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A Word from the Editor

Looking Back on a Challenging Year

What a year it has been! It has been a year like no other, and whilst there have certainly been huge challenges for businesses of all sizes, there have also been opportunities, whether on a business or personal level. Through RIDBA's membership of Build UK, we have been presenting the ever-changing and complex information to members in the most concise way we can, in order for members to remain focussed on their businesses and their people.

It is times like these collaboration through an industry trade association can make a real difference. Over the past year, RIDBA has been working on a number of activities for its members, including:

- Regular updates through a monthly newsletter detailing the latest RIDBA and industry news, as well as weekly updates on the coronavirus situation.
- A CE Marking and Health & Safety seminar where members were provided with the latest information on Brexit, mild steel welding fume, silica dust and working at height.
- The CE Marking campaign in partnership with Dorset County Council Trading Standards, where RIDBA has continued to drive the importance of CE certification.
- The All-Party Parliamentary Group (APPG) for Working at Height, where RIDBA was invited to speak, to offer insight on how to reduce the number of accidents and fatalities whilst working in a rural location.

At the time of writing, as we continue to adjust to the restrictions imposed by coronavirus, the end of the Brexit transition period is hurtling towards us! RIDBA will be doing its utmost to provide members with the information they need

to do business outside of the single market and customs union from 1 January 2021.

Looking ahead to next year, aside from Brexit, members also need to be aware of the changes to the National Structural Steelwork Specification (NSSS) which also come into force from 1 January. There are significant amendments concerning intumescent paint systems, encouraging the paint systems to be applied in the workshop rather than on site, and a mandatory requirement for all steelwork contractors to put in place a third-party certified welding quality management system to BS EN ISO 3834. You can find an article about this on page 10 as well as RIDBA Consultant, Martin Heywood's useful Technical Update on pages 16-17.

The RIDBA Board has decided to continue with the Primary Authority Agreement with Dorset Trading Standards to help level the playing field within our industry and provide an avenue for members to report cases of non-compliance with CE marking.

RIDBA's New Year has, of course, already begun and all members would have received an invitation to renew their membership, along with an invoice and link to the short annual survey to confirm their details are correct. This is an important part of your renewal, so to make the most of the benefits that RIDBA has to offer, please make sure you settle the invoice and complete the survey.

We always welcome news from members of RIDBA, so whether you have completed a fantastic project or have a new product, please make sure you let us know by calling **0844 249 0043** or emailing **marketing@ridba.org.uk**.

Debbie Iley, Trade Association Director

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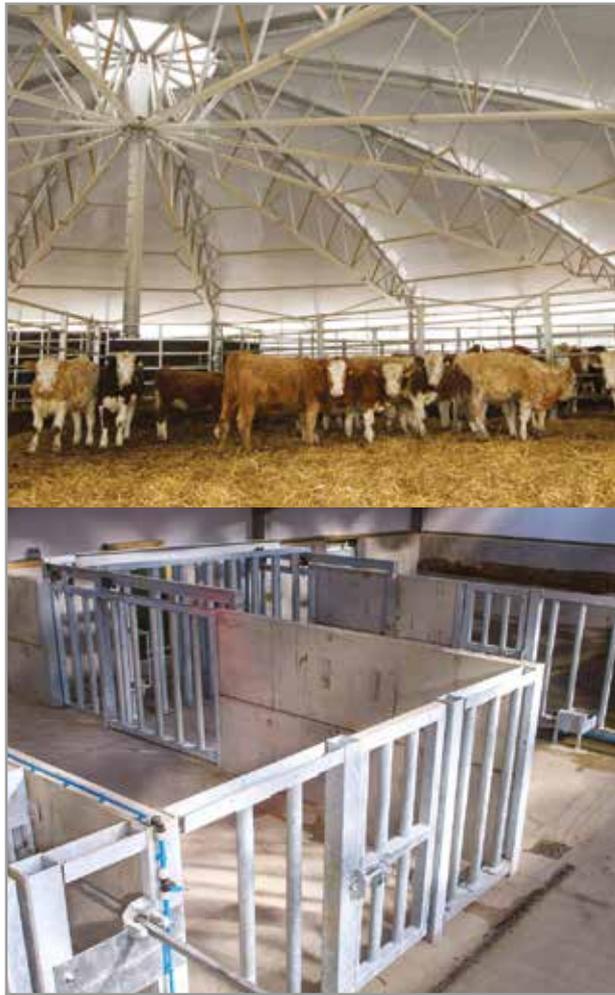
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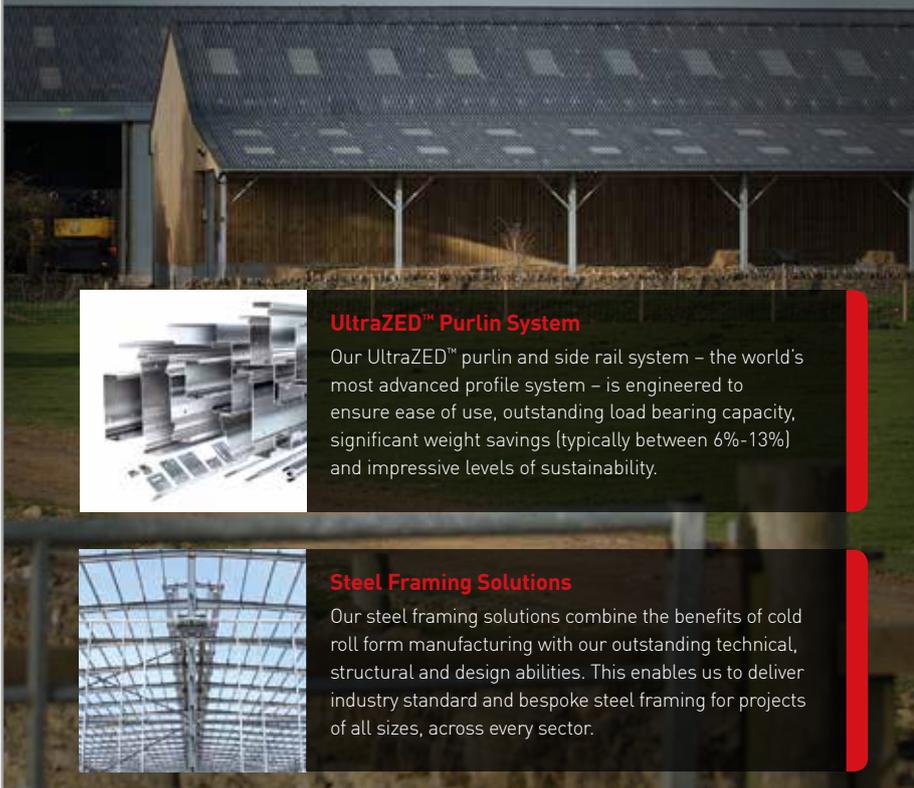
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Join Us at the RIDBA Industry Day

With all events off the cards this year due to the coronavirus pandemic, this year's RIDBA Industry Day has been rescheduled and will now be held on **Thursday 22 April 2021**. We are delighted to be able to hold the much-anticipated event at the Abbey Hotel in Malvern, which is an ideal venue for us all to be able to adhere to social distancing requirements.

You will not want to miss out on the great day that RIDBA has planned, which includes a fantastic line-up of key industry speakers and topics that will be central to your business' needs. These topics include animal welfare and building design, Brexit and CE marking, a discussion on mental health and much more.

We are also pleased to announce that guests will have the chance to visit the world-class Morgan Motors factory, where you will be introduced to the Morgan brand, explaining the story and heritage of the company, before being guided through the factory workshops. Tour numbers are limited.

To book places for the Industry Day, all you need to do is complete our booking form and return to admin@ridba.org.uk. You can find the booking form, as well as more information on the event, at www.ridba.org.uk/ridba-industry-day-2021/



Celebrating the RIDBA Building Awards

RIDBA is also looking forward to holding the RIDBA Building Awards next year, which will take place in September 2021. These Awards are the only ones that recognise the very best in rural and industrial buildings and is the perfect opportunity for members to showcase projects you have been working on over the last two years. The Awards are all about celebrating the achievements of members, so to have your project showcased at next year's awards ceremony, please enter your project before **31 March 2021**.

The competition aims to cover the full spectrum of the industry that RIDBA represents. This year, you will be able to enter your project into one of the following categories:

- **Rural – Cattle, Equestrian, Captive (zoo) and Domestic**
- **Industrial – Light, Medium or Large**
- **Other – Retail, Manufacturing, Leisure, Education and MOD**
- **Training Award – Schemes/ Projects or Managers and Apprentices**

Depending on the entries we receive, the categories may be broken down further.

It is anticipated that over 100 guests from across the supply chain will attend the Awards. This makes the RIDBA Building Awards a perfect opportunity to not only showcase your projects, but also your brand or product through sponsorship. Sponsoring the awards is a great way to gain recognition amongst key decision makers and experts, and RIDBA has tailored different packages to suit businesses of all sizes. If you are interested in sponsoring the RIDBA Building Awards 2021, please contact Debbie Iley at Debbie.Iley@ridba.org.uk to find out more.

The rules and criteria for entering the Awards have been issued to all members, so if you have not received this information then please get in contact. To enter the Awards, you must simply complete our online entry form www.surveygizmo.eu/s3/90264118/The-RIDBA-Building-Awards-2021-Entry-Form before the given deadline. Bookings for the event will be launched soon, so do keep an eye out to make sure you secure your place.





RIDBA Attends Working at Height APPG

Falls from height account for the highest number of preventable fatalities and injuries across all sectors in the UK. There is a common assumption that falls from height exclusively occur in the construction sector. However, agriculture, forestry and fishing have the highest rate of workplace deaths across the UK and falls from height account for 15% of the total number of workplace deaths in these sectors over the past five years.

As the All Party Parliamentary Group (APPG) on Working at Height seeks to understand the root causes and propose effective, sensible measures to send people safely home from work in all sectors, RIDBA was invited to attend their last meeting that focused on rural locations and why working at height, serious injuries and fatalities occur. In doing so, the meeting looked to break down the myths around falls from height, how they happen and where. It also considered how working at height sectors can better work together to reduce serious injuries and fatalities across the board. The meeting heard from the following speakers:

- Steve Leniec, Chair of the National Agricultural Group, Unite the Union
- Tina Morgan, Chair of the Institution of Occupational Safety and Health (IOSH) Rural Industries Group
- Tom Price, Farm Transport and Safety Policy Adviser, National Farmers' Union (NFU)
- Mike Pryke, Advisory Committee for Roofsafety Representative, Rural and Industrial Design and Building Association (RIDBA).

RIDBA has produced an advice sheet on working with fragile roofs which can be found on the website.



Working at Height

RIDBA Welcomes New Members

Since the start of the lockdown back in March, RIDBA has welcomed the following new members:

DPL Steel Buildings – Supplier and installers of steel frame buildings based in Leicestershire

Fair Buildings Ltd – Suppliers and erectors of steel frame buildings based in Tullibody in Scotland

Jaques Int. Ltd – Steel and timber frame manufacturers, specialising in poultry buildings based in Herefordshire

JOHNSTRUCT Ltd – Suppliers and installers of agricultural and commercial buildings based in Essex

LEEP Buildings Ltd – Suppliers and erectors of steel framed buildings including cladding, concrete panels and doors, based in Wiltshire

L F Pearce & Son – Groundworkers and steel erectors based in Aylesbury.

North West Industrial Services Limited – Agricultural engineers based in Preston

S C Smith Construction – Specialists in agricultural and industrial steel frame buildings, groundworks, design and fabrication based in Dorset

Wedgewood Construction Services – Design, supply and erect steel structures and steel-framed buildings for agricultural, equine, industrial and commercial based in Tiverton

RIDBA membership is a mark of quality, which identifies companies as part of a group of professional and reputable market leaders displaying a badge of quality for a trusted industry brand.

If you are interested in joining please email 'Membership' to admin@ridba.org.uk.

Farm Safety Partnership – Twitter Takeover



The Farm Safety Partnership consists of organisations, including RIDBA, representing a broad spectrum of agricultural interests, including the large farming membership organisations; auctioneers; training providers; farming press; and machinery dealers.

Partners discuss how to co-ordinate activities to increase safety awareness, whilst tailoring delivery to engage farmers in specific sectors in the most appropriate way. Organisations involved in the partnership are encouraged to develop unique and complimentary ways to engage with farmers, their workers and other people who may have an influence on farm safety:

- Provide leadership to improve the safety of farms and allied industries.
- Reduce the numbers of deaths and major injuries to farmers, workers and anyone else coming into contact with farming activities.

In order to increase the Twitter presence of the Farm Safety Partnership, it was decided that the partners would do a 'Twitter takeover' for a week.

RIDBA's messages included highlighting the benefits of using a qualified specialist when having work done on farm buildings. The tweets included the following:

- RIDBA insists on #CEMarking compliance as a condition of membership of the association, so choosing a RIDBA member guarantees that the steelwork fabricator has the necessary certification to comply with the Construction Products Regulation requirements.
- The Farm Buildings Handbook is a vital reference for farmers and estate managers considering constructing or maintaining their structures. It will guide you through the preparations of a build project, the law and regulations and into construction technology.

You can follow both RIDBA and the Farm Safety Partnership on Twitter using the following handles: **@RIDBA_Office** and **@FSP_England**.

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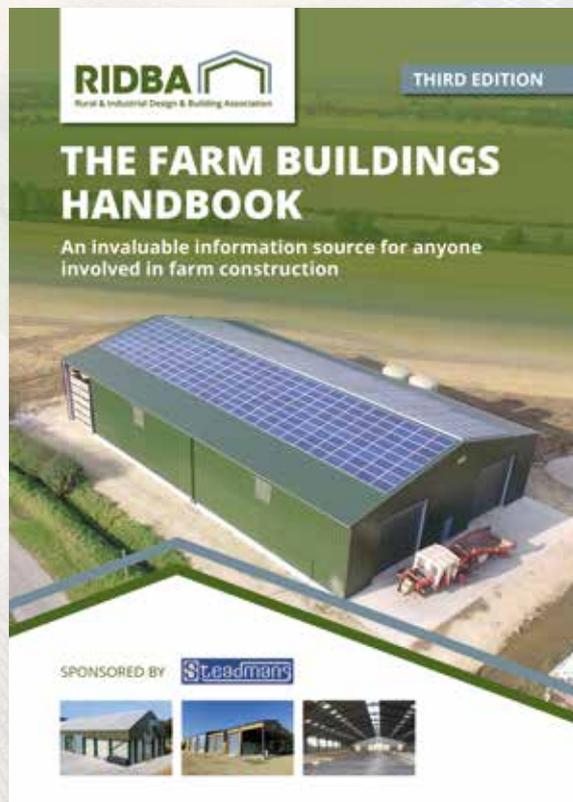
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Fig. 1 East Eninteer, Farm steading, Aberdeenshire. © Crown copyright: HES.

History Lessons

My head hurts and my heart sinks. Nothing to do with sport or politics, but a bulging email collection of data and images of new buildings where animal health is in trouble. How do we manage to get it so wrong sometimes, when we have so much information at our fingertips? Or is that the major problem? That our current situation is exacerbated by the difficulties in filtering the useful information from the useless? Maybe we should pay more attention to past experience. Today is always a good time to ask the question “what can we learn from the past?”

The layout and construction of farm buildings is a balance of resources and desired function, with elements of form introduced occasionally. Livestock buildings have a challenging set of requirements because the contents are dynamic and require daily intervention of labour. They are not storage facilities but living accommodation for animals. Design of facilities will accommodate the house, the bed, the feeding and watering, the effluents, the sick and when done well, the labour. My current focus is to ask if we are still doing all those things?

Fig. 1 shows a typical medium sized farm steading from the mid-19th century, from the earlier days of the centralisation of facilities which occur in modern farms. Storage of feed is above the livestock, with a midden for farmyard manure close by. All materials were moved between and within buildings by manpower, with good design making the most of the topography, the expected impacts of wind and rain, the need for water in specific locations, and gravity to be useful where it can. There are separate spaces for separate functions, and whilst considerable human effort was required to put hay and grain in the various lofts at harvest time, the six-month task of feeding livestock through the winter would be helped by gravity, for free. Labour made a far bigger contribution of resources for food production than than now, and good design acknowledged the value of labour inputs.

The increase in herd and flock sizes in UK agriculture has been accompanied by a substantial decrease in labour resources. Daily tasks previously carried out by manual labour have been displaced by one or maybe two people on a farm, plus machinery. Nobody will miss the physical rigours of manual labour on farms, but in the process of evolving into our current systems we have walked into an un-designed animal health and welfare nightmare.

Fig. 2 shows the layout of extensive cattle accommodation at Sunnyside Farm, East Lothian, built in 1875 (RCAHMS, 2008). The “crowsteps and corbelling” will have done nothing for animal health and welfare, but the separation of animals into smaller groups of similar ages will have had significant positive impacts on biosecurity; the control of spread of infections. Small group size facilitates the observation of individual intakes of feed and water, and the physical signs of health and symptoms of disease in those individuals. The field barns of mid-19th century are very positive for isolation, but not so handy for labour (Fig. 3.) Repeated close contact with humans would mostly (but not always) create a familiarity that would seldom create even sub-clinical stress levels in livestock. The daily task of shovelling and barrowing manures from many small rooms and buildings is not something we would repeat, but there were some important advantages of the old ways. Farmyard manures had a higher ‘value’ in the livestock systems of 19th century agriculture than is sometimes apparent today, with the result that manure management can be treated as an afterthought in some modern designs. A lack of design detail in waste management is seen in excessive labour cost moving muck with machines on a daily basis, for ever, compared with using a broader view at the design stage.

Fig. 3 Field barn. Edale, Derbyshire. Photo: Andrew Critchlow



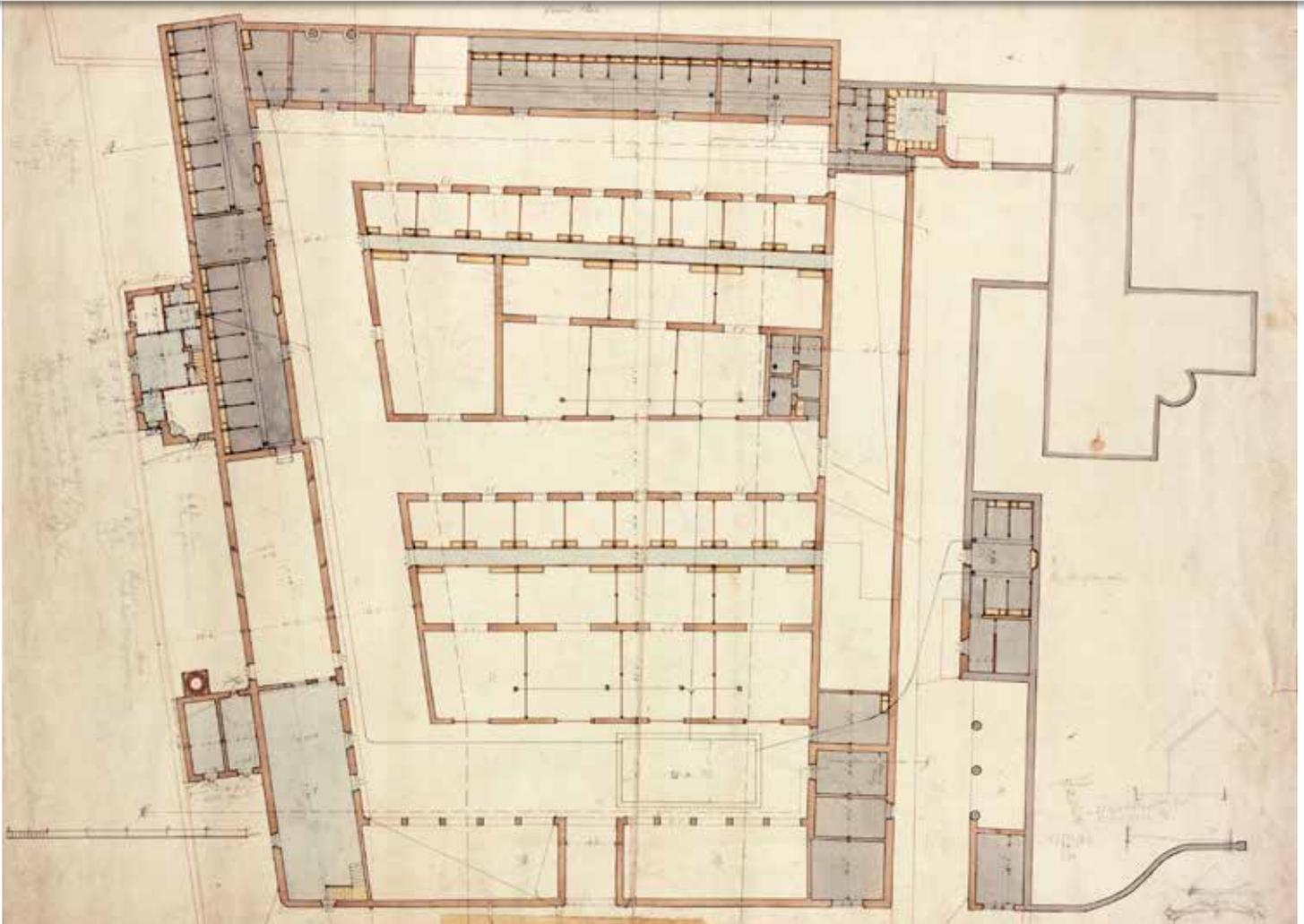


Fig. 2 Extensive cattle accommodation. Sunnyside Farm, East Lothian. © Courtesy of HES.

Large volumes of wastes in one location can cause higher levels of negative impact, such as sedimentation in large, slatted tanks, air quality issues, and localised diffuse pollution. These are all examples of design failure and they all impact negatively on animal health and welfare. Buildings need to be designed to be cleanable, with available time as a major design factor.

The requirement for labour in the form of many persons spending many hours in livestock buildings is no longer a design requirement. This is progress. But looking back to 150-year-old designs we should not ignore some of the inherent risks to animal health and welfare that will have changed, and not for the better. A traditional layout may have 36 cattle in one room, the byre, another cart shed for calving cows and maybe a sick pen, and then three or four separate air spaces for various ages of youngstock. A basic 2020 knowledge of epidemiology will inform us that this is a dramatically lower risk for spreading disease than the large, multi-spanned, 5m eaves height, concrete and steel edifice that is pictured in my inbox. The design issue is that when livestock buildings are created with cost and not value as a primary outcome, and the long-term risks are not understood, there will be failures.

The science is very clear on livestock buildings that are constantly stocked, and/or contain a mix of ages within the same airspace. The risk of chronic and acute diseases, particularly enteric and respiratory diseases, is significantly higher than buildings or spaces within buildings that can be managed on an all-in all-out basis. And here comes the design punch: how do we currently design buildings with regard to labour and muck? Most UK livestock farms use tractors designed for field work to clean out buildings, with machinery that requires high eaves heights, large areas of concrete, simple pen

designs and flat floors, for a task that may take 20 minutes per pen and happen 6 times per year. In Europe, the use of small machinery for livestock production is common practice, but UK agriculture considers it 'expensive'. Large area pens will require rapid turnaround times between batches, which too often equates to inadequate time for effective hygiene procedures. If we keep putting large numbers of livestock into unclean facilities, the R number can be expected to rise. A now familiar story.

The design solutions for modern livestock systems should include an appreciation of what is needed for sustainable production and to allow labour to practice good stockmanship, including the provision of good hygiene. Providing six smaller pens compared with four bigger ones of the same total area may cost more to build, but pens that can be cleaned properly will always make more money than those that cannot.

Royal Commission of the Ancient and Historical Monuments of Scotland. 2008. Buildings of the Land. Scotland's Farms 1750 – 2000. pp203. ISBN 978 1 902419 57 2



Jamie is an Honorary Research Fellow at the University of Aberdeen, and has worked in the area of environment and animal health for 35 years. Jamie is available to RIDBA members for discussion and guidance on matters related to building design and animal health.

Jamie Robertson. Livestock Management Systems Ltd.
Contact jamie@ridba.org.uk



Industry News

Significant Changes in the 7th Edition of the NSSS

The BCSA has recently published the 7th edition of the NSSS. This latest edition has been extensively updated and represents the biggest change since its introduction in 1989. One of the main changes is the inclusion of a new section on intumescent paint systems.

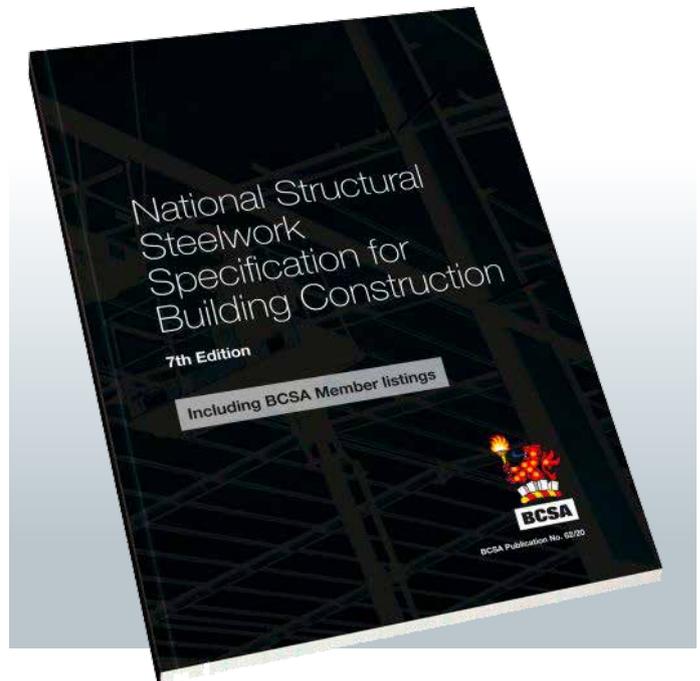
The National Structural Steelwork Specification for Building Construction (NSSS) is primarily a construction (or execution) specification but also acknowledges the common contractual situations where the steelwork contractor designs the connections (and in some cases the members as well) - it includes checklists of information that the contractor needs to carry out design.

The principal topics covered in the NSSS are as follows:

- **Information required by the Steelwork Contractor**
- **Materials**
- **Information provided by the Steelwork Contractor**
- **Workmanship**
- **Welding**
- **Bolting**
- **Fabrication accuracy**
- **Erection**
- **Erection accuracy**
- **Protective treatment**
- **Quality management.**



Image courtesy of Timmins Engineering and Construction



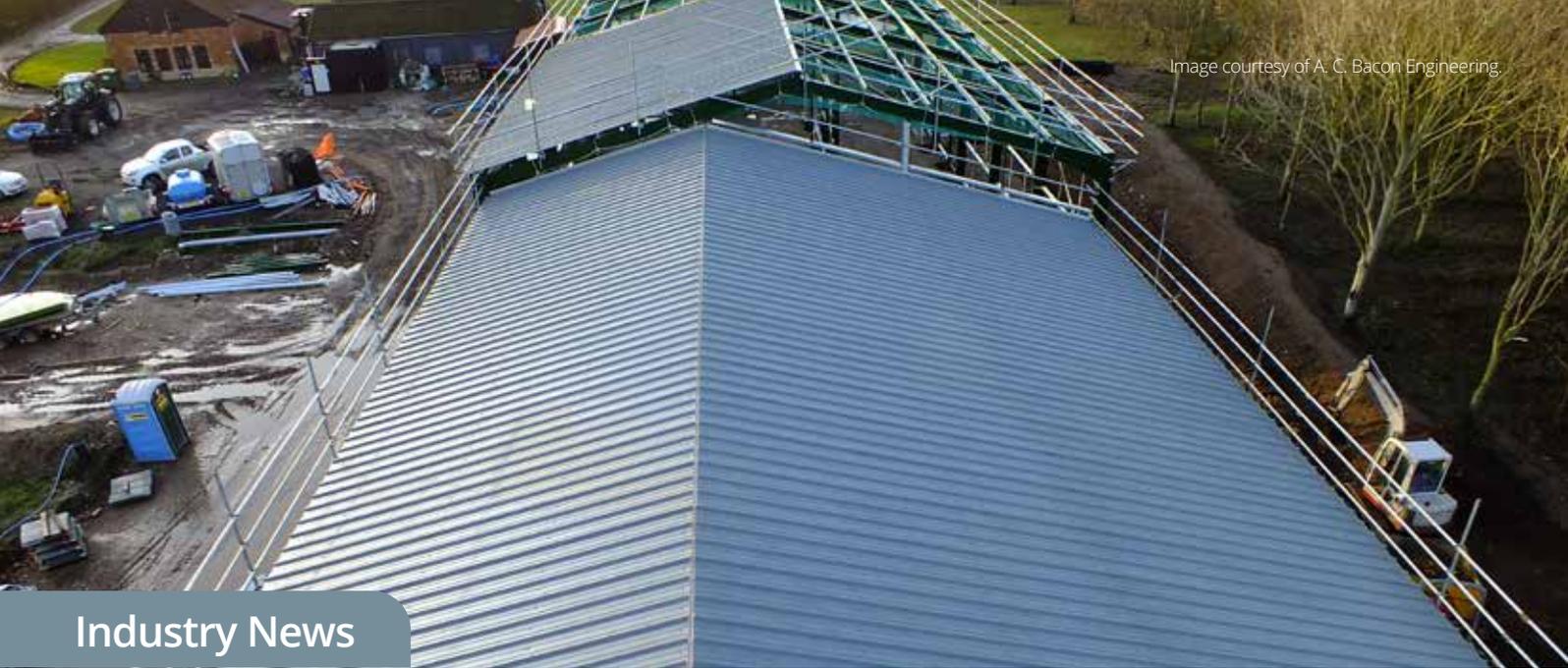
Following the tragic Grenfell Tower fire and the call from Dame Judith Hackitt for industry not to wait for legislation, the BCSA said it and the wider constructional steelwork community decided to take ownership of the specification, application and inspection of intumescent paint systems.

Section 10 of the NSSS now includes comprehensive information on intumescent paint systems and to improve quality, it encourages the paint systems to be applied in the workshop rather than on-site. Other significant changes include a mandatory requirement for all steelwork contractors to put in place a third-party certified welding quality management system to BS EN ISO 3834.

The main body of the NSSS is limited to Execution Class 2, but this version also contains an Annex of the requirements for Execution Class 3 for static structures and an Annex giving general guidance on Execution Class 3 for buildings subject to fatigue, such as crane supporting structures.

To allow steelwork contractors time to put in place the necessary third-party systems to comply with the Specification it was decided that the NSSS would not come in to force until **1st January 2021**.

RIDBA members have already raised a number of queries and the BCSA has said they would be publishing a commentary by the end of quarter one to deal with some of these questions. For further information, we would encourage members to read the Technical Update on pages 16-17.



Industry News

Physical and Mental Fitness for Roofers Returning to Work After the Covid-19 Pandemic

Roof work is both a physically and mentally demanding profession and there is a reliance on the workers' individual capabilities to be able to cope with these demands to prevent accidents, not only to themselves, but to their co-workers and potentially members of the public. A worker's fitness level has always been a risk factor in the roofing industry, which has now been compounded by the Covid-19 pandemic. For workers returning to the workplace after a prolonged absence due to the lockdown we would recommend that health surveillance is undertaken so that their physical and mental fitness is assessed to help integrate them safely back into the workplace.

Health surveillance is about systematic, regular checks on workers to identify early signs of ill health, and then acting on the results. It is needed to protect workers who are at an increased risk so that steps can be taken to treat the condition, prevent further damage and give early warning if protective control measures are no longer effective.

What is a Fit for Work Assessment?

The primary purpose of undertaking a fitness for work health assessment is to make sure that an individual is fit to perform the tasks involved effectively and without risk to their own or others' health and safety.

It is not the intention to exclude a person from a job or role being undertaken but to make any necessary reasonable modifications or adjustments to the job or role to allow the person to work efficiently and safely. A fit to work assessment may be done for the following reasons:

- There has been a significant change in the working conditions
- There has been a change in a worker's health
- A medical condition may limit, reduce or prevent them from performing a new or current job task effectively, for example, musculoskeletal conditions
- A medical condition is likely to make it unsafe to do the job or task
- A medical condition may be made worse by the job or task, for example, excessive physical exertion by an employee with a respiratory condition.

How has Covid-19 affected workers mental health?

There are many factors to consider including the impact of the lockdown and ongoing restrictions such as social distancing and self-isolation. Some workers might be fearful about contracting the virus and others might have suffered bereavements, without the chance to say goodbye or attend funerals. There will also be fears about job

security, returning to the workplace (*including using public transport for commuting*) and financial concerns.

Early research has identified these negative health impacts that have occurred due to the lockdown:

- Earlier signs of fatigue
- Musculoskeletal conditions due to inactivity
- Reduced exercise and increased alcohol consumption.

In relation to mental health specifically, studies into the nation's mental wellbeing have reported:

- Reduced motivation
- Loss of purpose
- Anxiety and isolation.

Many workers will not feel comfortable in speaking up about poor mental health which is unlikely to change in the foreseeable future due to the long-lasting after-effects of the pandemic.

How to support your returning workers

Some of the practical ways that could be utilised to support workers returning to the workplace after lockdown could be:

- Re-inducting them into the workplace to help them feel connected and engaged.
- Have a competent and trained person undertake a fit for work assessment, and act on the findings.
- If workers are normally paid by quantity produced, consider paying a fixed wage for the first couple of weeks so they do not exceed their own limits. This would also remove the mental stress off the worker by knowing that their income on returning to work is stable.
- Introduce longer and more frequent breaks during the working day.
- Communicate with workers regularly on wellbeing and mental health support. This can be supported by activities that encourage physical, mental and social wellbeing.
- Provide mental health awareness-raising activities – work towards a culture where it is acceptable to talk about and seek support for poor mental health.

This could be achieved by providing access for your employees to a mental health professional if required or it could be as simple as promoting an open-door policy to make managers or supervisors more accessible if any operatives want to start a discussion.

This guidance note was produced by NFRC in partnership with the Advisory Committee for Roofsafety, of which RIDBA is a member.



Industry News

Preserving the Traditional Farm Buildings of the Westmorland Dales

A new grant scheme has been launched by the Westmorland Dales Landscape Partnership Scheme offering financial support to local landowners and farmers within the Westmorland Dales to carry out conservation work on a number of traditional farm buildings under threat.

These buildings are a distinctive feature of the Westmorland Dales landscape, but they are also one of the most vulnerable types of historic building in the area. With dramatic changes in farming practices over the last 50 years, many farm buildings are now redundant and have therefore been demolished, left to decay or converted to other uses.

A small number of grants are now being made available to assist with restoration work to save these important cultural assets, raise their profile and help to reveal their importance to the heritage of the Westmorland Dales.

Hannah Kingsbury, Cultural Heritage Officer, said: "The Westmorland Dales area has many beautiful traditional farm buildings, reflecting the area's rich farming heritage. We're keen to conserve a few key buildings which will help to demonstrate the link between our traditional farm buildings and how the land was once managed.

"We are delighted to be inviting applications from owners and

tenants with buildings that are highly visible in the landscape, and that have a proposed future use (excluding residential conversions)."

The Traditional Farm Building Conservation Grant scheme is now open for expressions of interest. If you have a building which you think may be eligible, visit the Westmorland Dales website www.thewestmorlandadales.org.uk for guidance on eligibility, submission guidelines and contact information.

The grant fund is limited, and the potential costs of conservation are high, so a small number of buildings will be identified for conservation from the applications for conservation. The grant will provide 80% of funding, with an additional 20% required from the landowner or occupier.

If you would like to discuss this further, please get in contact with Hannah Kingsbury, Cultural Heritage Officer, on **01539 756624** or Hannah-Kingsbury@fld.org.uk.

The Westmorland Dales Landscape Partnership Scheme aims to unlock and reveal the hidden heritage of the Westmorland Dales, enabling more people to connect with, enjoy and benefit from this inspirational landscape. Thanks to National Lottery players it has been supported by a grant from the Heritage Fund.

NFU Mutual says Cost of Farm Fire Damage is Increasing

The cost of devastation caused by farm fires reached a five year high of £49million last year, according to rural insurer NFU Mutual's claims statistics.

Electrical faults accounted for over half the total, followed by arson which rose by 40 per cent to £9million.

Additional analysis from the insurer indicates that 2020 is on track to see an even higher number of incidents and costs.

Andy Manson, managing director of NFU Mutual Risk Management Services Ltd said: "Farm fires put the lives of people and livestock at risk as well as having a huge emotional and business impact on farmers and their families.

"The scale of the damage we are seeing shows it's more important than ever to reduce the risk of a fire. Farmers not only

have to be mindful of the usual farm hazards such as electrical equipment, combustible material and fuel but also protect themselves from the alarming rise in arson damage.

"Many farmers are feeling particularly vulnerable this year and with straw in short supply after the poor harvest, more and more are using remote camera systems linked to mobile phones as well as fencing off straw stacks and farm buildings to discourage arsonists."

Fires caused by electrical faults totalled £25million last year. Operating in harsh environments, farm electrical systems often get wet, hot or dusty leading to short circuits and cable failures. RMS is advising farmers to have regular electrical inspections, not to overload power supplies and to have enough plug sockets to avoid using multi gangs and other adapters.

Although the number of farm fires last year was at a similar level to 2018 across the UK, the damage was more costly. NFU Mutual's



initial claims figures from January to July 2020 have seen an increase in both incidents and cost, suggesting that 2020 could be heading towards a six-year high.

Article sourced from: <https://www.southwestfarmer.co.uk/news/18791149.nfu-mutual-says-cost-farm-fire-damage-increasing/>

<https://www.agriland.co.uk/farming-news/cost-of-farm-fires-up-by-1-million-in-northern-ireland/>



Industry News

FASET Offers Invaluable Guidance and Training to Optimise Safe Working at Height

FASET (Fall Arrest Safety Equipment Training) is the established trade association and training body for the safety netting and temporary safety systems industry. The guidance and training offered to members have become the trusted standard for safety and best practice. A growing number of customers now choose to partner with a FASET member to ensure valuable peace of mind on their project.

Regulation 6 of the Working at Height Regulations 2005 (WAH Regs) is a useful rule of thumb for working at height:

1. **Avoid** – avoid working at height wherever reasonably practicable.
2. **Prevent a fall** – if it is not reasonably practicable to avoid working at height then adopt the most suitable method of working and select the most suitable equipment for work at height, which prevents falls from occurring.
3. **Mitigate** – if it is not reasonably practicable to prevent a risk of a fall, measures should be taken to mitigate the distance and consequences of a fall.

We are pleased to present a short summary of some important changes in fall arrest protection, as well as some useful reminders of the fundamental principles of best practice.

Safety Netting Guidance

Did you know that the British Standard for safety nets used on construction sites was updated last year to BS 8411:2019? This replaces the previous BS 8411:2007.

This is a full revision of the standard, and introduces the following principal changes:

- removal of the technique of pinning as this is no longer used;
- clarification of temporary repairs; and
- clarification relating to rigging nets as close as possible to working level.

FASET's Recommended Hierarchy for Working at Height

There are six methods of access currently recommended for rigging and de-rigging safety nets which should be considered in the following order:

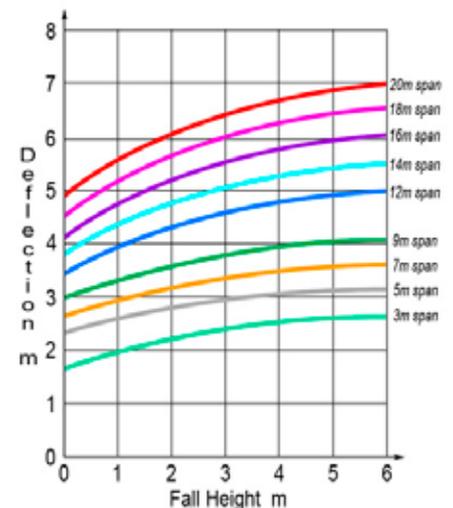
1. Rig / de-rig remotely – using remote attachment devices.
2. Rig / de-rig using powered access – MEWPs.
3. Rig / de-rig using ladders – recommended maximum height 4.5m.
4. FASET Specialist Rigger – employing industrial climbing techniques
5. Rope Access Techniques – IRATA
6. Mobile Access Towers

Site conditions often dictate that a combination of any or all the above methods may be required.

In UK construction it is generally acceptable to work to a rule of thumb of three metres clearance.

Edge Protection

It is vital to always use the appropriate system of edge protection for each project, meeting the requirements of BS EN 13374 (the European standard for Temporary Edge Protection Systems). Make sure the edge protection system you use has been designed, calculated, and tested to meet the dimensional and load requirements detailed within the Standard.



Stair Towers

Stair towers provide safe access to floor or roof structures, allowing multiple workers safe passage in either direction at any one time. They can also carry tools and materials up the stairs safely, reducing the need for a forklift.

Installers of temporary stair towers must:

- Ensure that the installation is carried out in accordance with the Manufacturers Information Manual (MIM)
- Tie it in to the structure following a specific temporary work design in accordance with BS 5975: 2008+A1: 2011 Code of practice for temporary works procedures and the permissible stress design of falsework
- Hold either a:
 - o CSCS Blue Skilled Worker FASET Stair Tower Installer card
 - o CISRS (specific system endorsed) card

FASET offers a stair tower course which includes both theoretical and practical tuition.

There is a full range of guidance available from FASET – please visit faset.org.uk for full information.



Industry News

Planning for Slurry Storage

There seems to be an increased interest from local authority planners and regulatory bodies in slurry storage installations. Large-scale pig and poultry units have experienced this higher level of scrutiny for some time but other livestock sectors of all sizes are being asked for more information about the potential impact their development will have on the local environment.

Several considerations need to be addressed when planning a slurry store, whether it be an earth-banked lagoon, a concrete structure or a steel tank. The first is Local Authority Planning Consent. An application will invariably be required which will in turn often result in a consultation request of Natural England and the Environment Agency.

The Environment Agency will be concerned with the construction and siting of the store in relation to the risk of pollution incidents, while Natural England will examine the likely impact on the local environment. Impact Risk Zones (IRZ) are used to assess the level of likely impact on air and water quality and local sensitive sites.

IRZs appear on NE official maps as concentric rings around Sites of Special Scientific Interest (SSSI) up to 5km and International Protected Sites, up to 10km. These concentric rings describe the zones, and together with the size of the development, will determine the likely impact on the site. For example, ammonia emissions from slurry stores could result in nitrogen deposition on sensitive habitats affecting the flora or increasing eutrophication of watercourses.

IRZs are available on [MAGIC.gov.uk](https://magic.defra.gov.uk) and the guidance document can be found here: https://magic.defra.gov.uk/Metadata_for_magic/SSSI%20IRZ%20User%20Guidance%20MAGIC.pdf

An on-line, interactive calculator Simple Calculator for Atmospheric Impact Limits (SCAIL) can be used to estimate the impact.

There are other regulatory constraints to consider. Nitrate Vulnerable Zones (NVZs) are designed to reduce the risk of diffuse pollution to water by limiting the quantity and timing of slurry spread. There is therefore a requirement to provide five month's storage for dairy slurry and six month's storage for pig slurry. Storage capacity should



include not just slurry but rainfall runoff from dirty yards, roof water if not diverted elsewhere, parlour washings etc.

Just over half of England is within an NVZ and the Welsh Government are proposing very similar restrictions on the whole of Wales. These areas are reviewed every 3 years and as any area may be affected it is advisable to plan to meet the NVZ requirements in all locations. The AHDB Slurry Wizard is a freely available calculator allowing the user to calculate storage requirements and explore options to meet regulations. The Slurry Wizard calculator can be found here:

<https://ahdb.org.uk/knowledge-library/slurry-wizard>.

Silage, Slurry and Agricultural Fuel Oil Regulations (SSAFO) concerns the construction of tanks or lagoons that contain these materials. Again, there are requirements for a minimum capacity of slurry stores and silage effluent tanks, their structural integrity and durability. These regulations apply to all storage facilities built or substantially altered since 1991. CIRIA Reports C759a & b provide guidance on this.

The Farming Rules for Water 2018 place legal obligations on farmers in England to, among other things, ensure that manures are only spread at times of crop demand and when there is minimum risk of runoff or diffuse pollution. This effectively creates a requirement to store slurry throughout the winter months. Although current NVZ rules require 5 month's storage for cattle slurry, the Environment Agency recommend planning for 6 month's storage to accommodate all circumstances.

It's worth noting that the Government's Clean Air Strategy will require all slurry stores to be covered by 2027. So any planned construction should include the ability to install a cover within the next few years.

It's not all bad news for the farmer who is looking to invest in slurry storage. This material is not a waste but a valuable resource which, if used efficiently, can save on purchased fertiliser costs. Nutrients contained in slurry should be part of any livestock farm's Nutrient Management Plan. The Nitrogen, Phosphorus and Potash alone contained in a typical cow slurry, if they were purchased as manufactured fertiliser, equates to £3 per tonne. It requires careful management and utilisation to make use of these and that means adequate storage facilities to enable optimum timing of application.

It is often very advantageous to consult with the Environment Agency at the early planning stages to get constructive input and to ensure all regulatory requirements are met.

David Ball, **Senior Manager Environment & Buildings, AHDB**



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Technical Update

NSSS 7th Edition

The National Structural Steelwork Specification (NSSS) has been a familiar fixture on the desks of steelwork fabricators' engineers and workshop supervisors since its introduction in 1989. The most recent incarnation of this bible of structural steelwork, the 7th edition, has recently been published by the BCSA with important implications for RIDBA members. The aim of this article is to highlight the most significant changes from the 6th edition and to discuss what these changes mean for frame manufacturers and other suppliers of structural steelwork.

What is the NSSS?

The NSSS has long been regarded as the ultimate handbook for the fabrication and erection of structural steelwork, including portal frame sheds, multi-storey buildings and bridges. It is also an important contractual document, since many clients use it as the specification for their projects, i.e. compliance with the NSSS is a contractual requirement. For the fabrication shop, the document includes fabrication tolerances and other best practice guidance for general workmanship, rules for welding and the testing of welds and also includes sections on protective coatings and quality management. For the frame erectors working on site, there are rules relating to erection tolerances and guidance on appropriate site conditions and site work generally. The NSSS is routinely specified by commercial and industrial building clients so is effectively mandatory for these sectors. It is less common in the agricultural sector, but many frame manufacturers use it as a best practice handbook, even when not specified by the client.

Major changes in the 7th edition

While the 6th edition of the NSSS, which was published in 2017, contained several important updates compared to its predecessor, including the introduction of Building Information Modelling (BIM) for the first time, it was always viewed by its authors as an interim version, pending a comprehensive review. This interim status is reflected in the fact that the 6th edition was only available as a PDF document. David Moore of the BCSA gives the following reasons for the current revision:

- The need to be in step with the revised EN 1090-2 published in June 2018
- The new EN 1090-4 for light gauge steel published in December 2018
- The fact that the chapter on corrosion protection was 20 years old
- The need for a specification for intumescent coatings (following Grenfell Tower)

- Requests from specifiers for Execution Class 3 to be included in the NSSS
- Demands for a hardcopy version of the NSSS by users.

The resulting 7th edition contains several significant changes from the 6th edition, as summarised below:

- Mandatory ISO 3834 - 3 for EXC2
- Mandatory ISO 3834 - 2 for EXC3
- Routine testing of welds
- Technical knowledge of the RWC
- Hold times
- New look up table for fracture toughness
- New annex on Execution Class 3 – Static
- New annex on Execution Class 3 - Fatigue
- New section of intumescent coatings
- Revised section on corrosion protection.

Mandatory ISO 3834 certification

Of all the changes noted above, by far the most significant for RIDBA frame manufacturers is the introduction of mandatory ISO 3834 certification for EXC 2 and EXC 3 steelwork. ISO 3834 has been around for a while and its use is common in the world of highway and railway bridges, where welds have to cope with the demands of dynamic loading and the consequences of failure could be fatal. However, it was not seen as necessary in the more benign environment of a standard steel framed shed where the loads are generally static in nature and the consequences of failure are less severe. It is worth noting that the change in status only applies to the NSSS; the rules in EN 1090-1 remain unchanged, so there are currently no implications for CE marking.

According to the NSSS 7th Edition, for EXC 2 the Steelwork Contractor's system for the management of welding shall be certified as complying with the standard quality requirements described in BS EN ISO 3834-3, while for EXC 3 and EXC 4 the more onerous comprehensive quality requirements described in BS EN ISO 3834-2 must be observed. There are no requirements for EXC 1 at present. For EXC 2 and above, the frame manufacturers will need to have a Weld Quality Management System (WQMS) that complies with the requirements of ISO 3834 across a range of areas including welding personnel and their training, equipment, welding procedures, consumables, heat treatment, inspection and testing, corrective actions for non-conformance and identification and traceability. The level of detail required within the documented WQMS will depend on the Execution Class.



The ISO 3834 WQMS should be very similar to the existing welding procedures already required for CE marking, so no major changes are anticipated, subject to the comments in the next section. The main issue for frame manufacturers is the need for additional certification and the availability of this certification service. Frame manufacturers will need to check whether the Notified Body that they currently use for CE marking is also accredited for ISO 3834 certification.

Welding and weld testing

In addition to mandatory certification to ISO 3834, other changes have been made to the sections of the NSSS dealing with welding and weld testing. These include a couple of changes relating to the Responsible Welding Coordinator (RWC) role. Firstly, in the context of training welding operatives and ensuring that they hold the appropriate qualifications, the RWC may now act as the examiner, avoiding the need to appoint the services of an external examiner. This is in line with EN 1090-2 and will be welcome news for small fabricators and frame manufacturers. Secondly, changes have been made to the technical knowledge required by the RWC, but this only affects the welding of S275/S355 for thicknesses of steel greater than 50 mm. Clause 5.5.1 of the NSSS dealing with the routine testing of welds has been rewritten to improve clarity and to distinguish between 'Process Control' and 'Fitness for Purpose'.

Other changes

The previous issue of this column looked at the rules for brittle fracture and the selection of the appropriate steel sub-grade. It was noted that PD 6695-1-10 presents a simple look-up table for limiting thicknesses in place of the complicated method in BS EN 1993-1-10. A similar table is presented in the NSSS and has been updated to take account of new research undertaken by the Steel Construction Institute (SCI).

Two new annexes are included in the 7th edition, which present specific rules and guidance relating to Execution Class 3. The first annex sets out the changes to the NSSS where Execution Class 3 for static structures is specified. These rules would apply to buildings with a high consequence of failure or similar structures not subjected to dynamic loading. The second annex sets out specific requirements for structures that may be susceptible to fatigue. This generally means structures subjected to dynamic loading such as bridges.

A major addition to the NSSS is a section on intumescent coatings for fire protection. The scope of the guidance ranges from surface preparation through application and inspection to maintenance and, where necessary, repair. This new section fills an obvious void in the guidance available to steelwork fabricators and has, in part, been motivated by the tragedy at Grenfell Tower and an acknowledgement that further guidance is needed in the subject of fire safety and protection.

Conclusions and implications for RIDBA members

The 7th edition of the NSSS represents a major upgrade of this most valuable of documents, although many of its provisions are not directly applicable to the fabrication and erection of agricultural buildings. By far the most significant change is the need for ISO 3834 certification for welding, which will require an external audit by an appropriately accredited body. RIDBA members are advised to contact their existing notified body to see whether they are able to offer this service. Other changes such as the new sections on intumescent coatings and Execution Class 3 will probably only be of interest to those members who fabricate steelwork for larger industrial or commercial buildings. Finally, it is worth remembering that all of the above only applies when a client specifies the NSSS and does not have any bearing on CE marking or compliance with EN 1090.

The 7th edition of the NSSS is available to purchase in hardcopy form from the BCSA bookshop and is priced at £20 for BCSA members and £25 for everyone else.

Written by RIDBA's Technical Consultant, Dr Martin Heywood.

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Dr Martin Heywood RIDBA Technical Consultant

A specialist in the structural engineering of agricultural and industrial type steel framed buildings, Dr Martin Heywood, is the technical consultant for RIDBA members.

Martin represents RIDBA on the B/549 committee and the sector on B/525/1 and CB/203.



For further information contact: Technical@ridba.org.uk



The First Timber 'Roundhouse 22' Goes Into Use in Holland

Commissioned by Koesafari Erve Vechtdal in Holland, the world's first timber Roundhouse 22 has come to life. With a diameter of 22 meters, this is the first smaller version of the wooden Roundhouse and has space for 60 to 80 head of beef cattle.

A unique feature of this Roundhouse, other than the stunning timber structure is that it has an internal watchtower. The watchtower can be reached from the "visitor's plateau", which offers a view of the animals in the building. When visitors climb further, the watchtower offers a beautiful view of the beautiful landscape of the Vechtdal around the rivers Overijsselse Vecht and the Regge.

Fire red cattle are housed in the Roundhouse with the meat sold through the farm shop and restaurant as well as to local catering establishments. The farm is an open farm and welcomes visitors to experience a 'Cow Safari' where they learn all about the special inhabitants of the Overijsselse Vechtdal.

Simone takes her guests in her vintage Hanomag tractor from 1956 with a covered wagon, on safari through the nature reserve of Staatsbosbeheer where her cows live and graze.



The Brand-red Vechtdal cow is an old Dutch cow breed and feel very much at home along the banks of the river.

During the Cow Safari, visitors visit the herd and Simone talks about these special animals and their personalities. Visitors learn how every herd has a leader and that the calves are born outdoors and not in the building.

The Cow Safari is fun and educational for young and old. Learning all about the animals, the area and modern farming where nature-inclusive farming is the norm. It is not without reason that the Cow Safari was voted the Most Innovative Outing in the Netherlands by the members of the ANWB and the Cow Safari is the winner of several other awards for its' green credentials.

Simon Pelly, Managing Director of S&A Fabrications in the UK, the company that invented and pioneered the Roundhouse from their base in Barnard Castle, County Durham, says he is delighted to see how the building has taken off in Europe and how the European distributors, ID Agro, have continued to innovate with the structure and uses "A wooden Roundhouse not only looks good, but it also has many benefits from an environmental perspective. While we've not had the chance to build one here in the UK, it's great to see how this one in Holland has been reimaged to be a real business asset for Simone and her Cow Safaris".

The Roundhouse is currently produced in three different sizes here in the UK and they are being used by farmers and landowners all over the country, housing everything from herds of cattle, to children's play areas.

To find out more visit, www.s-and-a.co.uk or contact Simon Pelly on **01833 690 379** or marketing@s-and-a.co.uk.

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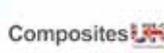
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Robinson Structures Provide Clients with High Quality Service through STRUMIS System

In June 2017, Robinsons opened the doors to their brand-new state-of-the-art headquarters in Derby, UK. Their brand-new site which spans 5340m², comprises a stunning and vast office space more (akin to a 5* hotel) and workshop production facility incorporating the latest CNC Peddinghaus machinery.

Through continuous investment in the latest technology, their weekly production capacity has soared to an impressive 200 tonnes of fabricated and painted steel per week. They are CE marking accredited and with fully automated CNC machinery, 3D Detailing and STRUMIS MIS software Robinsons are one of the most technologically advanced steel fabricators in the world.

A significant and strategic element of Robinsons planning for success was going to rest upon bringing the companies resources and technology systems together under "one-roof". After considering all available systems, STRUMIS was chosen as the overarching Management Information System of choice to integrate all departments, CNC machinery, 3D modelling, BIM estimating and Access Accounts.

- **Total traceability on material and processes helping with CE marking.**
- **Estimating from Revit models direct to STRUMIS and conventional methods.**
- **Document Control such as drawings, NC Files and material test certificates.**
- **Purchasing for all steel and non-steel goods and services. EDI link with steel suppliers.**
- **Inventory Management for all steel and non-steel items such as consumables.**
- **Contracts Management for real-Time Contract Budget Cost Control.**
- **Planning & Scheduling for detailed tracking of parts and assemblies and despatch notes.**
- **Production Console for employee and process time recording and efficiency reporting.**
- **Integration with Access Accounts program avoiding any duplication of purchase orders.**
- **CNC Management for feeding optimised NC files to Peddinghaus CNC machinery.**

STRUMIS has enabled Robinsons to eliminate manual data input and human error through the STRUMIS & Tekla integration, providing accuracy, efficiency and reassurance to the Procurement and Production departments. The seamless processes provide clarity between departments, suppliers and clients; from estimating tendering, to procurement, production, painting and on-site erection.

Staged STRUMIS Implementation

"We gradually introduced STRUMIS to our team" explains Operations Director - Ashley Robinson with regards to implementing STRUMIS.

Robinson Structures rolled-out STRUMIS in a logical fashion, initially setting up the Inventory library for the Purchasing Department,



then into Estimating, then integration with Accounts through to Procurement and Production. Full utilisation was paramount before expanding into other departments. Ashley Robinson was keen to highlight the importance of embracing STRUMIS but not at the expense of disruption to the business. "At no time have we felt pressure or resistance from our team, everyone involved has embraced STRUMIS and being part of our success through baby steps initially to full implementation thanks to how practical and easy to use STRUMIS really is".

Solid Reputations Working in Harmony

A business with such history and reputation like Robinsons had to ensure they adopted software that matched their quality and structure, which would ensure they continued on the correct path by producing excellent projects on time and in budget.

Managing Director and the founder of the business Steve Robinson states "With STRUMIS we felt confident the system could deliver our very exacting requirements, whilst at the same time the experienced, knowledgeable and professional service we received from the STRUMIS team pre-sales and post implementation has been exactly what we hoped for and expected and provides us with the reassurance we have partnered with a company in STRUMIS Ltd who's staff possess the necessary steel industry knowledge alongside the STRUMIS system to contribute towards our continued success".

STRUMIS is the leading and most advanced software solution available today, providing a proven, future proof, easy-to-use Management Information System which assists in reducing overheads, eliminates duplication of work, reduces material waste thus providing opportunities for significant cost and time savings in addition to increased productivity and improved profitability.

STRUMIS is currently delivering cost, time and traceability benefits to agricultural, equestrian and structural steelwork fabricators including many industry leading fabricators in over 65 countries with 20,000 users around the world.

To find out more visit, www.strumis.com/case_studies.php?id=855 or contact **01332 545800** or sales@strumis.com.



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New Solar PV Partnership

Powell & Co. Construction Ltd, based in Herefordshire, are working in partnership with Alt-Energi to provide Solar PV solutions for businesses. Alt-Energi, based in Worcestershire, specialise in the supply and installation of Solar PV for poultry and agricultural buildings.

Solar PV is a proven technology and an excellent solution for poultry and agricultural buildings, with many additional benefits. Easy to install, Solar PV connects to the sites electrical system and converts all the energy generated to be utilised on-site. In turn, any excess power can be fed back into the National Grid, providing an additional income stream.

In terms of the financials, based on a roof-mounted 50kW PV solar panel system fitted on a free-range poultry house the total project cost* is £35,000. The estimated net benefit is £161,722.97, achieving a payback approximately 6 years.

*Figures based on 45,000kWh generation and using 80% on-site.

The team have extensive experience in the field of renewable energy installation and keep pace with technological advancements, the latest methods of installation and maintenance. They are the experts providing advice on the best ways in which you can financially benefit from renewables.

Whether it's 1,200m² or 8,000m², Powell & Co. and Alt-Energi can supply and install roof-mounted Solar PV systems and handle every aspect of the installation.



The experienced team will support each step required which includes:

- Initial Meeting
- Site Survey
- District Network Operator Application
- System Proposal/ Quotation and Design
- Technical Survey
- Installation
- System Handover
- Maintenance

The partnership between Powell & Co. and Alt-Energi brings together a wealth of construction experience and network of contacts to support installations.

Discover more online

<https://www.powellbuildings.com/buildings/solar-pv/>.



One Supplier - One Complete Building Solution

2020 has undoubtedly been a challenging year for the industry and the unprecedented effects of the Covid-19 pandemic has resulted in price fluctuations and supply chain issues throughout the world.

Remarkably, Briarwood has worked continually during this period of uncertainty to provide ongoing support to the sector, delivering complete building solutions across the UK. In addition to its renowned EUROSIX fibre cement roofing sheets, Briarwood also supplies an entire range of complimentary building components including: Metal Profiled Sheets, GRP Rooflights, Timber Purlins, Steel Purlins and Sections, Fixings and Obsolete Profiled Sheets. As well as the UK's largest supply of Brett Martin, Hunter and Aquaflo PVC Rainwater Systems.

The ability to deliver an all-in-one supply of fibre cement sheets and associated building components to the industry allows businesses to benefit from using one single supplier. Within the current economic climate, many buyers have welcomed the cost savings associated with using Briarwood as the only supplier for all their roofing solutions and have valued the support from the Briarwood team to facilitate their projects.

Significant investment in Briarwood's infrastructure and ownership of the complete supply chain from the factory floor direct to sites



nationwide has enabled the company to continue to supply the industry throughout this turbulent time. The family business has proven it has the flexibility to adapt in order to support its customers over the past 40 years and it is ready to continue delivering this same high level of service post Brexit into 2021 and beyond.

For your complete building solution contact Briarwood on **01934 641446** or visit briarwoodproducts.co.uk.



Latest Industry Updates

Furlough Scheme Extended

The **Coronavirus Job Retention Scheme** has been extended until 31 March 2021. Furloughed employees will receive 80% of their salary for hours not worked, up to a maximum of £2,500 per month, with employers paying only National Insurance and pension contributions. The Job Retention Bonus will no longer be paid in February and a replacement will be provided at the appropriate time.

The grant available under the Self-Employed Income Support Scheme will now be increased to 80% of trading profits for the three-month period covering 1 November to 31 January, capped at £7,500. The level of the second grant covering 1 February until 30 April will be confirmed in due course.

Supporting Jobs in Construction

The results of the second cross-industry 'People Survey', carried out by Build UK on behalf of the Construction Leadership Council (CLC) in September, provide an up-to-date snapshot of the ongoing impact of the coronavirus pandemic on the construction workforce, which will help to prioritise support for employers in line with the industry's Roadmap to Recovery.

Supporting Jobs in Construction suggests that employers are doing what they can to hold on to their people, having learned from the last recession the importance of keeping talent within the business wherever possible. Whilst there is still expected to be a reduction of 4.2% in the workforce by December, the fall in the number of graduates taken on in September was less than anticipated and overall, the number of apprentices employed is expected to increase slightly.

Construction Payment Performance

Build UK has updated its payment performance table in line with the latest results published under the Duty to Report on Payment Practices and Performance, which shows that standards of payment performance continue to be upheld during extremely challenging circumstances. Build UK Contractor members have maintained an average of 36 days to pay invoices, with 92% of their invoices paid within 60 days and 76% within terms. The Build UK table now includes over 100 of the industry's largest companies, providing a more coherent picture of payment practices within construction than ever before.

Brexit Update

There is now less than a month to go until the end of the Brexit transition period, and there will be guaranteed changes from 1 January 2021 regardless of whether the UK reaches a trade agreement with the EU. Businesses in construction need to act now to make sure they are prepared, and Build UK's **Are You Ready for Brexit?** website continues to be updated with the latest guidance, including importing and exporting products and the points-based immigration system. Visit Brexit.BuildUK.org to find out more.



Managing COVID-19 Within Contracts

Build UK has produced a simple guide to help members navigate the various guidance available on responding to commercial issues arising from coronavirus. Building on our Contract Terms Guidance, which encourages active management of risks, Managing COVID-19 within Contracts focusses on dealing with the effects of coronavirus within existing and future contracts.

A recent survey showed that over 80% of companies have unresolved issues relating to delays caused by the pandemic, and our guidance offers practical advice on working collaboratively to reach fair and reasonable settlements, enabling projects to be completed and reducing the risk of disputes and insolvencies.

Contact Build UK at info@builduk.org or follow on social media for all the latest updates:

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Kingspan Insulated Panels' RW Roof system is a factory-engineered system for very fast specification, installation and completion of a variety of agricultural and industrial buildings.

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01953 850 611
steel@acbacon.co.uk
www.acbacon.co.uk

A C Jackson Ltd

Buffer Depot, Rode Street, Tarporley, Cheshire, CW6 0EF
01270 588 841
info@acjackson.co.uk
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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

Alan Jukes Steel Framed Buildings Ltd

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01691 828 094
alan.jukes@alanjukes.co.uk
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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

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, Chulmleigh, Devon, EX18 7QH
01769 520 422
info@chrishodgson.biz
www.chrishodgsonengineering.co.uk

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01430 810 210
enquiries@colleyfarmbuildings.co.uk
www.colleyfarmbuildings.co.uk

Collins Design & Build Ltd

Unit 5, Westwood Ind Est, Pontrilas, Hereford, HR2 0EL
01981 240 682
info@collinsdb.co.uk
www.collinsdb.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

Cumbria Steel Fabrications Ltd

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01228 711 318
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www.csfab.co.uk

D G Ashley Ltd

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D6ash@aol.com

D Jones Welding

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DeVille and Lear Ltd

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Eagle Structural Ltd

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leng@xlninternet.co.uk
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yellandaccounts@btconnect.com
www.yelland-construction.co.uk

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Shay Lane, Longridge, Preston, Lancashire, PR3 3BT
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Jim.Rogerson@farmplus.co.uk
www.farmplus.co.uk

Fowler & Gilbert Ltd

Western Way, Market Drayton, Shropshire, TF9 3UY
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GLE Structurals Ltd

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07837 958 144
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01751 472 812
www.normanandgray.co.uk

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Supercraft Structures Ltd

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craig@tilkeengineering.co.uk
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info@timminsagricultural.co.uk
www.timminsagricultural.co.uk

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www.titansteel.co.uk

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01388 834 295
Michael.Hammond@cagroup.ltd.uk
www.united-products.co.uk

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www.wephillipsandsons.co.uk

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Forge Works, Ffynnon Gynydd,
Glasbury on Wye, Powys, HR3 5LX
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01249 813 225
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wilsonconstruction@hotmail.co.uk
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01633 681 710
worman.constructionltd@btinternet.com
www.worman-construction.co.uk

Yorkshire Steel Buildings (Holdings) Ltd

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eyup@yorkshiresteelbuildings.co.uk
www.yorkshiresteelbuildings.co.uk

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01284 753271
mike.bamforth@acorus.co.uk
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CB8 7QT
01638 555500
sales@ajnsteelstock.co.uk
www.ajnsteelstock.co.uk

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tom.hughes@albionsections.co.uk
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01327 300990
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0208 320 1184
ged.ferris@cembrit.co.uk
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Hatfield Barns, Saxby Road, Melton Mowbray,
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Peter@dplsteelbuildings.co.uk
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brian.cartwright@hadleygroup.com
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IAE

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MDS Industries Ltd

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Ashbourne, Derbyshire, DE6 5BW
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