



**Minutes of the meeting of the Fan Manufacturers Association  
on Thursday 20 February 2024  
at the FETA offices in Hare Hatch**

by email 26.2.2024

**Present**

Alan	Macklin	Chair	Alan Macklin Associates	Z
Tom	Koochitt		Air Vent Technology Ltd (part of Vectaire Group)	Z
Noel	Murray		Airflow Developments Ltd	Z
Geoff	Lockwood		ebm-papst UK Ltd	Z
Dan	Hopkins		ebm-papst UK Ltd	Z
Phil	Kirkham		Elta UK Ltd	F
Chris	Yates		FETA	F
Andy	Cardy		Flakt Group UK Ltd	Z
Iain	Kinghorn		Flakt Woods Ltd (Woods Air Movement)	Z
Greg	Llewellyn		Nicotra Gebhardt Ltd	F
Tony	Breen		Nuaire	Z
Gareth	Cook		Torin-Sifan Ltd	Z
Andrew	Glover		WEG (U.K.) Limited	Z
Charles	Halstead		Woodcock & Wilson Ltd	Z
Michael	Williams		Ziehl-Abegg UK Ltd	Z
Paul	Cowell		Ziehl-Abegg UK Ltd	Z
Michael	Duggan	Secretary	FETA	F

*F= at FETA; z = via Zoom*

**1 Welcome by chairman and introducing any new members or guests**

1.1 Membership

If joining remotely, members were asked to ensure their name was correctly displayed as we use that for the minutes.

**2 To note the FETA Competition Law Guidelines and Guidelines to FETA committee procedures**

The **FETA Competition Law Guidelines** and the **Guidelines to FETA committee procedures** are available on <https://www.feta.co.uk/members-area/competition-law-and-committee-guidelines>. Attending the meeting will be taken as members' acknowledgement of the guidelines' existence.

**3 Minutes of the meeting held on 12 Dec 2023 (circulated by e-mail and on the FETA web site [www.feta.co.uk/members/committee-minutes](http://www.feta.co.uk/members/committee-minutes))**

The minutes are prepared in accordance with the Guidelines to FETA committee procedures.

3.1 Approval as an accurate record

Minutes are available to view/download at <https://www.feta.co.uk/members-area/committee-minutes>.

### 3.2 Matters arising not covered elsewhere on the agenda

CE/UKCA Marking – members concerns

EN12101-3 smoke fans + VSD reduced speed usage

Succession planning

## 4 Membership applications / renewals

### 4.1 Applications –

**4.2 Renewals** – the FMA criteria form is a condition of renewing membership for the 2024 renewals. Request for a return of the 2024 form was issued on 31 January. All members, including the 4 suspended members from 2023, have until end March to return the 2024 form to remain a member.

As of 19 February, 9 out of 30 have made the return, including one of the suspended members from 2023.

MD will do a reminder after this meeting.

**Action: MD**

### 4.3 Complaints procedure

At the December meeting it was suggested to look at the SCA procedure and look to adopt a similar one as an FMA procedure. MD circulated the SCA one and ask members to review and decide on a procedure at the next meeting. (email sent 14.12.2023).

- FMA to decide whether to adopt the SCA procedure, and
- If FMA does adopt the procedure, decide on an assessment sub committee

It was felt a group of competitors judging a member could be antagonistic and would be a negative way to proceed. It was felt a better approach was to keep it to a simplified “in-house” procedure.

A simplified procedure would be preferred:

- a) Complainant Write to Mike
- b) Mike writes to the member and gives 30 days to clear up
- c) If resolved OK; if not resolved suspend member and refer them to OPSS for independent scrutiny.

Rather than use members to do the scrutiny, pass this onto properly independent organisation such as OPSS to judge compliance.

Although the more legal procedures would not be required in most cases, it was felt we still needed them for any complaint that was not resolved, but moved to Annexes so the “procedure document” is far easier to read and use.

*A point to note is – ALL of the tens of complaints received and actioned by the SCA have been resolved by the simple approach to the member concerned.*

MD was asked to go through the lengthy SCA procedure and strip it down to the basics

and move the more legal processes into annexes.

**Action: MD**

## **5 Connectivity/IOT/SRI**

Monitor progress of Connectivity/IOT/SRI - potential usage for servicing of smoke fans and related products. Ian Andrews does regular updates on this.

## **6 Regulations**

### **6.1 Revision of EU Fan Regulation EU327**

Final draft regulation has passed regulatory review and is generally as anticipated.

A 2% tolerance has been added to the rotational speed for Market Surveillance Authorities purposes which may create issues.

Publication in OJEU planned to be mid 2024 with mandatory enforcement expected in 2026.

Definition of “safety critical fan” covers explosion fans only. It was felt it may be better to also include smoke control fans.

The ISO document recommends  $\pm 10\%$ .

GL invited any member with comments to write to MD who will pass them on as the EU may issue a corrigendum on this issue.

### **6.2 EU Regulations for ventilation units EU 1253 and EU 1254.**

Due to the enormous number of queries raised the project has been delayed and is scheduled to re-start in summer 2023 and completion now expected to be 2025.

### **6.3 ATEX Directive – EN 14986 revision complete and publication expected in April.**

Charles Halstead has reviewed the FMA’s 2-page form to see if it needed revising and he considers that it does not need revising and is good to continue using.

### **6.4 Building Regulations**

Part L and Part F of the UK Building Regulations. Scottish, Welsh and Northern Ireland review in progress. CY producing a “straw-man” response to the Part L consultation for comment.

CY will send to members today a DRAFT FETA response. CY has picked everywhere he feels the proposed changes impact members. Alan Green has done a detailed review and he generally feels the changes are OK and acceptable.

Deadline for responding back to CY is the end of February.

**Action: ALL Members**

## 6.5 Office for Product Safety & Standards (OPSS) – **Chris Yates**

UK Product Safety Review Consultation was closed on 24th October. CY put forward the FETA position after getting members to review it first. We have not received anything back from OPSS yet.

Confusion regarding UKCA/CE – Department of Trade have confirmed CE will be recognised indefinitely. Decision is pending regarding Construction Products.

CY is writing to four MPs to ask about recompense for members who have invested in UKCA to replace CE marking and now it is not taking place their investment has been for nothing. CH asked if he could write to FETA with the points affecting his company and CY encouraged others to provide evidence as well.

**Action: CY**

## 7 Standards

### 7.1 ISO/TC117 – Fans – **Geoff Lockwood / Mike Duggan**

- a) Update of developing standards – see attached update.
- b) Meeting in April 2024 will be in London again.
- c) Sponsoring a social event for delegates.

GL explained that the UK are hosting the meeting again and they will be arranging a social event for delegates on the evening between the two-day meeting. GL explained that these social events were very beneficial to the working of these standards committees, and he would encourage FMA members to consider being a co-sponsor. GL asked MD to write to members to offer sponsorship for the social. It was felt the total cost would be in the region of £1,500 so we would be looking for 3 to 6 members to sponsor.

**Action: MD**

### 7.2 CEN/TC156 Ventilation in Buildings. WG17 Fans – **Tony Breen**

FprEN 17166 (Reg 327) – work on third iteration in progress.

FprEN 17291 (Reg 1253) – waiting EU Commission.

EN 16798-1 main EPBD standard.

FprEN 17170 (Safety requirements) – will resume after 17166 resolved.

TB and GL have been working on 17166 in the past few months. Revised a few times and some major work on Annex ZA. The CEN consultant has recommended it now goes for an “enquiry” ballot again when everyone can make technical comments. This standard is important as it will guide people in using EU 327 regulation.

17291 has not had feedback from the CEN consultant yet.

#### 7.2.1 CEN/TC 156/WG 26 - c-PCR for ventilation components

A new WG 26 has been formed. GL explained. Energy embodied within the product. There are two ways to calculate a) lifecycle method which is championed by Governments, but also b) using construction products.

EUROVENT have a paid consultant looking at it. EVIA also have a consultant looking at it. Fans are included under the “components” banner.

The BSI committee for fans does not currently have a direct link into this work. So GL joined the BSI committee that is responsible for it. The WG 26 chair from Norway is being dismissive of all views within the WG that do not align with his, and most members do not agree with the chair’s stated position.

At the suggestion of BSI, *CEN/TC 156/WG 17 (Fans)* has drafted a letter of complaint. The letter seems to have been leaked and the WG 26 chair now sees that he needs to change his approach from dictatorial to one of encouraging consensus and he has said he will listen and reach consensus going forward. So, the letter seems to have done its job. But WG 17 will still send the letter officially so that it is noted and becomes official and will need a formal response from the new WG 26.

Geoff encouraged members to refer to [CIBSE TM 65 Embodied carbon in building services: A calculation methodology \(2021\)](#) as it meets most people’s requirements on embodied buildings. NM confirmed that it was a good guide and let you through the process.

### 7.3 Revision of CIBSE/FMA TM42

**Geoff Lockwood** will update on the working group’s good progress.

CIBSE are changing the way they use the Knowledge Series and they suggest that TM 42 is dealt with once the new Knowledge Series process is in place.

GL will meet with Eileen from CIBSE and take the rough draft, which is now ready, to the next stage within the CIBSE publication process.

## 8 Other fan-related organisations

### 8.1 European Ventilation Industry Association EVIA

EPBD – Multiple references to IAQ/IEQ included in the revision for both new build and renovations.

IAQ now being balanced against energy efficiency tying in BACS and SRI.

Smart ventilation system recognized as controlling IAQ in the most energy efficient way.

EVIA IAQ presentation was held on 15th February. CY will get a copy of the presentation that will be shared with members on the FETA website.

There is a market shift away from heat recovery to heat pumps.

Renovation of buildings requires incentives to upgrade ventilation systems and improve energy ratings.

Revision of Ecodesign – aim is to make sustainable products the norm in the EU.

Digital product passports providing information on environmental sustainability will be introduced – access data including BIM, compliance, product environmental footprint, chemicals, etc.

Market surveillance regulation revision expected in 2029.

CY reminded members that Ian Andrews is now consolidating the EVIA reports for members.

## 8.2 European AMCA and AMCA International

There is due to be a fan symposium in Europe in the Summer. 10 to 11 July in Germany.

## 8.3 The International fan conference [Fan2025](#)

The next fan conference is planned for 9 to 11 April 2025 at Antipolis Palais des Congrès d'Antibes, with the ISO fans meeting at the start of that week, 7 and 8 April 2025.

## 9 Training

9.1 Some general training with Dan Hopkins.

MD will arrange some dates with Dan  
Max 20

**Action: MD**

## 10 Website

Members are asked to [review the FMA website](#) from time to time and advise if any changes are needed.

## 11 Funding:

11.1 Report on balances of the FMA funds:

<b>Balance at</b>	<b>April 2023</b>
FMA Promotions/Training suspense fund	£342.10

11.2 Funding representatives to European and ISO fan meetings

No requests expected in 2024. The ISO meeting will be at BSI in London

## 12 HEVAC Council Activities

Report from FMA Chairman/HEVAC President (Alan Macklin) and second FMA delegate Geoff Lockwood.

The HEVAC Council meeting was held in September with the next meeting scheduled for 16th May.

IAQ Group – Meetings have been well attended with FETA guidance documents under review before being released.

Grenfell draft report is expected to be published in April at the earliest.

Work to upgrade the room acoustics has been successfully completed.

Future Homes and Building Standard consultation response to be submitted by 6th March.

Launching World Humidity Control Day which will have its own website. And also, an IAQ website.

### **13 Dates of next meeting**

The meetings calendar for HEVAC is available on [www.feta.co.uk/members-area/events-meetings](http://www.feta.co.uk/members-area/events-meetings).

FMA dates are:

**Tues 16 July and Tues 19 Nov**

**Dates are provisional.** Members should check the notice/agenda for the meeting which will be circulated three weeks before the meeting as dates sometimes change.

If any member would like to host a meeting, please let the secretary know.

It was agreed we should try one meeting a year which is just physical. Of the two remaining dates, it was felt the November one would be the better option.

**Action: MD**

CH offered to host a meeting at Woodcock & Wilson. Members accepted the kind offer and it was agreed to meet in November which had already been pinpointed as the one physical meeting this year.

CH mentioned that his invitation to today's meeting showed in his calendar as cancelled. CY thanked Charles for the useful feedback. We don't have the solution yet but are working on this.

### **14 Any other business**

#### **14.1 Grenfell Inquiry report**

Progress of the report was given in these two newsletters

<https://www.grenfelltowerinquiry.org.uk/news/november-2023-newsletter>

<https://www.grenfelltowerinquiry.org.uk/news/january-2024-newsletter>

14.1 CE/UKCA Marking – Discussion on members concerns.

Covered earlier in the meeting.

14.2 EN12101-3 smoke fans + VSD varying speed in the smoke mode.

Order to be raised on BSRIA (subject to final approval by the SCA) to undertake tests representing real life conditions of the fan speed varying via VSD in the event of a fire. Tests will comprise of 4kW and 30kW F300 inverter driven fans being ramped for ten cycles between 100% and 20% speed after operating at 300 degrees C for 60 minutes.

Aim is to produce a guide and have it added to the relevant standard.

14.3 Succession planning.

Alan Macklin announced his intention to retire in the Summer. He asked the Association delegates to consider volunteering to take on the role of Chair and at the same time select a vice-Chair. The post only requires a minimum of two years, and all of the admin is dealt with by the FETA staff meaning the role is not too onerous.

Please can members consider this ahead of the next meeting.

**Action: ALL Members**

It could be a good role for someone in the middle of their fan career.

Alan Macklin, Geoff Lockwood, Noel Murray and Paul Wenden, who have all been the chair of the FMA, would be happy to talk to anyone who is thinking about it.

**15 Items for next agenda**

Succession planning.

Energy Technology List - Invite Tom Lock to the July meeting to discuss with members.

Chair .....

Date .....

*(for approval at next meeting)*



## **Annex A Status of ISO/TC 117 Fans**

### **14 Ongoing projects in ISO TC 117 Fans as of 20240131**

#### **ISO/DIS 12759-1 Fans — Efficiency classification for fans — Part 1: General requirements**

This standard was published on 2023-09-07 and is now available.

#### **ISO/DIS 24660 Fans — Determination of airflow propelled through an open personnel door by a positive pressure ventilator**

Stage 50.00 FDIS registered for formal approval Since 2023-12-10

The US are leading this project and the Project Leader, Joe Brooks

The PL convened a meeting of WG 07 in late summer to resolve comments submitted during the DIS “enquiry” ballot.

With the “cancellation date” for this project approaching, the CM got agreement from ISO/CS that we could have a 9-month extension.

The FDIS “approval” files were submitted on 2023.12.08 and the FDIS stage has been registered by ISO/CS. The 8-week approval ballot will start 2024-02-09 and close 2024-04-05.

#### **ISO/CD 13351 Fans — Dimensions**

Stage 40.20 *DIS ballot initiated: 12 weeks* Since 2023-10-15

The work is being done in ISO/TC 117/WG 7 with China doing the drafting.

The DIS ballot started on 2023-10-15 and closed on 2024-01-08. The result was approval and there were three comment files submitted during the ballot. The PL has a WG07 meeting organised on 2024.02.22 to resolve the ballot comments. Target dates for the remaining stages are FDIS (approval) ballot 2024-04-28 and Publication 2024-08-14. But we can edit these target dates if we need more time as the project has only used 13 months of a 36 month timescale so far.

This standard is under Joint collaboration with CEN and will go through the relevant ballots in CEN/TC 156.

#### **ISO/AWI 27327-1 Fans — Air curtain units — Part 1: Laboratory methods of testing for aerodynamic performance rating**

Stage 20.00 (New project registered in TC/SC work programme) Since 2023-08-14

The work is being done in ISO/TC 117/WG 9, with AMCA as the convenor and secretary.

#### **ISO/DTR 27327-3 Fans — Air curtain units — Part 3: Test methods to determine energy effectiveness**

Stage 30.99 CD approved for registration as DIS Since 2019-11-19. The project was registered in June 2016, 90 months ago. It has been at stage 30.99 (CD approved for registration as DIS) for 49 months since 2019-11-19.

The working group is still developing the standard. The US/AMCA are the project leaders for this work.

## **ISO/CD 12759-6 Fans — Efficiency classification for fans — Part 6: Calculation of the fan energy index**

The draft is being revised in ISO/TC 117/WG 11 with Tim Mathson in the US as the Project Leader.

Stage 50.00 FDIS registered for formal approval Since 2023-11-26

The US are leading this project. The DIS (enquiry) ballot closed on 2023-08-16. There was a WG 11 meeting on 2023.08.29 to review and resolve DIS 12759-6 comments. On 2023-11-22 Mike Duggan submitted the files to ISO/CS for their review and for them to start the FDIS approval ballot. The ballot is due to start on 2024-02-05 and end on 2024-04-01.

The “Publication target date” is 2024-05-15, with the “Cancellation Date” being 2024-08-24.

## **ISO/AWI TR 16219 Fans — System effects and system effect factors**

Being revised to add a new Annex to reference the effects on power and efficiency.

Stage 30.60 *Close of voting/comment period* since 2024-01-06. Bill Sanderson is the Project Leader.

The 8-week CD ballot, during which members could submit comments, closed on 2024-01-06. WG12 will resolve the comments before submitting a final draft to ISO for an 8-week “approval” DTR ballot before publication of the revised document.

## **ISO/CD 13347-1 Fans — Determination of fan sound power levels under standardized laboratory conditions — Part 1: General overview**

*Stage 30.60 Close of CD voting/comments Since 2023-12-028*

## **ISO/CD 13347-2 Fans — Determination of fan sound power levels under standardized laboratory conditions — Part 2: Reverberant room method**

*Parts 2 and 3 are at stage 30.00 (Committee draft (CD) registered). The CD ballots are expected to start during February 2024.*

## **ISO/CD 13347-3 Fans — Determination of fan sound power levels under standardized laboratory conditions — Part 3: Enveloping surface methods**

*Parts 2 and 3 are at stage 30.00 (Committee draft (CD) registered). The CD ballots are expected to start during February 2024.*

## **ISO/CD 13347-4 Fans — Determination of fan sound power levels under standardized laboratory conditions — Part 4: Sound intensity method**

*Stage 30.60 Close of CD voting/comments Since 2024-01-04*

## **ISO/CD 13348 Fans — Tolerances, methods of conversion and technical data presentation**

This restarted project is at Stage 40.00 *DIS Registered*, since 2024-01-14.

On 2024.01.12 Mike Duggan submitted the draft as an editable WORD file, a PDF which becomes the “reference copy”, Form 8A which is the “explanatory report” containing the decision to proceed to DIS ballot and a ZIP file containing all of the graphic files in an ISO preferred format.

We now wait for the ISO editor to review all of the files to check they are all complete and in the correct format. If they approve the files, it will proceed to the 12-week DIS ballot, estimated to start 2024-03-18 and close 2024-06-10.

## **ISO/PWI TR 23630 Computational Performance Prediction of Fans Based on Multiple Variable Parameters**

Stage 00.00 (Proposal for new project received) Since 2023-06-28

WG 15 now has authors in place to draft the various clauses.

Once the WG has a complete initial draft to share with TC 117, the project can be registered either with a resolution at the April 2024 meeting, or ahead of that with a NWIP ballot.

The convenor is writing to the authors in February 2024 to get updates on progress and next stages.

## **ISO/AWI 21684 Fans — Laboratory Methods of Testing Air Circulating Fans for Rating and Certification**

Stage 20.00 *New project registered in TC/SC work programme* Since 2023-08-13

WG 16 held a meeting in October 2023 to review the draft that had been issued to the WG.

Once the action items from that meeting are completed, the consensus was to send the revised draft to the CM for a CD ballot (target date 2024-02-14). Other target dates are:

Stage 40.00	DIS registered	Target date 2025-08-13
Stage 60.60	International Standard published	Target date 2026-08-13