11% of UK construction spend is on fit-out

Buildings may have 30 fit-outs during their lifecycle

FIS

Representing the finishes & interior sec

Ongoing vetting of contractors

Setting higher standards

Driving quality through a focus on

PRODUCT
PROCESS
PEOPLE

www.thefis.org

FIS Heritage and Fibrous plastering Working Group meeting 19 October 2021

Members are reminded they agree to conform to FIS policy to comply with the Competition Act 1998. The meeting is convened and held in accordance with the Memorandum and Articles of Association of FIS and the regulations made by the Association. The Association has in place procedures to ensure compliance with all relevant competition laws and the meeting is subject to those procedures

Overarching objectives

The Heritage and Fibrous Plastering Working Group is a dynamic forum established to:

- Review, maintain and set technical standards.
- Support innovation and promote best practice.
- To ensure the sector has a competent workforce with sufficient skills and knowledge now and in the future.
- Monitor and help manage sector risk.
- Educate and inform clients and specifiers, helping members to win work.

Agenda: Heritage and Fibrous Plastering Working Group

1. Welcome,

2. Competition Act Reminder

3. Update on legislation and standards

   BREXIT Construction Products Regulation (CPR) the supply chain and UK CA marking

   Building Safety Bill

4. Market update

   Key findings from the FIS Fibrous and Heritage Plastering State of the Market Survey

5. Key activities and projects

   Agree scoping and working group to contribute to a new guide on the Repair of lath and plaster ceilings

   Fire tests for GRG ceilings when used for compartmentation Discussion

Agenda:

6. Skills and competence in the workforce

   Shortages, Qualifications and Competency in the workforce

7. Sustainability

8. Events

   Workplace 4-5 November 2021, 2022?

9. AOB (must be submitted in advance of the meeting)

10. Date and time of next meetings Spring 2022 TBC

    We hope you can join us here for a light bite and drink afterwards

Papers issued with the Agenda

- ▪ Specifiers guide to Ceilings and Absorbers
- ▪ Ceiling fire performance
- ▪ Site guide- Suspended ceilings can be downloaded
- ▪ Resource Efficiency Action plan (REAP)
- ▪ The Competency Framework Career and Qualification Path
- ▪ Apprentice guide for employers

FIS Update:

FIS Update:

- Shortages (labour and materials)
- Brexit
- Design Liability - Escalating cost and availability of insurance
- Building Safety Bill
- Post Pandemic/Brexit Construction

  - Fair contractural practice and better habits
  - Productivity
  - Sustainability
  - Innovation (Digitalisation/Offsite)
  - Value led procurement/Modern Methods of Procurement

Draft Building Safety Bill

* Royal Assent (RA) is anticipated 9-12 months after introduction.
We intend for provisions marked RA + 12 months to come into force within six to twelve months of Royal Assent.
We intend for provisions marked RA + 18 months to come into force within twelve to eighteen months of Royal Assent.

Building Safety Bill & Transition

Market update

V-shape Construction Recovery So Far…

What sectors do you typically operate in?

How has fibrous plaster turnover changed in the past 12 months?

How do you anticipate fibrous plaster turnover will change in the next 12 months?

Breakdown of Workforce

How do you see this changing over the next 12 months?

	Increasing	Static	Decreasing
PAYE	33%	67%	0%
CIS	25%	75%	0%
Apprentices	17%	83%	0%
Agency/Labour Gang	33%	67%	0%

Key Concerns?

	Not a problem	Some Concern	Serious Concern
Pipeline of work	42%	50%	8%
New immigration rules	73%	9%	18%
Aging workforce	42%	33%	25%
Workers being attracted to work in the film industry	58%	17%	25%
Skills shortages	33%	17%	50%

Key Concerns?

	Not a problem	Some Concern	Serious Concern
Lengthening lead times for materials	25%	33%	42%
Material price inflation	8%	42%	50%
Availability of insurance	67%	25%	8%

How has fibrous plaster turnover changed in the past 12 months?

Key activities and projects

Repair of lath and plaster ceilings

Repair of lath and plaster ceilings

Sarah Mayfield is a building conservator, sculptor and ornamental plasterer. She works on heritage building projects providing condition surveys, repair and bespoke ornament.

All projects are individually researched, designed and managed in Sarah’s studio and on-site.

Repair of lath and plaster ceilings

Information

KNOWLEDGE HUB

The Conservation of Plaster Ceilings

Repairs to plaster ceilings in historic buildings can lead to further damage and as some of the processes are irreversible it can lead to catastrophic failures and loss.

Some processes uses involve additional load and large quantities of water which have the potential to weaken the bond between the plaster surface and any decoration on it and the increased levels of moisture in the surrounding timber structure from this conservation method could also create the perfect atmosphere for beetle and fungal attack.

There are many systems being used all of which might be used in certain circumstances, specialists should consider the issues with each project before choosing the system for that specific project and implementing it.

The following systems offer options, but specialists and engineers should always consider alternatives based on good and shared practice through the FIS heritage plaster working group and the Worshipful company of Plaisterers

System 1 Plaster Bridge.

For use on a ceiling that has a highly decorated surface below.

Inspect the ceiling for lost and broken laths

Using a fine reciprocating saw the damaged lath between 2 joists is cut at each end carefully until it can be removed.

The space left by the lath removal should be well vacuumed clean and free from dust.

The ceiling plaster exposed can be primed with a dilute solution (10 to 1) of Primal.

A strip of stainless steel mesh the same width as the lath and long enough to extend up the side of each joist by 150mm can now be placed onto the back of the ceiling and attached at each end to the joists using stainless steel screws and washers.

http://www.oldhouserepairs.co.uk/index.html

Image required

A small soft mix of gypsum can now be poured just onto the back of the mesh until it flows through the mesh onto the ceiling and just enough to embed the mesh into the plaster.

With careful placement of the mesh the depth of the gypsum can be kept down to around 6mm.

This system works well and as it is only placed in isolated areas the ceiling plaster and any decoration on it can still breathe. Only a small amount of water is introduced, and this is inhibited from passing into the plaster by the primer.

It is reversible and adjustable as one can simply move/remove the screws and washers.

It is very light and attaches a reasonably large area of ceiling to each plaster bridge.

System 2 Lightweight Suspension

Drill a hole into the plaster of the ceiling to a diameter of 7mm and a depth of 10mm but not right through to the decorated surface below.

This hole most be well vacuumed clean and irrigated with with a dilute solution (10 to 1) of Primal.

Directly above the hole fix a strip of stainless steel firband either above the joists in a roof space or between the joists if under floor boards.

A blob of resin can be pressed into the hole filling it and then immediately place a length of 5mm threaded stainless steel bar into it and through the firband with 25mm protruding through it.

- **Philip Gaches**

Six methods

- Plaster bridge
- Lightweight Suspension
- Screws and Washers
- Plaster Nib replacement
- Wire Staples
- Acrylic Resin Injection

Repair of lath and plaster ceilings

Historic England

John Stewart

- Content
- Structure
- Production process

Repair of lath and plaster ceilings

Historic England

John Stewart

Content

- Short introduction – Context, Process of significance, condition and risk assessment conservation principles and legislation

Repair of lath and plaster ceilings

Historic England

Content

- Text should include a description of each technique and appraisal of it
- Diagrams
- Technical options
- Other techniques
- Methods of securing the ceilings prior to repair

Repair of lath and plaster ceilings

Historic England

Structure

- For description and appraisal of each technique, information within a table is more accessible than a prose document
- Within a table, each technique could be described by the following headings: diagram, structural context, technique description, appraisal, when to use, when not to use.

Repair of lath and plaster ceilings

Historic England

Production process

- Peer review process

    1. Within membership

    2. ‘public review’ to critical stakeholders

Using BSi methodology

Working Group

Those involved will be acknowledged in the document.

Sarah will be acknowledged as writing it on behalf of the FIS Heritage and Fibrous plastering working group.

Repair of Lath and plaster ceilings - FIS publication

R. SARAH MAYFIELD MSC.
HISTORIC BUILDING CONSERVATION & SCULPTURE
MAYFIELD HERITAGE

Wotton House, Bucks.. - Soane's tribune. 1820

Georgian Society Award.

Clandon Park- 1730s

FIS - HISTORIC CEILINGS AIMS & OBJECTIVES

Brighton Assembly Rooms (Dome). WWI.

SURVEYS - BRIEF OVERVIEW

Key

- Crack <1mm
- Crack 1-2mm
- Crack >2mm/ loss
- Water staining
- Modern repairs
- Minor deflection
- Moderate deflection
- Strong deflection

North

Drawing title:
STUDY - CEILING SURVEY

Project:
BORDE HILL HOUSE

Client:
SAVILLS ESTATES.

Address:
BORDE HILL HOUSE, RH16 1XP

Survey date: 3RD JULY 2017

Drawing number: 162-01

Drawing scale: NOT TO SCALE
REFLECTIVE PLAN.

Revision:
1 - 10/7/17

Drawn By:
R. SARAH MAYFIELD

R. SARAH MAYFIELD MSc APC
BUILDING CONSERVATION & SCULPTURE

22 GORDON ROAD, SHOREHAM-BY-SEA, BN43 6WE
TEL. 07968 430240
EMAIL: sarah@sculptress.net
WEB: www.sculptress.net

St Mary Abchurch, City of London. 1687. Wren.

HISTORY - BRIEF OVERVIEW.

Moulded fragment - Fishborne Roman Palace. 75AD

HIERARCHY OF SIGNIFICANCE

Norbury Park House - 1740

Methods of suspension

- Pros & cons of each method

- Process of decision making
  - Safety
  - Resources
  - Access both sides
  - Materials
  - Longevity
  - Structural
  - Reversible

- Level of values
  - Age
  - Significance
  - Listing
  - Safety

Metal perforated plate 3x40mm
Over drilled hole through underside of weather face
Threaded rod 12mm
6mm treated MDF box trough
Foam support to profile of ornament
Metal perforated plate
Bolted top and bottom

LIKE FOR LIKE REPAIR - WHEN APPROPRIATE

Charles Street, Mayfair. - 1744 & 2011. Grade I. Isaac Ware

Materials to include?

- Compositions
- Carton Pierre
- Paper mache
- Lincrusta

- Choice of mortars
- Hot lime/ putty/ nhl/ hydrate?
- Gypsum strengths
- Additives

- Finishes
- Decoration

POTENTIAL PARTNERS & ENDORSEMENTS

Historic England

S·P·A·B

IHBC INSTITUTE · OF · HISTORIC · BUILDING · CONSERVATION

Brighton Assembly Rooms (Dome). WWI.

Repair of lath and plaster ceilings

Discussion and volunteers and
Suggested contacts.

Fire resistance tests for a GRG ceiling

Fire resistance tests for a GRG ceiling

60 minute Fire Resistance test

BS 476-21:1987 Fire tests on building materials and structures. Methods for determination of the fire resistance of loadbearing elements of construction (incorporating corrigendum No. 1)

Fire resistance tests for a GRG ceiling

Reaction to Fire
A2

BS EN 1716 and BS EN 13823 (SBI).

Fire resistance tests for a GRG ceiling

Reaction to Fire
A2 (target)
BS EN ISO 1716:2018
Reaction to fire tests for products.
Determination of the gross heat of combustion (calorific value)

and BS EN 13823 (SBI).
Reaction to Fire Test for Building Products

Fire resistance tests for a GRG ceiling

- agree the formation of a group
- agree to raise sufficient cash to fund the cost of carrying out a fire resistance test on a GRG fibrous ceiling, and a reaction to fire test of a sample panel of GRG plaster.
- agree the governance of the group
- agree the appointment of an independent expert to conduct the tests on behalf of the group.

Fire resistance tests for a GRG ceiling

- agree the formation of a group
- agree to raise sufficient cash to fund the cost of carrying out a fire resistance test on a GRG fibrous ceiling, and a reaction to fire test of a sample panel of GRG plaster.
- agree the governance of the group
- agree the appointment of an independent expert to conduct the tests on behalf of the group.

Initially the estimate to carry out both projects is £40,000.

Skills and Competence in the Workplace

https://www.constructionnews.co.uk/data/subcontractor-worries-dominated-by-labour-and-material-shortages-02-09-2021/

NEWS KEY TOPICS AGENDA BUILDINGS CIVILS DATA EVENTS CONTACT JOBS SUBSCRIBE

DATA

Subcontractor worries dominated by labour and material shortages

02 SEP 2021 | BY DAVID PRICE

st challenge facing subcontractors.

Advertisement

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Skills

Home / Latest News / Economy / Labour shortages could continue for two-years, CBI warns

Economy

Labour shortages could continue for two-years, CBI warns

As such, the CBI has put forward three actions the government can do to try and alleviate the current challenges

Lewis Catchpole · 2 weeks ago · 2 minutes read

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For Competency's SAKE

OBJECTIVE:

COMPETENCE: To ensure the finishes and interiors workforce has access to sufficient skills and knowledge to meet the needs of its clients in terms of productivity, safety and quality - now and in the future.

GOALS:

RECRUIT: Attract 2,500 new entrants to the sector per annum

QUALIFY: Support a more consistent and robust pathway into the sector underpinned by a qualification and assessment landscape that meets the needs of the industry

DEVELOP: Increase competence of the existing workforce and improve the culture of life-long learning

ENGAGE: Help employers to access funding and improve engagement in training

FIS SKILLS & COMPETENCY FUNNEL: PATHWAYS INTO CONSTRUCTION

PEOPLE
Skills
Attitude
Knowledge
Experience

Skills and Competence in the workplace

CSCS Card Registrations

Solid Plasterers:

- 13540 Blue card holders
- 2274 Gold card holders

Heritage: 3 Gold Cards

Fibrous Plasterers:

- 319 Blue card holders
- 294 Gold card holders

Heritage: 4 Gold Cards

Skills and Competence in the workplace

- Annual Recruitment Requirement of 800 new entrant Plasterers
- Approximately 30 new entrants Fibrous plaster per year to 2025.
- In England 36 Training Providers delivering training for Apprenticeships.
- Plasterer ST0096 = 860 registered on the 3 year programme, Scotland and Wales unknown

Qualifications Available for Heritage Plastering

Vocational Qualification outcomes:

- Level 2, embedded in Plastering, 5 Awarding organisations.
- Level 3 Heritage Skills Plastering, 3 Awarding Organisations

Apprenticeships

- No Apprenticeship for Plastering Heritage Skills.

Consensus took place between 14 June and 15 August 2021, with the Levy Proposals supported by two out of every three employers who are likely to pay.

Consensus consultation with employers likely to pay Levy under the Levy Proposals for 2022 – 2025 takes two paths. Firstly, collating the views of 14 Prescribed Organisations (POs) that speak on behalf of their Levy paying members and, secondly, a representative independent survey of employers that are not members of a PO. Results from the POs and the survey are weighted to ensure all employers are represented equally.

© CITB

Prescribed organisations

PRESCRIBED ORGANISATIONS

11 AGREED

Build UK
British Woodworking Federation (BWF)
Civil Engineering Contractors Association (CECA)
Construction Plant-hire Association (CPA)
Federation of Master Builders (FMB)
National Association of Shopfitters (NAS)
National Federation of Builders (NFB)
National Federation of Demolition Contractors (NFDC)
Scottish Building Federation (SBF)
Scottish Decorators Federation (SDF)
Scottish Plant Owners Association (SPOA)

3 DISAGREED

Finishes and Interiors Sector (FIS)
Hire Association Europe (HAE)
Home Builders Federation (HBF)

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Sustainability

Sustainability – A path to net zero…

Informing Design

Increasing understanding and expertise

Setting targets and standardisation

A sharing network

Barbour ABI

Construction Leadership Council

SUPPLY CHAIN SUSTAINABILITY SCHOOL

FIS Sustainability Champion.

Flavie Lowres

Events

November 2021

Calculating your organisation's carbon footprint

Workspace Show 4-5 November, London

Operable Wall working group – 3 November

FIS Awards Lunch – 5 November 2021

SFS working group – 11 November

Events

- FIS Contractor Awards 5th November 2021
- 2022 Awards back in June, entries close 31st October
- New training awards in partnership with the Worshipful Company of Plaisterers in November 2022
- Scottish Awards return - September 16th 2022
- Webinars ongoing

AOB

- **Historic England fibrous plaster research and publication update**

AOB

Historic England fibrous plaster research: Update

After six years of research, this project is nearing completion. It has consisted of:

- Materials testing at the Department of Architecture and Civil Engineering, University of Bath
- Writing commissions from fibrous plasterers and other conservation professionals
- Historical research by John Stewart

AOB

- **Historic England fibrous plaster research: Update**

This material is being assembled into a publication entitled:

Fibrous Plaster: History and Conservation.

It will be published in 2022 by the University of Liverpool Press, the external publisher of Historic England.

This will be the first thorough publication on fibrous plaster, at some 250 pages.

Next meeting