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CWCT AGM and Members' Meeting 2023

Building Safety/Fire
Challenges and opportunities during Refurbishment/Recladding

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Agenda – Building Safety/Fire

Time	Title	Speaker
10.30	The Building Safety Act	Dr Hywel Davies, CIBSE
11.00	Joint Competence Initiative	Neville Grunwald, Wates
11.30	Coffee	
11.50	Fire engineering of facades	Iain Gray, BB7
12.20	CWCT fire guidance update	Alan Keiller, CWCT
12.50	Discussion	
13.00	Lunch	

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**Agenda – Challenges and opportunities during refurbishment/
recladding**

Time	Title	Speaker
14.00	Why refurbish? The client view	Alan Bunting, British Land
14.25	A circular journey	Claire Tribe, McLaren
14.50	Refurbishment considerations	Tony McManus, FMDC
15.15	CWCT refurbishment guidance	Hugh McGilveray, Eckersley O'Callaghan
15.40	Discussion	
15.55	Closing remarks	Saverio Pasetto, Skanska David Metcalfe, CWCT
16.00	End and tea	

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Saverio Pasetto
CWCT Chairman

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Richard White
Finance Director

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CWCT Update

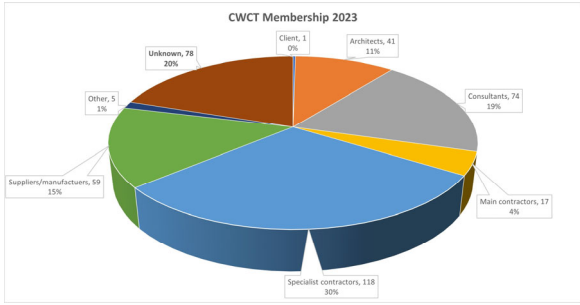
David Metcalfe
Director

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Membership

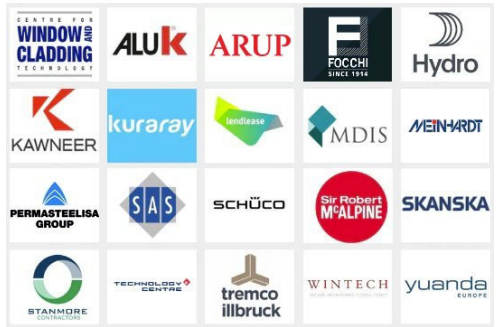


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Communication

- ▶ CWCT website

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CWCT Monthly Update

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Latest articles

See below for details of our latest articles and published guidance.

Embodied carbon methodology - user surveys

Details of two surveys regarding our embodied carbon methodology and the development of a standardised tool for calculating the embodied carbon of façade systems. [More](#)


CWCT/SFE fire guidance - new issue published

The revised guidance reflects the recent changes to the regulations and also the feedback that we have received since the guidance was first published. [More](#)


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Courses – CWCT short courses



Requested formal
feedback from delegates

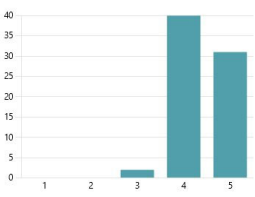


73 responses received

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Courses – CWCT short courses




Course	Satisfaction Score
1	0
2	0
3	5
4	40
5	30

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Courses – CWCT short courses

- ▶ What next?
- ▶ How should we respond to the Building Safety Act/competence requirements/the JCI etc?
- ▶ Your feedback required.



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Ongoing work

- ▶ Fire
- ▶ Technical Notes
- ▶ Health and Safety
- ▶ Standard for systemised building envelopes
- ▶ Sustainability

How to calculate the embodied carbon of facades: A methodology

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Fire

- ▶ CWCT/SFE guide
 - ▶ New issue recently published
- ▶ TN98 update
- ▶ Government funded research
- ▶ IFE/FIA special interests group

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Technical Notes/Updates

- ▶ Published in the last year;
 - ▶ TN101 – Investigating water leakage through the building envelope
 - ▶ TN102 – Decision tables for site watertightness testing of walls
 - ▶ TN103 – Test samples for stick curtain walling
 - ▶ TN104 – Cladding test specimens
 - ▶ TN105 – England 2021 Building regulation overview – Energy performance
 - ▶ TN112 – Overhead glazing (supersedes TN68)
- ▶ TU25 – Pressure equalisation of open jointed rainscreen

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Technical Notes

- ▶ Recently published;
 - ▶ TN106 – Fundamentals of heat transfer (supersedes TN46)
 - ▶ TN107 – Thermal transmittance (U-values) for built-up walls
 - ▶ TN108 – Thermal bridges, Psi and Chi values
 - ▶ TN109 – Thermal bridges with SAP and NCM calculations

78. Greater thermal glass performance (Ug) highly reflective frame materials, such as aluminium, a design thermal break will be more effective than a design frame. Aligning the vertical edge of frame to a greater frame depth results in a greater thermal break.

The images below show a comparison between a 120mm deep window frame aligned over the internal insulation and a 60mm deep window frame aligned over the external insulation. As can be seen, the deeper frame keeps the cavity window temperature a greater distance from the backdraft and reduces the heat transfer.

79. Continuous external insulation (apertures) insulation interrupted by floor slabs or other components, is a bridge for much insulation outside of the building envelope in insulated thermal bridge.

The images below show two SPS walls with the same U-value but one with SPS wall with insulation outside of the aperture only and a hybrid SPS wall with a combination of insulation within the gap panels and some insulation outside. As can be seen in the images, the floor slab through the insulation between the studs resulting in greater heat transfer as depth.

80. Insulation location is key to window frame. Insulation location is key to window frame. Insulation location is key to window frame.

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Technical Notes

- ▶ In preparation;
 - ▶ TN79-TN?? – Interfaces
 - ▶ TN91 – Structural performance of systemised walls – bracket calculations
 - ▶ TN100 – Methods of testing glass balustrades
 - ▶ TN110 – Designing building facades to manage the risk of surface condensation and mould growth
 - ▶ TN111 – Designing building facades to manage the risk of interstitial condensation

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Façade Health and Safety

- ▶ Launched earlier this year

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Façade Health and Safety

- ▶ 5 topics published so far
- ▶ Comments on the published topics welcomed
- ▶ Feedback on requested for further topics.

DO WALLS NEED TO RESIST BARRIER LOADS WHERE THE WALL DOES NOT SEPARATE AREAS AT DIFFERENT LEVELS?

Jul 11, 2023 0 comments

Guidance on barrier loading requirements on facades. Click for further details and to comment.

Read more →

SHOULD OUTWARD OPENING WINDOWS BE USED IN HIGH RISE BUILDINGS?

Mar 27, 2023 0 comments

Consideration should be given to the safety of outward opening windows. Click for further information.

Read more →

ARE BONDED BRICK SLIP CLADDING SYSTEMS SUITABLE FOR USE ON A FAÇADE?

Mar 10, 2023 0 comments

Failures have occurred where bonded brick slips have fallen from facades. Click here for further guidance and to comment.

Read more →

Part 1 Scope, terminology, testing and classification

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Standard for systemised building envelopes

- ▶ Updating the CWCT Standard
 - ▶ A huge task!
- ▶ Your feedback is welcomed
 - ▶ Issues with the current Standard
 - ▶ Omissions from the current Standard
- ▶ Please email cwct@cwct.co.uk if you would like to provide feedback.

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Sustainability

- ▶ Publications
- ▶ Workstreams
 - ▶ EC surveys (see 'Latest news')
- ▶ Other activities
- ▶ <https://www.cwct.co.uk/pages/sustainability-1>



How to calculate the embodied carbon of facades: Worked example



Facades and the race to Net Zero Carbon




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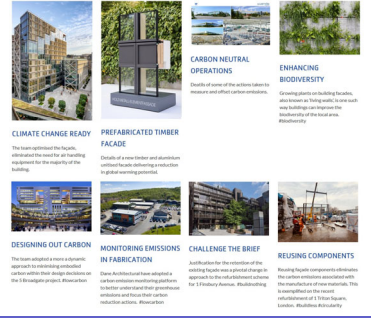
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Sustainability stories

- ▶ Sustainability stories
 - ▶ 'A collection of short stories highlighting great work at the intersection of sustainability and facades. Our members' stories curated by the CWCT'
 - ▶ Tell us what you are doing to improve the sustainability in your company or on your project
 - ▶ Not just about carbon
 - ▶ **Inspire others!**
- ▶ <https://www.cwct.co.uk/pages/sustainability-stories>

SUSTAINABILITY STORIES

A collection of short stories highlighting great work at the intersection of sustainability and facades. Our members' stories curated by the CWCT. Find them now or write your own by completing the form below and sending it to sustainability@cwct.co.uk




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Contact details

- ▶ If you have any comments/ideas etc, please get in touch;
- ▶ cwct@cwct.co.uk



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