improve the user journey, the website offers an easy way to search for a member by member type, specialism and area. The website will be continually updated and improved, and if you have any comments or suggestions then please email our Comms Coordinator, Ashleigh Stevens at marketing@ridba.org.uk. You can read more about the website on page 4.

Earlier in the year also saw a breakthrough with non-compliance of CE marking. We were informed of an online auction selling non-CE marked steel framed buildings and after involvement from RIDBA, Trading Standards withdrew the auction. Read more on page 5.

Since the last edition, we are pleased to welcome another new member to RIDBA; Morspan Construction, steel frame manufacturers from Monmouthshire.

We've packed a lot of information into this edition with some fantastic editorial contributions including, B&C's Vision for Occupational Health (page 7), the risk of cyber-attacks from Absolute Insurance (page 12) and an article from Croner on the changes affecting small businesses, such as the General Data Protection Regulation (GDPR), which can be found on page 13.

Thank you to our advertisers who continue to support the RIDBA Journal, and a particular

mention this month for the British Constructional Steelwork Association (BCSA) who have recently launched their training programme to all companies within the industry, not just their members. More information on this can be found on pages 10 and 11.

RIDBA's New Year has already begun and all members would have received an invitation to renew membership, along with an invoice and a link to the online annual survey to check details. This is an important part of your renewal so please make sure to complete the survey.

Looking ahead to 2018, the RIDBA Board has set an ambitious strategy including a campaign on CE marking and re-printing the Farm Buildings Handbook. In addition to that, our flagship event for next year is the Industry Day, taking place at the Jaguar Experience in Castle Bromwich. Details on how to book tickets can be found on page 5.

Don't forget, we want to hear your stories. We welcome news and views from any RIDBA member, so whether you have a new product or have completed a fantastic project, make sure you let us know. If you'd like to get in touch call me on **0844 249 0043** or email

Debbie.Iley@ridba.org.uk.

*Debbie Iley
Trade Association Manager*



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WELCOME TO RIDBA

LEADING THE AGRICULTURAL AND INDUSTRIAL BUILDINGS INDUSTRY

Find a member

RIDBA News

Farm Buildings Handbook – limited stock remaining!

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. The publication is over 200 pages and is available at www.ridba.org.uk for £12 plus £2.25 postage and packing.



Diary Dates

- 22 December – 2 January: The RIDBA office closes for Christmas
- 4-5 January: Oxford Real Farming Conference (Oxford Town Hall)
- 17-18 January: LAMMA 2017 (East of England Showground, Peterborough) – The UK's largest farm machinery, equipment and agricultural services show
- 6-8 March: Ecobuild (ExCel London) – The UK's largest event for specifiers across the built environment
- 7 March: Agri-Expo 2018 (Kent County Showground) – The land-based show for the southern counties, committed to promoting British agriculture
- 15 March: RIDBA AGM & Industry Day (Jaguar Experience, Birmingham)
- 19-24 March: Open Doors 2018 – A unique chance for people to see behind the scenes at major 'live' construction sites

RIDBA's New Website Launched!

RIDBA was thrilled to launch its new website in November. The new design has been created to be more interactive and user friendly. The website is now fully optimised for mobiles and tablets using responsive design, helping you to stay connected whilst on the move.

We have made a number of improvements to help RIDBA members be more accessible to potential clients. The 'Find a Member' section allows users to search by member type, specialism and area to find a RIDBA member. If users already know who they would like to search for then there's the option to quick search by member name. Clearly featured on the homepage, the 'Find a Member' section is RIDBA's focal call to action!

Throughout the website, fantastic photos from our members are featured and have been attributed with their company and

project name, including the homepage, which features large rotating images. We are keen to showcase the excellent work that RIDBA members do, so please share your high-res images with us. This will help us to promote your business and advertise your projects, and it is not too early to consider your projects for the 2019 RIDBA Building Awards!

With a dedicated press and news section, it's even easier to share RIDBA and industry news. We'd love to hear about what you have planned for 2018, so please let us know and we'll post your articles on the website.

If you have any questions and feedback about the website, or have anything that you want to contribute then please contact Ashleigh Stevens at marketing@ridba.org.uk.

We hope you enjoy the new website!
www.ridba.org.uk

Successful Members' Meeting at the Bathurst Estate

Our last members' meeting in October took place at the Bathurst Estate in Cirencester. It was great to have such a good turnout despite the weather!

Members were given a preview of the 2018 RIDBA strategy which will include enhancing member services, offering training opportunities and launching a campaign on CE marking. RIDBA Technical Consultant, Dr Martin Heywood, also gave an important update on the latest technical matters, including CE marking. Members can contact Martin directly at technical@ridba.org.uk and his feature article on ventilation in farm buildings can be found on pages 20-21.

Delegates also enjoyed a tour of the Estate after lunch, which is just short of 17,000 acres, of which 7,000 acres is farmed in hand under three farming companies. Kemble Farms was acquired in 2013 and features a 930-cow dairy, an old biogas plant and arable enterprise.

Cirencester Park Farms (CPF) and Michaelmas Farming (MF) total 5,000 acres and operate as one, with CPF acting as a contractor on MF land. A 6,000 tonne grain store was put up in a central location in 2000 to serve what is essentially an arable operation. The farming operation sits alongside the Estate's letting enterprises featuring about 165 residential properties and 78 commercial lettings, plus leisure uses and 3,000 acres of woodland. Thank you to Edward Allsop, Resident Agent at the Bathurst Estate for hosting RIDBA's meeting.





RIDBA News

RIDBA Launches its First Industry Day!

RIDBA is pleased to launch its very first Industry Day, where members will be able to hear from experts from across the industry, and get a fantastic tour inside the Jaguar factory in Birmingham.

Taking place on Thursday 15 March 2018, the Industry Day will be combined with the RIDBA AGM, where we will welcome a new RIDBA Chairman.

The Industry Day will start from 10:00 with a welcome from current Chairman, James Anthony (M D Anthony), who will run through the formalities of the AGM, followed by a high profile line-up of key industry speakers covering topics that RIDBA members have said they would like to hear more on.

10:00 AGM

10:50 **CPD 'Not all Insulation is the same'**
Paul Grimshaw, Regional Manager,
Kingspan Insulated Panels

11:30 Presentations:

• **How CDM Regulations affect you, Tony Mitchell, HM Principal Inspector of Health and Safety, HSE**

Tony is the Principal Inspector leading the construction team covering the West Midlands, Warwickshire and Worcestershire and has worked in HSE for 24 years. Apart from construction, he has worked with the agriculture, woodworking

and forestry sectors and was formerly the HSE representative on the BSI Farm Buildings Committee.

• **Building Design and Animal Welfare, Jamie Robertson BSc MSc MIAgrE, Livestock Management Systems**

Jamie is an expert in research and development projects examining the link between environment and animal health. He worked at the SAC Centre for Rural Buildings and then the University of Aberdeen. He is the UK representative on the International Commission for Agricultural Engineering working group on animal house environments. He is Director of Livestock Management Systems Ltd and Honorary fellow at the University of Aberdeen, and the University of Edinburgh Royal (Dick) School of Veterinary Studies.

• **Latest Technical News, Dr Martin Heywood, RIDBA Technical Consultant**

Dr Martin Heywood is RIDBA's technical consultant and is a specialist in the structural engineering of agricultural and industrial type steel framed buildings. He is the author of the RIDBA designed, Protocol and Load Tables, and is the Chairman of the BSI committee for agricultural buildings B/549. He also represents the agricultural buildings sector on the BSI 'Actions' and 'Steel

structures' committees. Dr Heywood is currently a Senior Research Fellow at Oxford Brookes University and was previously an Associate Director at the Steel Construction Institute.

13:15 Lunch

14:00 Manufacturing Tour of Jaguar Experience

The Jaguar Manufacturing Tour will give guests a unique opportunity to go behind the scenes of a premium British brand, with a VIP tour of a state-of-the art production facility. Led by expert hosts, guests will experience the pioneering craftsmanship and logistics that go into building Jaguar's luxury vehicles. Guests will also see first-hand how the robot army rivets and bonds in perfect sync, how each vehicle goes from primer to base colour to lacquer, and just how those beautiful rear haunches take shape.

Tickets are just £55 + VAT for RIDBA members. To book your place, visit www.ridba.org.uk/industry-day or email admin@ridba.org.uk.

We are delighted to announce our confirmed sponsors for the event as Kingspan, Marley Eternit and Hadley Group, and we thank them for their support of RIDBA's first Industry Day.

CE Marking – Trading Standards Intervention

After being made aware of a number of steel framed buildings that had been put up for sale on an auction website, RIDBA contacted the auction house advising them of their legal obligations and a few days later the auction was withdrawn following intervention by Trading Standards.

The local Trading Standards office stated: "What this instance highlights is that any business seeking to sell construction products must take account of the requirements to be met before those

products can legally be placed on the market. While Trading Standards Officers can help ensure businesses get it right, CE marking and compliance to agreed industry standards cannot be negotiated away."

This demonstrates what can be done on this issue, so please keep reporting cases of non-compliance to your Local Trading Standards and copy in admin@ridba.org.uk.





RIDBA News

The Importance of Agricultural Learning

The UK has around 50 colleges, universities and other centres of learning that specialise in delivering courses covering agriculture and agricultural engineering/land based topics. These courses could potentially be providing future customers for RIDBA members, as well as educating the next farming generation into the complexities for appropriate farm building design and layout, for both livestock and crops, as well as related facilities for machinery and agricultural by-product storage.

RIDBA is only aware of a limited number of modules within the courses that focus on building design, yet there are around 5000 agricultural buildings erected each year. Of these, it is estimated that three quarters are for livestock housing with the remainder being for crops, machinery or diversification projects.

In recent years we have seen massive investment in agricultural educational establishments. Some is clearly excellent and looks to advance our understanding of best practice. Others may be viewed as 'more of the same'.

It, therefore, seems a wonderful opportunity for those responsible for further education in agriculture to play a proactive part in moving the industry forward towards better design, and to link this to industry bodies such as RIDBA, CLA, Breed Societies, NFU and trade publications to name but a few.

Anecdotally, the majority of agricultural buildings are purchased via one of two decision-making processes: using the farmers trusted supplier who is usually local, or by the cheapest price. It is much less frequent that a decision to purchase is made because of superior functional or aesthetic design. In fact, Planning Authorities who do try to encourage sympathetic visual design are often seen as an obstacle to what the farmer/land owner wants.

It could therefore be argued that UK agriculture's motivation for the most cost-effective solution to their building needs has created not only a landscape of utilitarian buildings, but in many instances a functionality that creates a lifetime cost, particularly in areas of poor ventilation.

A few years ago, RIDBA took a group of members to the Netherlands to see innovative building design. It was interesting to see that most cattle sheds had insulated roofs, that coloured sheeting is used more boldly, and roof pitches are steeper. The use of natural light and automated ventilation is extensive. They even have buildings where the

roofs fold back in good weather and trees are grown inside the building to simulate the natural habit of the livestock

In recent years we have seen a greater awareness of animal welfare. This is not so much about the five freedoms, it is about the realisation that animals have needs, and when these needs are satisfied, the animal's health, and therefore performance, is significantly improved. With probably only one exception we continue to design animal housing in 'rows', because it is the most cost-effective design.

All our domesticated animals are bred from animals that were predicated in the wild. So, just as the most pampered family cat still hunts, our livestock still use every opportunity to rest under trees or lay with 'lookouts' protecting the group from perceived threats.

Post-war agriculture has been progressively moving toward industrial scale enterprises and this trend shows no signs of slowing. UK and global population growth forecasts must ensure a bright future for UK agriculture if we embrace new technologies and strive for best, rather than the cheapest practices.

It is in these areas that RIDBA is seeking closer collaboration with the agricultural educational establishments. If you would like to talk to us about working with RIDBA please contact admin@ridba.org.uk or call **0844 249 0043**.



Innovative dairy cow housing by Dutch company ID Agro, complete with trees to create a natural environment, and a porous rubber floor that is soft, free draining and where a robot collects the manure.



Industry News



Shining a Light on Hot Dip Galvanizing

Galvanizing companies the length and breadth of the UK and Ireland took part in the first Industry Open Day, shining a light on the impressive alchemy that is hot dip galvanizing. 34 sites ranging from Elgin in the far North, Devon in the South West and Galway in Ireland, held an open door event on 12th September.

Hot dip galvanizing is a highly controlled factory led process and anything from small nuts and bolts, up to large structural sections can be galvanized. Whether it be for agriculture, horticulture, transport, construction, or the energy sectors, both renewables and oil and gas – these are products for all spheres of life, even your garden gate.

The coordinated site visits in September were aimed at giving specifiers and fabricators a valuable opportunity to learn how to extend and improve their use of galvanizing as well as:

- Understanding the hot dip galvanizing process
- Making more informed corrosion protection decisions
- Designing better structures.

Rob Hearne, Chartered Consultant Architect and CPD specialist, was approached by RIBA to assess the initiative. He says: "Galvanizing is a ubiquitous process that many take for granted without truly getting to grips with the detail. This open day has shown that the galvanizing industry across the board wants specifiers and contractors to move beyond the text book, and to design, develop and equally importantly, assess results, from a position of greater knowledge."

The Industry Open Day was organised by the Galvanizers Association, who thought the day was an excellent excuse to get hands-on experience from the people who do the job and have seen different structures coming out of their tanks.

"A very informative tour packed with experience of the plant and product." John Eynon, Kelvin Power Consultants

"Really enjoyed it, people were friendly and very knowledgeable." Laura Dombrovská, AECOM

www.galvanizing.org.uk

GALVANIZERS ASSOCIATION

B&CE's Vision for Occupational Health in Construction

Margaret Grahamslaw, B&CE's Head of Occupational Health and Wellbeing, tells RIDBA about their vision for occupational health in construction.

B&CE is a not-for-profit organisation rooted in the construction industry, and continues to create simple financial products and benefits for working people. We're now looking to apply that experience to occupational health.

Since the Health and Safety at Work Act 1974, the construction industry has made great strides in addressing safety, but its track record in giving health equal importance has been poor. Statistics around musculoskeletal disorders, skin and respiratory conditions continue to point to worrying levels of debilitating illness and disease. We believe it's time to treat health like safety.

Over the past year, the Health in Construction Leadership Group has really got the industry to start talking about health, and a groundswell of change is building.

B&CE acquired Constructing Better Health (CBH) from the Construction Skills Certification Scheme in April 2016, but the system has fallen short of the industry's needs. The CBH model is complex, providing 'standards' for every conceivable job role, with a supporting system that is not user-friendly.

Our vision is to create a scheme whereby for the first time, individual

workers own their digital, portable health record. They will be able to take this digital record from job to job and site to site, providing clear evidence that they've had appropriate health surveillance and been assessed as 'fit for work'.

Our first step has been the creation of a framework that will underpin the new scheme. This framework has been developed with an Occupational Health Steering Group, made up of employers, federations and regulatory representatives. It's a simple three-year plan that clarifies the complex health and safety legislation that employers need to comply with.

Companies will have an easily-repeatable process for assessing workers' health, giving them confidence that it is being appropriately monitored as they move from job to job. Vitally, it will enable early identification of changes in health, helping to keep people in the industry longer.

What happens next? We've consulted on the framework, strengthened our occupational health team and are starting to work on building the technology that will bring our vision to life. This is where the hard work really starts!

To find out more and to sign up to our newsletter, go to www.bandce.co.uk/occupational-health

B&CE



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Industry News

Know the Rules when it comes to Building on a Smallholding

Whether a smallholding has been recently purchased or owned for some time, building developments may be at the forefront of plans. Laura Bowyer gets to grips with planning rules in England with Herefordshire-based chartered surveyor and planning consultant, James Spreckley.

Q: If you have a small parcel of land - what are you allowed to build without planning permission?

If you have more than 5 hectares of land there are fairly wide-ranging Permitted Development rights, subject to detailed criteria.

These allow for the erection of an agricultural building, but specifically not a dwelling, of up to 465 square metres. All such buildings must be more than 25 metres from a motorway or other classified road, and any livestock building must be more than 400 metres from any dwelling - other than that of the applicant. These rights are subject to a requirement that the applicant must apply to the local planning authority for a determination as to whether prior approval of the authority is required as to the siting, design and external appearance of the building. This application must be accompanied by a written description of the proposed development and a site plan.

If you have less than 5 hectares, but more than 0.4 hectares, then the Permitted Development rights are much more restrictive. You can extend an existing agricultural building by up to 10 per cent of its cubic content, and you can alter an existing agricultural building, but

not if this alters its external appearance, but in both cases not if the distance restrictions described above apply.

Q: How long does a planning application take to process?

An application for Prior Approval must be determined within 56 days. If the local planning authority fail to do so, then Permitted Development rights apply.

Q: Are there any common misunderstandings around planning permission made by people owning agricultural property?

There is a common misconception that agricultural buildings or the land they occupy would constitute brownfield land, and that this would in some way enable new residential development. This is not the case.

Q: Would you be able to advise any 'temporary buildings' which could be used at busy times on-farm? E.g. lambing time.

'Temporary buildings' is a minefield. Generally speaking, if the building is physically attached to the ground, has a degree of permanence, or its construction constitutes a building operation (i.e. something usually undertaken by a builder), then strictly speaking it will require planning permission. There are however a number of temporary field shelter manufacturers who provide either pre-fabricated, or kit form shelters on skids that they consider do not require planning permission.

Article sourced from www.fginsight.com

Farm Security: Ways to Keep your Machinery Safe

Quads are at the top of rural thieves' shopping list because of their value, portability and easy resale, NFU Mutual's rural affairs specialist Tim Price has warned.

The latest NFU Mutual theft claim figures show theft is rising sharply – up 20% in the first half of 2017 – meaning it is now more important than ever to improve security.

Whether you run a smallholding, a farm, a rural business, or live in the countryside, the same factors need to be taken into account to assess the risks and decide the most effective and practical solutions.

NFU Mutual Farm Machinery Security Checklist:

- Remove keys and secure cars, tractors, and other vehicles when unattended
- Keep gates to farm yards closed whenever possible
- Fit CESAR marking systems to tractors, quads and other self-propelled farm vehicles

- Consider fitting immobilizers to tractors
- Use security lighting in yards and drives
- Have the Vehicle Identification Number etched on vehicle windows
- Consider fitting immobilisers and tracking devices on tractors and quads
- Physically secure ATVs using suitable locking devices or heavy duty security chain and padlocks
- Record machinery serial numbers
- Lock up tools, equipment and vehicles out of sight
- When buying a quad, do due diligence checks yourself
- Ask neighbours to report suspicious activity



Industry News

A New Apprenticeship Model For Structural Steelwork

Research carried out by The British Constructional Steelwork Association (BCSA) shows that many companies in the structural steelwork sector cannot gain access to apprenticeship training for core specialist roles, limiting the take-up of apprentices in small and medium sized companies.

In response, BCSA has launched a new apprenticeship training programme that allows companies in the structural steelwork supply chain, of all sizes and based in any location, to take on and train apprentices.

The CRAFT apprenticeships are based on the traditional methods of learning through workplace coaching and mentoring. The training has been developed by breaking down each role into separate elements, creating individual modules for each course. During and after completion of the modules, the apprentice is expected to gain further experience and workplace training.

Lantra Awards Corporate Provider

BCSA has achieved Lantra Corporate Training Provider Status for its CRAFT apprenticeships, meaning that CRAFT apprenticeships are delivered under the umbrella of the awarding body.

The CRAFT Process

Detailed written modules have been developed that describe and give pictorial evidence of the equipment used, or tools required, and how they are safely used. The apprentice commences each module by reading the appropriate materials, and referring back to them where necessary. Health & Safety is always the first module.

Workplace coaches are identified by the employer. They should be experienced tradespeople demonstrating good working practices to carry out the role. They will ensure the apprentice understands the tasks in each module, supervising the apprentice as they undertake these activities.

The employer also identifies a validator who has the role of coordinating the apprentice's placement with different coaches for the training modules. The validators are accepted by Lantra based on their experience, knowledge and qualifications.

The validator assesses the knowledge and competence of the apprentice on completion of each module, including reviewing the evidence of their training, which is done against a standard assessment plan.

Available Apprenticeships

BCSA CRAFT SUMMARY



| CRAFT | Modules | Duration | Experienced Worker Assessment |
|---------------------------|---------|-----------|-------------------------------|
| Welder Fabricator | 12 | Two years | Available |
| Metal Decking Installer | 8 | 18 months | Available |
| Structural Steel Detailer | 10 | Two years | NA |
| Surface Treatment | 7 | 18 months | NA |

The Outcomes

Since the launch of CRAFT, 63 apprentices have been registered by BCSA member companies. Of these, 32 have completed and are employed in a permanent capacity with the company they trained with. Some companies have chosen to use CRAFT as supplementary training for apprentices that are enrolled in local colleges, and for upskilling existing employees.

More Information

For information about the training outcomes and to sign up to CRAFT training go to <http://bcса.skills-plus.net/>. For further information email training@steelconstruction.org

Peter Walker, BCSA Director of Health, Safety & Training





CRAFT

Industry approved training for structural steelwork

Now available: An in-house apprenticeship training programme that allows companies in the structural steelwork supply chain to take on and train apprentices

CRAFT apprenticeship training courses which meet the competency standards in the National Structural Steelwork Specification are available for:

- Fabricator Welder
- Structural Steel Detailer
- Metal Decking Installer
- Surface Treatment

For information about the training outcomes and to sign up to CRAFT training go to www.bcsa.skills-plus.net

For further information email training@steelconstruction.org

The British Constructional Steelwork Association Ltd

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Site Dangers: The Unseen Ones

Imagine the scenario, you are contracted to build a large shed/milk producing unit on a farm. You are more than familiar with the inherent risks that are associated with every construction project, in fact you have probably built these into your own health and safety manuals and risk management procedures. You are fully versed on the hazards involved in working at height and being in close proximity to farm animals, and you make sure your workers are just as knowledgeable. Your client is impressed with your professionalism and obvious expertise. Everything seems to be going to plan and then all of a sudden the project is jeopardised.

Work has stopped and you are unlikely to be able to finish it. Why? Due to a range of factors that are not immediately obvious, those very same factors that you know you should take control of, but for different reasons you haven't gotten around to it. So what are these unseen dangers, these factors that could jeopardise an otherwise seamless project?

There are actually quite a few but we will cover the most topical right now.



Cyber Risk

It's easy to assume that a typical construction company or subcontractor is not at risk of a cyber-attack and that only large corporates are targeted. This is definitely not the case. In fact, small businesses are the prime targets for cyber-attacks with an estimated 60% of UK SME's having experienced at least one attack this year. Should you fall victim to an attack, what impact could it have?

- Your IT systems could be infected with Ransomware – rendering them useless unless a fee is paid. This is the very same issue that crippled the NHS recently.
- Your bank accounts could be accessed and cash taken, meaning staff will not get paid.
- Personal data of your employees could be compromised with potential for identify theft.

These are just some of the impacts a cyber-attack could have on your business. It's also worth stating that over 60% of SME businesses that are attacked do not recover and ultimately cease trading.

The good news is that we can help you avoid this by providing you with the right type of cyber liability cover. At Absolute Insurance Brokers, we take pride in providing an exceptional service to all of our clients and we have established a reputation of professionalism, expertise and deep knowledge of the construction industry. Cyber cover is not overly expensive and we are usually able to arrange this for you with one simple phone call so please do not hesitate to speak to us today – after all, can you really afford not to have this protection in place?

Contact us: **020 8915 1022**
www.absoluteinsurancebrokers.co.uk



Industry News

Changes and Developments Affecting Small Businesses

Croner,* trusted partner of Build UK and RIDBA, lists the main changes and developments affecting small businesses.

As a RIDBA member, you have access to free HR and employment law advice on the below topics and more. Simply call **0844 561 8133** and quote scheme number **80274**.

Employment Tribunal fees have been removed

In July 2017, the Supreme Court ruled that tribunal fees are unlawful and a barrier to justice, abolishing them with immediate effect. As a result, if an employee feels that you, as an employer, have treated them unfairly, there is nothing to stop them making a claim, which could have a devastating effect on your business. Act now to protect yourself and your organisation.

115 employers have failed to pay just one worker the National Minimum Wage

In their latest 'name and shame' campaign, the government have listed 230 employers who have failed to pay workers the National Minimum Wage. In total, 13,000 employees are set to receive compensation of a record £2m for their loss of pay. It was revealed that 115 employers have been 'named and shamed' for failing to pay just one worker the minimum wage, highlighting the extent of the government's investigations, and reiterating that any underpayment, regardless of its size, can attract significant attention.

Modern fire safety legislation applies to most premises, covering nearly all types of building, structure and open space

In the aftermath of truly tragic events, calls have been made for all employers to ascertain the safety of their working premises and in turn, employees. Arranging a workplace risk assessment could save

on cost and reduce the risk of accidents. Every organisation should consider Health and Safety a priority, to ensure that they avoid illness and injury and remain an efficient, profitable business.

Reasons for small employers to publish their gender pay findings

For organisations with over 250 employees, gender pay reporting is a legal requirement. For smaller workforces, there are still many reasons employers are choosing to publish their gender pay gaps prior to April 2018. With gender pay now attracting more attention, calculating and publishing your pay gap will assure employees of your ethical and conscientious approach.

Implementation of the General Data Protection Regulation (GDPR) in May 2018

GDPR is due to come into force on 25th May 2018, and the new regulations will include important changes to the rules governing subject access requests. The new regulations are set to replace the UK Data Protection Act 1998 (DPA), and will apply to processing carried out by organisations operating within the EU. It also applies to organisations outside the EU that offer goods or services to individuals in the EU. Under the new regulations, data handling and the processes which must be obeyed are likely to change for many organisations.

*Croner has been advising business professionals since 1941, providing expert HR, Health & Safety, and business support to help members plan ahead, improve efficiency, and avoid risk.

Visit www.croner.co.uk or call **0844 561 8133** for advice on any of the above.



Your Helplines and Services Available through RIDBA

Contractual & Legal (England & Wales): Wedlake Bell - One hour's free advice per year - 0844 249 9871

Contractual & Legal (Scotland): Anderson Strathern - 30 minutes' free advice per case - 0844 249 9872

Employment: Croner - Free advice on employment issues - 0844 249 9873

Health & Safety: Safety Services - Free advice on health and safety - 0844 249 9874

Tax & Business: RSM - Free advice on tax and business - 0844 249 9875

Credit Checks: Credit Serve - Free, unlimited credit checks for UK or ROI based companies - Email creditcheck@builduk.org with company name and reg. number

Construction Health & Safety Manual / Construction

Environmental Manual: 30% off - Use promo code BUILDUK

DBS Checks: Security Watchdog - 0844 249 1004 ask for the 'Build UK Umbrella Team'

R&D Tax Credit Claims: Rift Group - 30 minutes free advice & 5% off for members to claim tax relief on money spent on research & development - 01233 653008 quote Build UK



Build UK News



Consultation on Cash Retention

Government published a review in late October on cash retention on construction contracts, along with research carried out by Pye Tait Consulting. At the same time, the Government also published a consultation on the effectiveness of the 2011 changes to the Construction Act.

Retention payments in the construction industry

The purpose of the 'retention payments in the construction industry' consultation is to seek information on the practice of cash retention under construction contracts and gather views on the findings of the supporting documentation.

The consultation is relevant to any party to a commercial construction contract, as defined by the construction contracts legislation. It is also relevant to adjudicators, arbitrators and lawyers. While the consultation concerns construction specific legislation, it may also be relevant for those with an interest in prompt payment and to insolvency practitioners. The legislation does not apply to residential occupiers.

Review of the 2011 changes to Part 2 of the Housing Grants, Construction and Regeneration Act 1996

As part of its commitment to better regulation, the Government said it will undertake a non-statutory Post Implementation Review of the 2011 changes to the Housing Grants, Construction and Regeneration Act 1996 (the 'Construction Act').

To help inform that review, the consultation seeks information to help establish how effective those changes have been in securing their objectives. The consultation also asks some more general questions on the existing construction payment and adjudication framework, and a set of questions on the affordability of adjudication, its misuse and its continuing relevance.

Build UK is currently setting out a consultation process to gather the views of members. To register your interest in either consultation, please contact Laura.Smith@builduk.org or call 0844 249 5351. Both consultations close on the 19 January 2018.

<https://www.gov.uk/government/consultations/retention-payments-in-the-construction-industry>

Tax Guidance for RIDBA Members

Members can access the Construction Industry Joint Taxation Committee's (JTC) monthly tax guidance newsletter as a key benefit of RIDBA membership through Build UK.

Members often register the difficulties they face in complying with changes to taxation rules and regulations, and can now access the JTC newsletter which is publicised monthly on Newsline and includes guidance on challenging issues and direct responses to taxation queries.

November's edition included:

- Preparing for Making Tax Digital (MTD which becomes compulsory for all VAT registered businesses from April 2019)
- HMRC have advised that from 13 January 2018, they will no longer accept payments from personal credit cards due to a change in EU law
- From 1 November 2017, any returns not in the correct iXBRL format for Corporation Tax returns, will be rejected unless special exceptions or dispensations apply.

www.builduk-newsline.org.uk

Get Involved with Open Doors 2018



Open Doors 2018 takes place from **Monday 19 – Saturday 24 March 2018**. Open Doors offers members of the public, potential industry colleagues and anybody with an interest in construction a unique chance to see behind the scenes at major live construction sites to inspire and show what the industry is capable of.

Discover how the buildings and structures in your community are constructed and find out about the diverse range of skills and professions needed on site.

The most recent Open Doors event saw over 3,000 bookings across more than 130 construction sites in England, Scotland and Wales.

It would be fantastic to have more RIDBA members involved this year, so start thinking of potential sites! Upload as many of your sites as possible before public bookings open on Monday 8 January.

Contact Debbie.Iley@ridba.org.uk for more information about registering one of your sites or visiting one.

<http://opendoors.construction/>

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. 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

Adeilad 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

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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

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mickg@balsham.uk.com
www.balsham.uk.com

Bowie Lockwood Structures Ltd

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0845 2572 343
sales@bowielockwood.co.uk
www.bowielockwood.co.uk

C.E. Davidson Ltd

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01379 388 077
charlie@cedavidson.co.uk

Chris Hodgson Engineering Ltd

Seven Acres, Holcombe, Chulmleigh, 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

Unit 5, Westwood Ind Est, Pontrilas, Hereford, HR2 0EL
0198 1240682
info@collinsdb.co.uk
www.collinsdb.co.uk

Core Steel Ltd

Unit J, Three Mills Trading Estate, Old School Lane, Hereford, HR1 1EX
01273 815 932
info@danddconstruction.co.uk
www.danddconstruction.co.uk

Culm Valley Farm & Industrial Buildings Ltd

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

Cumbria Steel Fabrications Ltd

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www.csfab.co.uk

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D6ash@aol.com

D Jones Welding

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djoneswelding@hotmail.co.uk

DeVille and Lear Ltd

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info@devilleandlear.co.uk
www.devilleandlear.co.uk

Dunn (Canadian - UK) Ltd

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dunnstorm650@aol.com
www.dunncanadian.co.uk

Eagle Structural Ltd

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www.eagle-structural.co.uk

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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

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www.yelland-construction.co.uk

Farmplus Constructions Ltd

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Fowler & Gilbert Ltd

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

FP McCann Ltd

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GLT & Son Roofing Services Ltd

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Harry West (Prees)

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Knapp Farm Buildings
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L Harrison & Co. (Eastoft) Ltd
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Lancashire Steel Buildings
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Gloucestershire, GL56 0XW
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www.rose-engineering.co.uk

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www.molevalleyfarmers.com

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Llancayo Farm, Usk, Monmouthshire, NP15 1HY
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Norman & Gray Ltd
65 Kingfisher, Pickering, Yorkshire, YO18 8TA
01751 472 812
phil@pjnorman.co.uk
www.pjnorman.co.uk

Northern Structures Ltd
Amble Industrial Estate, Amble, Northumberland,
NE65 0PE
01665 710 746
anthony.nelson@northernstructures.co.uk
www.northernstructures.co.uk

P McKenna's Agricultural Service Ltd
Esh Winning Industrial Estate, West Terrace,
Esh Winning, Durham, DH7 9PT
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pmckenna_agri_servis@hotmail.com

Paul Huxley Construction Ltd
Unit 25 Rednal Industrial Estate, West Felton,
Oswestry, Shropshire, SY11 4HS
07432 637432
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
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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

RJ Doak & Sons Ltd
Northfaulds, Lanark, Lanarkshire, ML11 7SA
01555 661 425
rjdoakltd@gmail.com
www.doak.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
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RM Gibbons Ltd
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Robinson Structures Ltd
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Robinsons Scotland Ltd
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S. Schofield Steel Fabrications Ltd
Cookson's Yard Beverley, Carr Lane, Hambleton,
Lancashire, FY6 9BB
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sales@scorpionbuildings.co.uk
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SDM Fabrication Ltd
Foundry Way, March, Cambridgeshire, PE15 0WR
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richard@sdmLtd.co.uk
www.sdmstructures.com

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Unit 3, Maesbury Mill, Industrial Park, Oswestry,
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www.severn-fabrications.co.uk

Shufflebottom Ltd
Cross Hands Business Park, Cross Hands, Llanelli,
Carmarthenshire, SA14 6RE
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Smith Contracts Scotland Ltd
Lawverside Farm, Mauchline, Ayrshire, KA5 6EU
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enquiries@smithcontractsscotland.com
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South West Steel Construction Ltd
Holsworthy Industrial Estate, Holsworthy,
Devon, EX22 6ER
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www.southweststeelconstruction.co.uk

Steel Fabricators (Wales) Ltd
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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

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Staffordshire, DE13 9PA
01283 563 756
craig@tilkeengineering.co.uk
www.tilkeengineering.co.uk

Timberwood Systems Ltd

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

Timmins Engineering and Construction Ltd

Innovation Works, Caenby Hall Business Park,
Caenby Corner, Market Rasen, Lincolnshire,
LN8 2BU
01673 878800
info@timminsagricultural.co.uk
www.timminsagricultural.co.uk

Titan Steel Ltd

Kirkton, Kinellar, Aberdeen, AB21 0SB
01224 791 178
info@titansteel.co.uk
www.titansteel.co.uk

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
01404 459 09
info@wephillipsandsons.co.uk
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W H Ricketts & Sons

Forge Works, Ffynnon Gynydd, Glasbury on Wye,
Powys, HR3 5LX
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info@whrickettsandsons.co.uk

Webcox Engineering Ltd

Harris Rd, Calne, Wiltshire, SN11 9PT
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sales@webcox.co.uk

Wilson Construction Ltd

East Stobswood Farm Cottages, Widdrington,
Morpeth, Northumberland, NE61 3AY
01670 791 404
wilsonconstruction@hotmail.co.uk
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Worman Construction Ltd

Beachley House, Beach Road, St. Brides, Newport,
Gwent, NP10 8SH
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www.worman-construction.co.uk

Wrightway Structural Steels Ltd

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Yield Engineering Ltd

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Yorkshire Steel Buildings (Holdings) Ltd

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Yorkshire, DL8 1AU
01677 423 324
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Supplier Members

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

3DCAD4U Ltd

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Lancashire, FY5 1DH
07512 104890
john@3dcad4u.com
www.steel-connections.co.uk

A Steadman & Son

Warnell, Welton, Carlisle Cumbria,
CA5 7HH
01697 478 277
alanq@steadmans.co.uk
www.steadmans.co.uk

Acorus Rural Property Services Ltd

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AJN Steelstock Ltd

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sales@ajnsteelstock.co.uk
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Albion Sections Ltd

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01215 531 877
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Briarwood Products Ltd

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Image Courtesy of Glendale Engineering - Lilburn Estates

Technical Update

Designing the Internal Environment for Livestock Buildings

Introduction

It is essential that animal housing provides a comfortable, clean and dry environment free from hazards and health risks. The design of the building and specification of the materials used to construct it play a major role in achieving these aims and, if done properly, can lead to healthier, happier and more productive animals. This article considers some of the issues that should be addressed by building designers and farmers in order to improve the well-being of their livestock.

Ventilation

The provision of adequate ventilation is arguably the most important consideration when designing a new building for animal housing. A distinction needs to be made between a well ventilated building and a draughty one. Nobody, human or animal, wants to live in a draughty building that lets in cold air whenever the wind blows, causing discomfort and potentially ill health. On the other hand, a regular supply of fresh air is essential to replenish oxygen, remove exhaled carbon dioxide and control temperature and humidity. Correct ventilation will reduce relative humidity and the risk of respiratory infections, eliminate stagnant air and avoid unwanted draughts.

Factors to consider when designing a building for ventilation include:

- The dimensions of the building and layout of any internal partitions
- The proposed occupancy of the building
- Factors affecting the local wind speed including building location, altitude, shelter and proximity of other buildings.

Even at fairly modest wind speeds, the ventilation of a typical livestock building will be governed by the "wind effect", meaning

that sufficient fresh air will be supplied naturally by the wind. A building containing livestock must, however, be adequately ventilated even on the calmest of days, relying on what is known as the "stack effect" (warm air rising replaced by cooler air). The adequacy of stack effect ventilation for a given building will depend on the location and size of the inlets (normally below eaves height), the location and size of the outlet vents (normally at the ridge) and the heat generated by the livestock. A detailed design procedure for calculating stack effect ventilation is given in the RIDBA Farm Buildings Handbook.

It is worth noting that the effectiveness of the ventilation does not simply relate to the combined area of the openings; the location is equally important. Leaving large openings in the cladding will not guarantee the free movement of air within the building and could be detrimental in this respect. It is entirely feasible to have a poorly ventilated open-sided building, as strange as this sounds! Furthermore, placing the openings in the wrong place (e.g. too close to the animals) will result in unwanted and unhealthy draughts.

Technical

Many specialist products are available, such as covered ridge vents that keep the rain out, while allowing warm stale air to escape. Some cladding manufacturers have also produced their own literature on this subject.

Condensation

Condensation occurs on a surface when the temperature falls below the dew point for a given relative humidity. Condensation does not cause high humidity, but may be a symptom of it if the temperature is low enough. Although condensation can be a nuisance if it results in dripping water, and

can in some circumstances lead to corrosion of steel fasteners and fixings, it is high humidity (i.e. moisture in the air) that causes health problems in livestock. The focus for the building designer should, therefore, be on reducing humidity through good ventilation rather than hiding the problem through the use of absorbent materials.

Where condensation is unavoidable, the building designer needs to think carefully about how best to remove the water. Some cladding manufacturers supply roof cladding with an absorbent polyester fleece on the inside to soak up the water. Such products work well, but remember that the water has to go somewhere. In a well ventilated building, it is likely to evaporate back into the atmosphere as the fleece dries out and hopefully exit the building via the ridge vents. If, however, the building is poorly ventilated the fleece will become saturated and start discharging its water onto the animals below. The same is true with fibre cement cladding. Yes it absorbs water, but it isn't an infinite reservoir.

The RIDBA Farm Buildings Handbook contains advice on condensation control, which will suffice for most applications. If, however, a building is particularly challenging in this respect, the designer should engage the services of a specialist building physics consultant to undertake a detailed condensation analysis and advise on appropriate mitigation measures.

Lighting

Buildings used for housing livestock should have adequate levels of lighting, provided by natural or artificial means, or a combination of the two. Natural daylight is normally provided by in-plane rooflights, often arranged in bands along the roof. Since rooflights allow direct sunlight to enter the building, there is a risk of overheating in summer if the percentage area of rooflights

is too great. Careful consideration needs to be given to the actual area required for a particular application and the best location to maximise daylight while minimising the overheating risk. It may be possible to use a smaller area of rooflights, and therefore reduce the overheating risk, by specifying cladding with a highly reflective coating on the inside. Specialist manufacturers' literature is available on this topic. Of course, maximising the amount of daylight might not be in the best interests of the animals. The optimum level of light is very much dependent on the use of the building, so building designers should not assume that more is better. The same is of course true for artificial lighting.

Surface finishes

Surface finishes should be smooth and without sharp projections to avoid injury to animals or people. This requires good detailing in addition to the correct specification of materials. Walls should have a washable inner surface that can

easily be hosed down when necessary. Metal cladding systems are good in this respect, provided that they are correctly detailed. Beware of using porous surfaces in locations where dirt may easily become trapped, as this is a potential health hazard. Finally, floors must be non-slip and have suitable drainage. If there is a risk of standing water, slabs should be constructed with a slight fall to ensure run-off.

Conclusions

With careful consideration at the design stage, it is possible to create a healthy and pleasant environment, with adequate fresh air, and lighting, humidity and temperature levels that are comfortable for the animals. Good ventilation and careful specification of materials are the most important factors. Materials that absorb water may appear to solve any condensation or humidity problems, but beware of

turning the roof into a giant sponge. There is no substitute for well-designed ventilation.

Dr Martin Heywood
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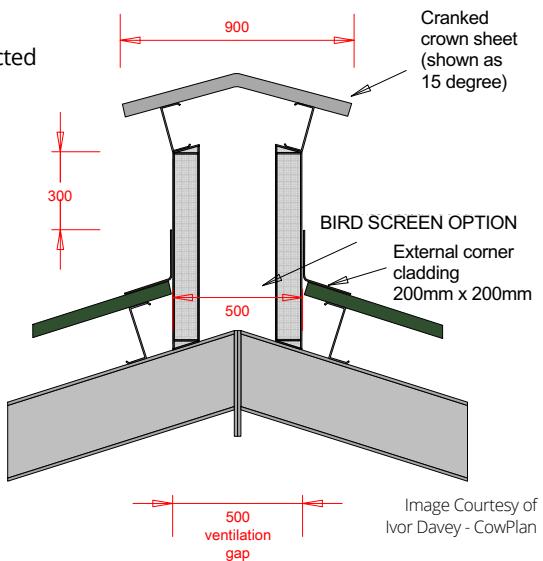


Image Courtesy of Ivor Davey - CowPlan



Branch Update – Wessex

Wessex Clipper Tea visit

The Wessex branch of RIDBA were hosts with Kallo Foods Ltd for a presentation on the problems and benefits of a brownfield development, followed by a visit to a project – so that the structural implications and the liaison with the existing business could be fully appreciated.

Clipper Tea was established by Mike & Lorraine Bream in 1984, becoming the UK's first Fairtrade tea company in 1994 and marketing the first green tea in UK supermarkets in 1996. In 2008, the company was sold and the Clipper brand was further developed with coffee, hot chocolate and herbal infusions joining the range of teas. In 2012, the business was purchased by the present owners Wessanen, who have plans to expand the production of the specialist tea range to cover their requirements in an ever-expanding European and International market. Wessanen operate Clipper through their UK subsidiary, Kallo Foods.

Wessanen have decided that Clipper Tea will be the production facility for all tea sold by them worldwide, and have subsequently embarked on a programme of investment in the factory complex at Beaminster in Dorset. Their plans to develop the site of a previously demolished set of buildings, constructing a new production facility of: 4100 sq. m. comprising offices and staff facilities covering 1420 sq. m. on 3 floors; blending facilities covering 450 sq. m. on 2 floors; and warehousing, goods in, goods out and despatch covering 2230 sq. m on

1 floor in a small market town, with a town centre containing over 200 listed buildings, was an ambitious step. Further obstacles to an easy progression through the planning process involved redeveloping 6 smaller existing commercial buildings for housing, in direct contravention of local planning policy. Providing water flow from the new building roof, constructing over a watercourse and near to existing housing, all made obtaining planning consent more complex.

The speakers at the morning presentation were, Tony Buckton, Site Manager for Clipper Tea; Simon Ludgate, former Head of Planning at West Dorset District Council; Phil Holdcroft, Planning Consultant responsible for the planning application; Philip Hardwill, Director of P. H. Hardwill, who are the main contractors for the project.

At the morning seminar, the speakers outlined the reasons that the company had the desire for this building on this site; the requirements that the local authority had for a planning application of this size and complexity; the steps taken by the design team to ensure that the requirements of the planners were met; the design input of the contractor and their input into the development of the scheme, and the problems and benefits of developing a scheme of this nature on a site restricted by existing use and occupation.

Following the presentation, a tour was made of the site, giving members the chance to view the construction of the building, the foundation design, the design of the steel frame, mezzanine and office steelwork. The offer to view the tea blending and the tea bagging processes in the existing warehouse and factory buildings was also made by Clipper.

The construction process on this brownfield site has taken the following steps to construct a large facility on a tight site in a small market town:

1. The steel frame spanning 43m was constructed in 3 sections allowing transport along B roads from workshops to the site.
2. The foundations were designed using a combination of traditional pad and strip, with piles to cope with ground conditions, and to prevent construction damage to the culvert. The use of piles, with shallow steel and reinforced concrete beams to span the culvert has meant that the floor slab has been retained at the same level as the existing factory, only 450mm above the top of the existing culvert roof.
3. All demolished material has been recycled; existing concrete yards, floors and foundations, excavated rock, demolished walls, roof tiles and foundations have all been crushed on the site, or at a specially developed site within one mile of the site, to provide hardcore for the new facility. Existing hardcore and tarmacadam cleared has all been re-used; removing the need to import in over 4500 tonnes of stone to the site.
4. Clean water runoff has been attenuated, reducing the rate of discharge into the streams which flow into the town of Beaminster, from 27.38 litres per second to 16.74 litres per second, by the introduction of a 112,770 litre attenuation tank.
5. Local residents have been kept informed of vehicle movements and hours of operation to prevent unnecessary disturbance of neighbours of the site.
6. The contractors have benefitted from having a hard surface on which to work with existing water and sewerage, electricity, gas, and telecommunication services on site.



CPD Workshops and Webinars

Fire Performance of Insulated Panel and Façade Systems

Kingspan Insulated Panels is running a series of CPD workshops and webinars, focusing on the fire testing and real-life fire performance of external envelope systems. These will cover the following learning objectives:

- The difference between metal faced insulated panel systems and site-assembled built-up systems including rainscreen.
- Fire testing of insulated panels for life safety and asset protection.
- Property insurance requirements and relevant Building Regulation requirements across the UK and Ireland.
- The behaviours of insulated panels in real fire scenarios.

CPD Webinar

Fire Performance of Insulated Panel and Façade systems

Date

Thursday 7th December 2017

Thursday 14th December 2017

Wednesday 20th December 2017

Time

13:00 - 14:00

13:00 - 14:00

13:00 - 14:00

Numbers will be limited, so act now to secure your place. To register for the above event, book a face-to-face workshop, or for more information including dates of further webinars, visit:

www.kingspanpanels.co.uk/firesafety

or contact us by phone or email on:

Tel: +44 (0) 1352 716100

Email: fireinfo@kingspanpanels.com





Member News

New Lease of Life for Salisbury Roof

Lightweight GRP over-roofing was the ideal solution for refurbishment of this fibre cement roof in Salisbury.

The roof at the Harnham Trading Estate was starting to fail, causing water ingress. The rooflights were also becoming discoloured, reducing light transmission into the building. Industrial Building Solutions of Wimborne, Dorset, installed approximately 500m² of OP24E over-roofing in asbestos grey to suit the existing Cape Monad asbestos fibre cement roofing sheets, with 25mm thick Profix spacers. These allow a cavity into which insulation material was laid to upgrade the thermal specification of the roof.

The old rooflights covering an area of approximately 50m² were also replaced during the project. This created a big impact on light levels within the building, bringing an improved working environment and reduced energy consumption for the building occupant, New Garage (Harnham) Limited.

Andy Green, Director of Industrial Building Solutions, said: "We have used Filon's over-roofing system for many projects over the years. It's simple to install, with minimal disruption, because the old roof doesn't need to be removed – and because it's so light, no additional reinforcement is needed. As the existing roof dries out, the result is an overall reduction in weight - so it's a win-win situation."

www.filon.co.uk

Stay Safe on Site this Winter

'By Christmas' is probably the most popular deadline contractors face, never helped by the age-old problem of British weather, which unhelpfully tends to become more unpredictable as nights draw in.

With less light to work with and deadlines to meet, Rebecca Ball, Marley Eternit Marketing Manager, reminds contractors to keep their staff and customers safe. "Do ensure you and your staff have enough light to do the job properly, and that farm workers and observers remain out of designated work zones. Ensure mirrors, cameras and windows are cleaned regularly on machinery to allow staff good visibility when manoeuvring, and remember that not all farm staff will be wearing the same levels of high-vis PPE as contractors."

"Often it's the ice, frost and snow that cause the most problems during winter. While grit will stop slips and trips, it's staff morale

that can really take a hit at this time. Find ways of keeping staff warm and dry during lunch breaks, and as far as possible while working, and then, hopefully, the workmanship aspect should follow suit."

Why not also ask your staff to register for a free winter work kit from Marley Eternit? It includes a hat, gloves and head torch.

www.marleyeternit.co.uk/agriculture-winter-giveaway



Roundhouse Sales Rocket

Roundhouse Building Solutions are reporting a huge increase in sales and enquiries for the innovative Roundhouse livestock building.

"I don't understand the marketplace, the news is saying Brexit anticipation is causing a down turn, yet this will be our best year ever," said Simon Pelly, Sales Director of Roundhouse Building Solutions.

The company is seeing one farmer in the North East take delivery of his third roundhouse this autumn. He already has two of the 30 metre buildings and is currently having a 45 metre building erected.

This popularity is mirrored by a farmer in Leicester who took delivery of a Roundhouse 30 in the spring, and is so pleased with it he has ordered a further two RH30s and a RH45 for delivery this autumn.

Simon continues, "It is great that farmers who have a Roundhouse can see the financial benefits of the building and plain and simple want more."

The Roundhouse continues to grow across Europe, with the first building erected in France this summer and even a timber framed Roundhouse for a German farmer.

But it's not just agriculture using the Roundhouse, the UK already has two Roundhouses being used in the leisure sector and numerous industrial applications in discussion.

www.roundhouseltd.co.uk



Member News

Testing Times

Industrial buildings need to provide a balance between function, performance and cost. Issues such as energy efficiency, speed of construction and quality of build are all essential parts of this equation. But there is another big issue that also needs consideration – the risk of fire. PIR core insulated panel systems offer all the benefits of fast track offsite construction, together with very high levels of thermal and proven fire safety performance. This article looks at the part that stringent insurer backed standards plays in providing a realistic picture of how these systems perform in real fires.

Life Safety and Asset Protection

The key objective of UK Building Regulation guidance, and the tests and performance standards it requires, is to ensure that personnel can leave the building safely in the event of a fire.

Because insurers take a different approach, having an interest in property conservation as well as life safety, they recognise the limitations of the small-scale reaction to fire tests used to demonstrate simple Building Regulation life safety compliance, and have developed their own large-scale tests. Of these, the two most well-known and widely recognised are LPCB (Loss Prevention Certification Board) and FM (Factory Mutual – now known as FM Global).

LPCB's LPS1181 test, sometimes referred to as the 'garage test' comprises a 10m long, 4.5m wide, 3m high enclosure clad in the materials under test. The enclosure is open at the front, with a smoke skirt at the ceiling preventing the hot smoke layer escaping and adding to the severity of the fire development, as in a real-life situation. The enclosure has a ventilation window at the side. A wooden crib, which generates a 1 megawatt fire load, is ignited in the corner

and the fire development is monitored. The key parameter is that there should be no fire propagation beyond a 1.5m zone around the crib.

In contrast, FM has a quite different, but complimentary test standard for assessing reaction to fire performance. The key fire test standard is FM 4880 Approval requirements for Class 1 fire rating of building panels. There are various levels of performance with the key level being with no height restriction. Achievement of Class 1 to FM 4880 with no height restriction is dependent on performance in a number of tests that can include:

- ISO 12136 Fire Propagation Apparatus
- ASTM D482 Ignition Residue tests
- ASTM E711 Oxygen Bomb tests
- UBC 26-3 Room Test
- FMRC Room Corner Test (25/50ft test)
- FM 16ft Parallel panel test.

Insulated panel systems have performed well in all these tests, with characteristic performance being:

- ✓ formation of stable protective char
- ✓ no flash over
- ✓ no flame spread – particularly in the core of the panel
- ✓ no fire propagation
- ✓ no panel collapse
- ✓ relatively small and acceptable smoke levels
- ✓ high levels of fire resistance – up to 1 hour insulation and integrity is achievable with specific systems.

Fire Performance of External Panels

The validity and relevance of the LPCB and FM test regimes is backed by several live fire scenarios involving certified insulated

panels. For example, a major fire occurred in the external compound of a large Audi dealership following a deliberate act of arson. The insulated panel cladding was subjected to a predicted peak incident radiative heat flux of 31.8kW/m² for at least 10 minutes.

The panels exposed to this intense heat sustained damage in terms of delamination of the exposed steel skin of the panels away from the PIR core, removal of the paint coating and pyrolysis of the PIR core material to a depth of approximately 40mm. There was no evidence of fire propagation within the panels, and the inside of the workshop in an area immediately adjacent to the external fire attack showed no evidence of fire penetration, allowing business as normal the next day.

Why do we need change?

The rate of innovation in the construction industry is increasing to meet requirements, such as energy efficiency, speed of build, and future proofing our buildings. The approach to fire safety also needs to evolve, both to preserve life and protect property. It is essential therefore, that regulatory requirements are clear, robust and balanced to allow for future developments.

The long overdue review of the current regulations provides the perfect opportunity to achieve this. One vital aspect is to have more large-scale testing of entire systems, in order to gain a better understanding of how buildings will really behave in a fire, rather than looking at products in isolation.

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Member News



Briarwood Reaches New Heights with Black EUROSIX

EUROSIX black fibre cement sheeting was specified to clad over 1500m² of both the roof and vertical details on a new private aircraft hangar at an airfield in Berkshire. The new hangar is required to store and maintain the ever-expanding number of new and 'restored' airplanes, some of which are used in military displays around the country. Approximately 200 light aircraft are based at the airfield which, with three runways, is reportedly the largest grass airfield in civilian use in Europe.

The airfield was set up in 1928 when the De Havilland family bought 196 acres of grassland to house the De Havilland Flying School. In 1938, the airfield was taken over by the government, and during the Second World War was the home of the Air

Transport Auxiliary, also Prince Philip, Duke of Edinburgh, was taught to fly at White Waltham in 1952, flying a De Havilland Chipmunk.

Specific demands on the roof and vertical cladding materials for this sensitive project were made, and after due planning consideration, EUROSIX fibre cement roof sheeting with a 'special' black colour finish supplied by Briarwood Products was specified to clad the hangar, which included vertical as well as pitched roof details. EUROSIX is a high quality fibre cement material with natural benefits such as vapour permeability, which significantly reduces the effects of condensation. EUROSIX is a laminated fibre cement material with increased ventilation

efficiency, which is a very important factor for this aircraft hangar due to the regular movement and storage of aircraft, with hot engines and exhaust fumes among other aggressive chemical elements experienced in these buildings during maintenance.

All EUROSIX fibre cement roof sheeting is supplied by Briarwood Products who hold the largest stock of this type within the UK. EUROSIX fibre cement sheeting is manufactured under QS ISO 9002, non-fragile class C and covered by CE certification along with full BBA approval.

If you require any further information about the full range of products supplied by Briarwood visit the website www.briarwoodproducts.co.uk or call 01934 641446.

Winning Repeat Business

Now that 2017 is almost at a close, it's a good time to reflect on the projects delivered and look forward to opportunities in 2018.

One of the projects Norfolk based A. C. Bacon Engineering Ltd delivered, ready for harvest 2017, enabled them to reflect in a different way...

A. C. Bacon Engineering was initially approached this time last year to supply and erect a new grain store for an established customer in Buntingford, near Royston. The brief being that the proposed shed is to be an exact copy of the Grain Store constructed by A. C. Bacon Engineering in the spring of 2013.

The introduction of CE marking of all construction products in July of the same year and the CE marking of fabricated structural steelwork from July 2014 turned a potential simple 'copy' in the mind of the

customer, into a significant engineering challenge.

A. C. Bacon utilised its long-term relationship with Consulting Engineers, South Lincs Consulting, based in Spalding, Lincolnshire to engineer the building and foundations to the latest required standards, whilst using the same steel serial sizes employed on the previous grain store.

Building and Civil Engineering contractors, Flack & Chapman, prepared the site and completed initial groundworks allowing erection of the 24m span x 42m long steelwork frame to commence at the beginning of March. Roof and wall cladding, installation of concrete wall panels, ventilation cowls and access doors were all completed by A. C. Bacon, coordinating with Flack & Chapman, allowing access for casting of the floor, bricking the lower front elevation and completion of the external apron.



Air tunnel and drying floor were also installed to work in conjunction with the stirrer system and internal fan house provided by Mike Wilson of Harvest Installations.

The project was completed ready for the 2017 Harvest on budget, reinforcing the good relationships with the customer and repaying the confidence he had in A. C. Bacon to deliver a high-quality product.

Now autumn farm work is nearing completion, post-harvest storage should be high on the consideration list for farmers. Obtaining planning permission is a hurdle that needs to be gotten over; with certain planning applications taking up to 13 weeks, depending on size, to go through the system. This, coupled with expanding lead-in times, can seriously eat into planned construction periods.

www.acbacon.co.uk



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