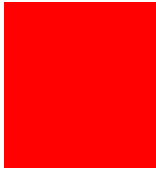
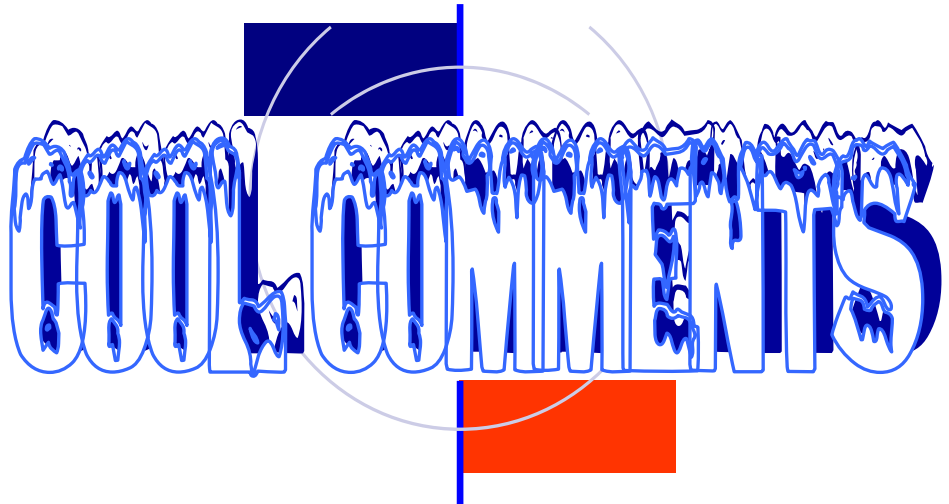


**INTERNATIONAL
ASSOCIATION
FOR COLD
STORAGE
CONSTRUCTION
(European Division)**



**Inside this issue of
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Issue 7

January 2004

Editorial

It is always interesting to look back on “events” of the past year and their impact on our industry. In many aspects it seems to me that we have a better handle on the problems plaguing our members, but how to deal with them effectively and productively is another matter. As most of you will be aware declining orders, difficult cash flow and increasing outstanding debts have taken their toll on our members, but we are considerably heartened by the fact that at least one company has arisen “phoenix-like” from the ashes and new members have arrived to maintain our numbers. Whatever happens IACSC will continue to support new innovative ideas and strongly advocate and push for improved standards at all levels within our industry. We have a duty to our members just as our members have a duty to support and uphold the aims of IACSC.

Our Technical Committee is now meeting every two months - more frequently than originally planned/scheduled - and that reflects the increase in complexity and urgency of the subjects which hit their agenda. Some of those are covered in other sections of this edition of “Cool Comments”. Our Committee members are busy people within their own companies and there is not infrequently a clash of commitments and we are very grateful for their forbearance, and for the time they afford us.

I am delighted to announce that Darren Stewart (Marketing and Technical Manager of Eurobond Laminates Ltd) has agreed to become Chairman of the Committee, and I am clear that his enthusiasm and expertise will be of great benefit. Many existing and new members have offered to help in our endeavours, and whilst it becomes difficult if we have too many members on the Committee, we would be very pleased to co-opt other representatives on a one-off basis from time to time. Our next Committee meeting is scheduled for 8 January 2004 at Princes Risborough, and we would be happy to see two extra co-opted members on that day. First come, first served. The same applies for the following meeting, planned for 16 March 2004. Just to titillate your interest our agenda items include:

Insurance Matters - Extended application of LPS 1181/1208

Self-Labeling by Contractors (IACSC/IFC Panel Labelling Scheme)

Schematic Code for Panel Manufacturers' Brochure

Revise of Building Regulations/Fire Regulations Construction Products Directive

Planning for IACSC Technical Seminar

Our Executive Committee - meets quarterly, and we are pleased to announce that Tony Wall (ISD Cold Stores) has joined the Committee. If you have any problems or points you would wish to have raised at the Committee meetings, please let me know - your views are very important to the Committee. At their recent meeting (4 December 2003) the Committee specifically stated that they wanted all IACSC (European Division) members to support and encourage the use of the IACSC/IFC Panel Labelling Scheme in all new builds/major refurbishments. Aside from the special IACSC/IFC inspection team that has been established to carry out panel labelling (see our Information Protocol No. 1) - and already this has occurred at several medium sized food companies - IACSC Contractor members can

also carry out the appropriate labelling (see also our Information Protocol on Contractors Self-Labeling (in draft) where agreed with the client. IACSC believes it is important that labelling is carried out on a standardised basis and we are supported in this by the UK Building Regulations Division, BRE/LPC and the UK insurance industry (Norwich Union, Royal Sun Alliance and AXA) and by the UK Fire Services (CACFOA Fire Safety Committee). Please address any queries on this important scheme to the Secretariat. (*Note: Panel labels can also be sourced via the Secretariat.*)

Finally, the Secretariat would like to extend our best wishes to all our members for a prosperous and successful year. We hope that clients in the temperature-controlled food industry will take the plunge and invest in refurbishments and new builds - after all we are assured by the Chancellor of the Exchequer that manufacturing industry is "buoyant" and the "outlook is improving"!!!

W J BITTLES OBE

Executive Secretary

Correction

We would like to apologise to Paroc Panel System for a mistake in their contact details in our October 2003 issue.

These should read:

Paroc Panel Systems UK Ltd

Stoney Lane

Rainhill

Prescot

Merseyside L35 9LL

Tel No: +44 (0) 151 426 6555

Fax No: +44 (0) 151 426 6622

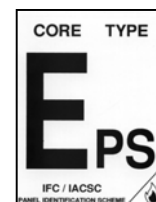
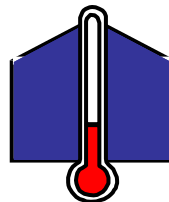
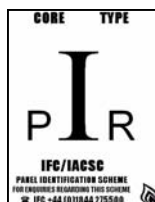
E-mail: panel.uk@paroc.com

Contact: Denis Beardmore

In our October 2003 issue we carried an article on the exothermic reaction between PVC and EPS. Please note that we are still awaiting information from various sources to provide scientific evidence about the risk of an exothermic reaction between PVC and expanded polystyrene. In the interim this is not scientifically proven.

IACSC/IFC LABELLING SCHEME

The scheme has been carried out and labelling of premises such as Safeway, Noon Foods and Excel Logistics depots.



If you have clients that may benefit from this scheme please contact, Penny Morgan, Paul McGahey, Joanna Jackson, Graham Wiles or Peter Jackman on:

Phone: +44 (0) 1844 275500

Fax: +44 (0) 1844 274002

Email: ifc@intfire.com

INTERNATIONAL
ASSOCIATION FOR
COLD STORAGE
CONSTRUCTION

Update

WELCOME TO NEW MEMBERS

We are delighted to welcome the following new members to our European Division:

Greer Engineering Ltd

Cromwell Road
Bredbury
Stockport
SK6 2RF
United Kingdom
Tel: (00) 44 (0)161 406 6543
Fax: (00) 44 (0)161 406 9665
E-mail: c.greer@btconnect.com
Contact: Colin Greer or David Roberts (Directors)

Insulated Construction Ltd

Crown House
28 Winchester Road
Romsey
Hants
SO51 8AA
United Kingdom
Tel: (00) 44 (0)1794 830 488
Fax: (00) 44 (0)1794 830 525
E-mail: info@insulatedconstruction.co.uk
Contact: Ian Sadler or Mark Lilliatt (Directors)



European Division Liaison

We keep a close and friendly contact with our Continental neighbour “Panama International” and each Secretary makes a point of attending their respective Annual Conferences, where possible. Jake Koelman (Panama’s extremely efficient and totally indefatigable Secretary-General) attended our last Conference in June 2003, and their most recent Conference was held in Bled, Slovenia in November 2003. Their agenda covered all aspects of panel manufacturing and all the attendant problems of fire tests and CE Marking of panels. Jake has a wealth of experience and expertise in the panel manufacturing industry, and is renowned for his endless patience in attending a large number of EC and various member country meetings. He is also a strong supporter of the aims and endeavours of our European Division, and we are most grateful for his help and eminently sensible advice. From our perspective a strong Panama International is indispensable to the well being of our industry and we applaud Jake for all that he does to ensure high standards in the panel industry.

Our members should note the forthcoming events page where the next Panama meeting is shown, and we know that your attendance would be welcome. Please apply to Jake Koelman (Fax: 00 32 3 218 5921)

Whilst on the theme, we would encourage more of our members to attend our US IACSC meetings, (again noted in our “Forthcoming Events”) where they will experience a warm welcome from our US membership and have the opportunity to discuss technical aspects of insulated structures in extremely salubrious surroundings. Bill Hudson and Susan Shores would very much welcome your participation - please contact the Secretariat for details of the forthcoming AGM in Miami, Florida 16-18 April 2004. Aside from IACSC members, you would also have the opportunity of meeting up with members from IARW (International Association of Refrigerated Warehouse keepers - the most influential organisation in the temperature-controlled food industry), and don’t forget that the exchange rate is extremely advantageous at this time.

Readers Letter's/Readers Letter's/Readers Letter's/Readers Letter's/Readers Letter's**Letter from Graham Hill (P&M Group)****Report on the Destruction of Coldstore Panels**

Following the receipt of Cool Comments No6 I am unable to agree with the content of the article on Blowing Agents and Recycling/Waste Disposal of Insulating Sandwich panels.

I do not disagree that certain blowing agents have a phase out date as listed 1st January, 2004, the question is over the method of disposal.

The legislation that came in the EC regulation EC 2037/2000, to my understanding, made it an offence to tip to landfill sites Insulating Sandwich Panels that contain CFC as the blowing agent. This was in place in 2000 but made mandatory from 31st December, 2001.

On removing old Insulating Sandwich Panels it may not be possible to determine who made the panels i.e. changes to original box, age of box etc. Therefore if the blowing agent is not known it has to be assumed that CFC was the blowing agent, without any other evidence, and as such the panel is therefore deemed unsuitable for landfill sites and the CFC must be reclaimed and the panel destroyed.

There is only one test which will prove if the blowing agent used was CFC this is a spectrometry test which is expensive and time consuming. Therefore if the blowing agent is unknown the Insulating Sandwich Panel must be treated as Hazardous Waste or for re-use which some can be.

At present if asked to remove a cold room, where it is unclear as to the blowing agent used, the panel is treated in one of two ways dependant upon the quantity (see flow chart). In both cases the panels end up at a destruction plant. There are a number of approved destruction plants we use ones in Scotland, Newport and Cradley Heath (details can be provided on request). ISD has been disposing sandwich panels through this route since early January 2002.

The method of destruction is the similar in all cases. The outer steel sheet is stripped off and disposed off as sheet steel. The panel core is sent through an automated machine that shreds it then the shredded panel is spun at high speed. The blowing agent gets spun to the outside and is collected and then frozen before being transferred to a refrigerant destruction plant. The shredded panel core is then reclaimed and is used as a mopping up agent.

It is therefore not impractical to destroy or reclaim PUR/PIR sandwich panels as stated in the article.

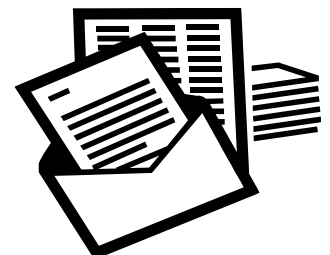
I trust this explains the inaccuracies in the cool comments column.

Graham Hill

Letter from Michael Sansom (The Steel Construction Institute)**Recycling of CFC-Blown Insulation Foams**

I am sending this e-mail to you as the relevant e-mail contact on the defra, dti and Environment Agency websites.

I am undertaking dti-funded research into recycling composite sandwich panels used in building and cold-store applications. These panels comprise two metal sheets to which insulation is bonded to give a structural panel used in the external envelopes of buildings and also internally in cold-store and food processing facilities. It is estimated that





Readers Letter's...continued

there are around 65 m2 of such panels, that contain PUR/PIR insulation, within external applications in the UK. Before 1995, the insulation in many of these panels was blown using CFC's.

Articles 16.3 in EC Regulation No 2037/2000 requires 'controlled substances to be recovered if practicable'.

I and many organisations within the construction, refrigeration and demolition industries are seeking clarification on the definition of 'practical' within this context so that insulation panels can be safely and legally recycled or disposed of without damage to the environment.

I would welcome your views and any experiences you may have in the destruction/recycling of CFC's to help clarify the above.

Dr Michael Sansom, The Steel Construction Institute.

(Note: letters to the secretariat)

Letter from Mike Ford (Eurobond)

Internal Panel Market Volumes

In issue 6 Oct '03 of Cool Comments you mention a market size of 4m m2 pa, we were rather surprised by this as our estimate is nearer 2m m2 pa. I wonder which one of us is nearest the truth?

Regards

Mike Ford, Eurobond

Editorial Introduction

In line with our policy of keeping our members informed on the progress of new products/innovatory design ideas, I asked Ivor Lees (Consultant to EDM Spanwall Ltd) to provide us with an overview of their new panel core – now designated as "XFLAM".

It's an interesting product and could have a great deal of potential. Any comments or queries please send them to Ivor – but if you wish we will also publish them in our "Readers Page" in the next issue.

Update on 'Xflam'

Many readers will be aware of the 'Xflam' product – phenolic syntactic foam incorporating EPS bead and other specialist fillers – introduced to the industry at the IACSC conference in June 2003 (www.xflam.com). This product continues to progress with interest from as far afield as Australia, China, USA and Canada. The interest is driven by concerns over existing insulation materials and their limitations in the areas of combustibility, mechanical strength, dimensional stability, environmental performance, and suitability for lamination.

Here in the UK, major panel manufacturers are involved in testing, with one specialist producer being at 'Heads of Agreement' stage on a manufacturing licence. Two licenses are expected to be confirmed in Australia by February 2004 with others presently under negotiation.

Over the last six months Research & Development on Xflam has been continuing with interesting results on fire resistance e.g. by a BS476 part 22 indicative test where the furnace was turned off after 63 minutes with the temperature on the outside of the panel rising to only 34 degrees and no evidence of a breakdown of integrity.

LPC 1181 Grade B and FM 4480 Class 1 accreditations have been confirmed for Xflam cores laminated into the EDM 2016 panel system (see www.edmspanwall.com), and other panel systems cored with Xflam are being tested at time of writing. The product is also being tested for use in the EIFIS industry where it would replace EPS as the insulation protected by render in commercial and residential projects.

Production is now underway at a pilot plant in Scotland, with planning well advanced for a larger operation here in the UK. Anyone seeking further information should contact Ivor Lees on 02893 365700 or e-mail ilees41671@aol.com.

IACSC (European Division)

Recommendations for Panel Manufacturers Schematic Brochure Contents

Introduction

Below is the “IACSC Schematic Code on Information to be contained in Panel Manufacturers’ Brochures”. This has been developed by our Technical Committee as a result of general concerns experienced as to the accuracy of information contained in various Panel Manufacturers’ Brochures. It is designed to remove ambiguities and our aim is to request all Panel Manufacturers to include the major elements of our recommendations whilst each retaining their own particular PR format.

Before we go public with our “Schematic Code” we would be very grateful for comments/additions/deletions to the Code from our members, in order that we can be certain of full support for the document - comments please by end February 2004.

Recommendations

The IACSC Technical Committee has recommended that Panel Manufacturers should include the following information/data based in headings 1-5 below in their Panel Brochures.

In particular the information on specific wall or panel ceiling panels (see appendix for separate sheets) will allow potential installers/users of the panels to assess their characteristics in relation to the proposed end-functions of the insulated panel system structure.

IACSC’s aim is to promote standardization of the information whilst allowing Panel Manufacturers to exercise their ingenuity in the brochure layout.

1. Product Specification—see appendix for sheets referring to wall/ceiling panels
 - Core material type
 - Manufacturing method
 - Adhesive used in manufacture
 - Face materials available with detailed specification
 - Thickness range
 - Weight
 - Thermal conductivity

- Sound reduction properties
 - Max span with design calculation figures
 - Panel dimensions
 - Temperature range
 - Fire ratings and fixing type
 - Tolerance
2. Detailed fixing drawings—**this must include type of stitching (internal/external) and centre measurements**
 3. Recommendations for longevity of walk-on ceiling and protection of same
 4. Recommendations for cutting and sealing apertures.
 5. Handling, storage and installation instructions

To receive a copy of the appendix (see pages 11 and 12) in electronic format please contact the secretariat.

Additional Information

Please note that we are also aware of the need to incorporate “CE Marking” information in brochures, which is due to come into force in Spring 2005.

IACSC (European Division) Web site

The IACSC web site (www.iacsc.org) will shortly be updated with the addition of a dedicated European Division section, having been successfully tested recently. This will be linked from the main IACSC web site.

Included in the European Division web site will be details of the association and its specific aims. All European Division members details will also be listed. Please do keep an eye on this page and keep us informed of any changes to your company details.

All publications available will be listed with prices and details of how to order them. The guidance notes 1-4 and past editions of Cool Comments will be freely available to download from the site.

There will also be details of the schemes (NVQ’s and the labelling Scheme) run by the association on the web site as well as details of associated organisations.

So please keep checking on the web site for the addition of our dedicated web pages.

As with the format and contents of Cool Comments, we welcome any comments/recommendations for improvements in layout or contents to the webpage.

Workshop on Evaluation of the need for the Inclusion of Smoke Production and Burning Droplets in AD B on 8 December 2003

One of the topics arising out of the consultation on the European Amendment to Approved Document B (ADB) in 2002 was the question of whether the production of smoke, debris, burning droplets and particles should be included in the criteria for construction product performance when used for walls and ceilings. With the revision of the whole of ADB in 2004 the Office of the Deputy Prime Minister (ODPM) took the comments seriously and set up a short term project led by the Building Research Establishment. To examine the need for ADB to include such performance criteria. The project is due to finish in the late spring of 2004.

The first phase of assembling published data on product performance was completed at the end of December. Input was sought from stakeholders in the topic at a workshop on the 8 December. Representatives of the stakeholders met to discuss the progress so far and to respond to the plea for more data. In addition a lively discussion occurred when the phase 2 test programme was outlined which involves 6 tests using the Small Burning Item test (well-ventilated conditions), the ISO Room test (ventilation-controlled conditions) and the Purser furnace (to look for toxic products). So far only four construction products have been identified - one of which was extruded polystyrene (unfaced). This material was not recognised by the stakeholders as a typical wall or ceiling construction product. The hunt is therefore on for three further products for BRE to test.

If the research does identify a need to include criteria for smoke and burning droplet production then there will be an impact assessment in May 2004 by telephone questionnaire. We have asked for an early sight of the questions that will be asked so we can seek your comments and then represent you, the members, when the call comes in.

The stakeholders:

- ABE (Association of Building Engineers)
- ASFP (Association for Specialist Fire Protection)
- BPF (British Plastics Federation)
- BRUFMA (British Rigid Urethane Foam Mfrs Assoc.)
- CPA (Construction Products Association)
- EPIC

- FBU (Fire Brigades' Union)
- FSDG (Fire Safety Development Group)
- IACSC
- LIF (Lighting Industries Federation)
- MCRMA (Metal Clad Roofing Manufacturer's Assoc.)
- NARM (National Assoc. of Rooflight Manufacturers)
- PFPF (Passive Fire Protection Federation)

Making the Uninsurable - Insurable

The objective of the 'IFC Gold Standard' is to lower the potential for fire to as near zero as possible, to reduce that impact of fire on the ability of the company to continue trading, and to reduce the incidents of disproportionate damage in the event of a fire. Whilst being designed for all building types, the 'IFC Gold Standard' is particularly suitable for use in structures where sandwich panels predominate. **In these buildings the implementation of many of the recommendations given in the IACSC Guide will form a major part of the strategy.**

Preventing the delamination of panels, regardless of their core type, forms a major objective in the control of disproportionate damage. Management of personnel and details of the construction are considered in-depth in the 'IFC Gold Standard' in order to reduce the vulnerability of such businesses to arson.

International Fire Consultants Ltd understand that the principles, objectives and approach incorporated in the 'IFC Gold Standard' are welcomed by most leading insurers.



Should you feel this is a useful service that your clients would appreciate details of, then please phone +44 (0) 1844 275500 and request copies of our brochure from either Paul McGahey or Joanna Jackson. Any leads, contacts or suggestions in this regard would be most appreciated.

Revision of Construction Products Directive

The European Commission will soon begin discussions with the Member States to hear their proposals for the amendment of the Construction Products Directive (CPD).

Article 23 of the CPD states:

"At the latest by 31 December 1993, the Commission, in consultation with the committee referred to in Article 19 (i.e. the Standing Committee on Construction, SCC), shall re-examine the practicability of the procedures laid down by this Directive and, where necessary, submit proposals for appropriate amendments."

At that date, and on other occasions since, the Commission Services have considered a review of the Directive. But as you know, the CPD has taken rather longer to implement than expected, arising from the need to resolve a large number of difficult horizontal technical and procedural issues. Consequently, Member States have been reluctant to amend the Directive until they have had at least some experience of its practical operation.

.....the Commission Services now intend to proceed with a full consultation on options for a revision of the CPD.

UK Consultation:

Building Regulations Division, ODPM, wishes to carry out a thorough consultation among all UK construction interests including manufacturers, practitioners, enforcement agencies and test and certification bodies. To that end European Unit of FBE - Foundation for the Built Environment Management Ltd has set up a website (<http://www.fbe.co.uk/cpd/front.page.jsp>).

This website is part of the UK consultation process on the revision of the CPD. It is intended to stimulate thoughts and ideas on how the CPD should be revised and to record them in a structured manner. The views expressed will be used to inform later stages of the consultation process and ultimately the UK's position in discussions with the European Commission Services and other Member States.

The website has a special section "Issues" in which twenty separate topics are identified, each with a brief summary and suggested points for comment which you may like to consider, record your comments in the spaces provided. One of the issues is 'Should CE mark-

ing be compulsory?'

Members are urged to visit the website and contribute to the debate. In addition we would be delighted to act as a forum on the issues as they affect you. Just email the Secretariat and we will include your comments in future issues of Cool Comments.

IACSC Publications

Guidelines for the Specification, Design and Construction of Cold Store Floors (published 1993).

Non members £55 + £5.00 p&p

Members £50 + £5.00 p&p

Design, Construction, Specification and Fire Management of Insulated Envelopes for Temperature Controlled Environments (published 1999).

Non members £120 + £5.00 p&p

Members £100 + £5.00 p&p

Fire Stable Certification Scheme for Insulated Panel Systems and Structures (published 2000; revised 2001).

Non members £45 + £5.00 p&p

Members £40 + £5.00 p&p

Model Building Specification for Design, Installation and Commissioning of Insulated Envelopes and Insulated Floors for Temperature Controlled and Ambient Environments (published June 2003).

Non members £65 + £5.00 p&p

Members £50 + £5.00 p&p

To order, forward your remittance made out to IACSC (European Division). On receipt of your payment the publications will be sent by return of post.

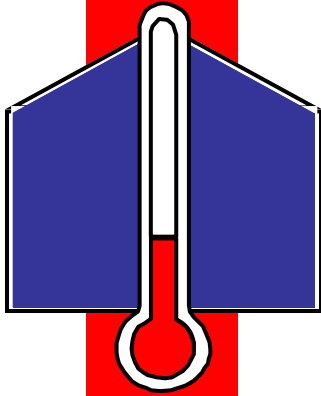
20 Park Street

Princes Risborough

Buckinghamshire

HP27 9AH

Phone: +44 (0)1844 275500



IACSC

20 Park Street
Princes Risborough
Buckinghamshire
HP27 9AH
Phone: +44 (0)1844 275500
Fax: +44 (0)1844 274002
Email: iacsc@intfire.com

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Up and Coming Events

The list below provides an overview of the forth-coming events in 2004, which will be of interest to our members.

Please note and book in your diary our **IACSC Technical Seminar will be held at the Haycock Hotel on 14/15 June 2004**. The format will be the same as in June 2003 and the Main Seminar will be held on 15 June 2004 - details of which will be issued mid-March 2004. We would hope that all our members will attend and that you will invite any design consultants, construction engineers or architects with whom you do business, since the programme will be of interest to them. If any member would like a specific subject to be included (along with a proposed presenter/speaker) please forward your views to the Secretariat as soon as possible. We already have a number of proposed presentations jostling for inclusion!!

Up and Coming Events

January

15 January

ASFP seminar: Raising the competence level of passive fire protection

Contact: +44 (0) 1252 739142

www.asfp.org.uk

27-28 January

Flame retardants 2004, London

Contact: Doreen Greenaway, +44 (0) 207 57 5047

E-mail: conferences@bpf.co.uk

27-29 January

Fire Safety Engineering Design, Principles and Practice

London

Contact: Alison Murphy, +44 (0) 1223 880016

E-mail: courses@mid-career-college.ac.uk

28 January

BSI seminar on BS 5839-1: Fire alarm systems and fire safety legislation

Contact: +44 (0) 208 9969001

E-mail: info@bsi-global.com

February

11 February

104th Anniversary Dinner of The Institute of Refrigeration, Grosvenor House, London

Contact: +44 (0) 208 647 7033

24 February

One day training course in the School of Engineering & Applied Science, Aston University: Fire Safety – Legislation and its Application

Contact: +44 (0) 121 359 3611, Course Secretary: Helen Mallinson ext 4385 or Clare Wallis ext 4386

E-mail: H.Mallinson@aston.ac.uk

Website: <http://cel.conferences.aston.ac.uk>

25 February

ASFP seminar, Manchester: Raising the competence level of passive fire protection

Contact: +44 (0) 1252 739 142

www.asfp.org.uk

March

30 March

Fire Safety in Buildings: What's new?

Contact: +44 (0) 121 359 3611, Conference Secretary: Helen Mallinson ext 4385 or Clare Wallis ext 4386

E-mail: H.Mallinson@aston.ac.uk

Website: <http://cel.conferences.aston.ac.uk>

ROOM MB129 ASTON UNIVERSITY (FIRST FLOOR, MAIN BUILDING)
FIRE SAFETY IN BUILDINGS: WHAT'S NEW ?

09.15 Registration and coffee in ROOM MB129 ASTON UNIVERSITY (FIRST FLOOR, MAIN BUILDING)

10.00 Opening by Chairman: DR JOHN PURKISS, Aston University

10.15 The Fire safety Reform Order

Contribution from ODPM

10.55 Structural Fire Design - a Simple or Holistic Approach

PROF. COLIN BAILEY, UMIST

11.35 Practical Application of Fire Safety Engineering Principles to Building Design

ALASTAIR BROWN, Divisional Director, Babcie

12.15 Discussion

12.30 ----- LUNCH -----

14.00 Modelling the Behaviour of Composite Buildings In Fire

PROF. IAN BURGESS, Sheffield University

14.35 Structural Fire Engineering In Practice

NEAL BUTTERWORTH, Buro Happold FEDRA

15.10 Making the outputs of Furnace Tests More Usable to Fire Safety Engineering

PETER E JACKMAN, International Fire Consultants Ltd

15.45 Discussion

16.00 Tea

17.00 Disperse

Telephone enquiries: 0121 359 3611 and ask for the Conference Secretary: Helen Mallinson ext 4385 or Claire Wallis ext 4386. Fax: 0121 333 3389. Email: H.Mallinson@aston.ac.uk Website: <http://cel.conferences.aston.ac.uk>

Our conferences are intended to contribute towards the CPD requirements of the relevant professional institutions. Please Note that the programme is subject to change without prior notice. The views expressed at the conference are personal to the speakers and not necessarily Aston University. Conference Organiser: Dr M Sadegzadeh, Ext. 4359

✂.....

Please send all correspondence to:

The Conference Secretary, Civil Engineering, Aston University, Birmingham, B4 7ET

Please reserveplace(s) at the conference **Fire Safety in Buildings: What's New?, 30 March 2004**

Delegate name(s).....Company.....

Address.....

Tel:Do you require a vegetarian or other special lunch? **YES/NO**. Do you require parking space? **YES/NO**

Do you wish to be invoiced? **YES/NO**.

I enclose a cheque for £....., being £135 per delegate, covering attendance, papers, 3-course lunch and refreshments during the day. (Cheques payable to

Aston University) Signed..... Date

IACSC (European Division) Recommended Data for Wall Panels

International Association For Cold Storage Construction

Product Specification and Technical Data Information

Core Material Type	ie Rockwool/PIR etc
Type of Manufacture	
Type of Adhesive	
Blowing Agent	

Face Materials Availbale		Gauge of Steel	Face Material Coating Thick-
Foodsafe Laminate			
Foodsafe Polyester			
HPS200			
PVF2			
Antibacterial Foodsafe Laminate			

Density	kg/m2
U Value	w/m02
Sound	SRI (db)

Walls	Density Range	Panel Weight	U Value	Sound Prop-	Max Span	Width	Max Temp	Min Temp	Fire Ratings BS476 e30/30	Stitch Type at ctrs	Cert No's LPS1208	Stitch Type at ctrs	LPS1181	Stitched
	50													
	75													
	100													
	125													
	150													
	175													
	200													
	225													
	250													

Tolerances on Finished Panel

Length	
Width	
Thickness	

Maximum Span Figures

UDL	
Point Load	
Deflection	

Reaction to fire : Give brief description

Design criteria calculation figures used for maximum spans listed above

ACSC (European Division) Recommended Data for Ceilings Panels

International Association For Cold Storage Construction

Product Specification and Technical Data Information

Core Material Type	ie Rockwool/PIR etc
Type of Manufacture	
Type of Adhesive	
Blowing Agent	

Gauge of Steel	Face Material Coating
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Density	kg/m ²
U Value	w/m ²
Sound	SRI (db)

Face Materials Available	
Foodsafe Laminate	
Foodsafe Polyester	
HPS200	
PVF2	
Antibacterial Foodsafe Laminate	

Thickness	Density Range	Panel Weight	U Value	Sound Prop-	Max Span	Width	Max Temp	Min Temp	Fire Ratings BS476 ie30/30	Stitch Type at ctrs	Cert No's LPS1208	Stitch Type at ctrs	LPS1181	Stitched
50														
75														
100														
125														
150														
175														
200														
225														
250														

Reaction to fire : Give brief description

Tolerances on Finished Panel	
Length	
Width	
Thickness	

Maximum Span	
UDL	
Point Load	
Deflection	

Design criteria calculation figures used for maximum spans listed above