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Ventilation for buildings - Ductwork - Cleanliness of  
ventilation systems  
Lüftung von Gebäuden - Luftleitungen - Sauberkeit  
Lüftungsanlagen

EN 15780:2025

# EN 15780:2025 Introduction

New standard on cleanliness of  
ventilation systems



COMITTEE FOR STANDARDIZATION  
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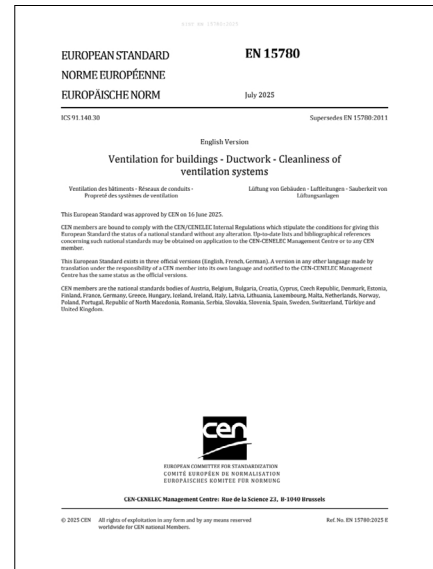
## EN 15780:2025

### Introduction

The European standard for cleanliness of ventilation systems, EN 15780 has finally been revised after 14 years. The new edition, EN 15780:2025, introduces Annex J, which specifically addresses extract ventilation systems for commercial kitchens.

Annex J describes on how the results of a grease duct cleaning should be assessed, measured and documented, as well as determining when the next duct cleaning should be performed.

The purpose is to establish a transparent, data-driven, and reliable framework to reduce fire risk and ensure that grease duct cleaning is carried out with proper results, documented and ensuring



that the next cleaning date is set before reaching too high grease deposits in the kitchen extract ductwork.

### Key points in the updated standard

- Defines how often grease duct cleaning of ventilation duct systems should be carried out.
- Introduces a standard measurement method that can be used without expensive equipment.
- Specifies minimum requirements of documented measurements.
- Includes detailed reporting and documentation requirements pre and post cleaning, including feedback on any issues identified.
- Establishes a minimum cleanliness level that must be achieved after cleaning.
- Cleaning frequency is determined by actual measured data for the specific ventilation system and automatically updated when operational conditions change (for example, opening hours, type of cooking, or airflows).
- Promotes transparency and a data-based approach to minimizing fire risk.
- Helps prevent inaccurate or misleading reporting by unqualified operators.

## System description – Annex J

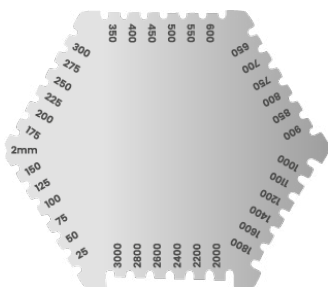
Annex J applies to extract ventilation systems in commercial kitchens that capture and remove grease, heat, and moisture. It defines the main components of the system and how each should be inspected and cleaned.

Typical components:

- Ventilation hood
- Plenum behind grease filters
- Ductwork (horizontal and vertical)
- Extract fans and discharge ducts

## Measurement and evaluation – standardized method

Annex J introduces a recommended measurement method – the Wet Film Thickness Test (WFTT) – for determining grease deposit levels. The method is simple to perform and requires only a toothed gauge capable of measuring from 50 to 800 micrometers.



*A wet film thickness gauge is used to measure the thickness of grease deposit.*

## Measurement points (minimum requirements)

Measurements must be taken at representative locations within the system:

- Hood and plenum behind grease filters
- Duct 1 meter and 2 meters from the hood
- Duct sections between hood and fan
- Fan, including upstream and downstream ducts
- Bends and direction changes
- Discharge duct after the fan

## Deposit limits and cleaning

Grease deposit thickness (average)  
≤ 200 μm – Acceptable – no cleaning required  
> 200 μm – Cleaning required  
> 500 μm (local) – Immediate action required

Cleaning frequency is based on actual measured data and adjusted over time. Where no previous data exists, initial intervals may be determined using Table J.3 in the standard and refined through ongoing measurement and analysis.

## Reporting and documentation

Upon completion of grease duct cleaning, a standardized report must be issued including:

- Pre- and post-clean photographs of measurement points
- Dates of the inspection and grease duct cleaning
- Name of the cleaning company and responsible technician
- Site and system identification details
- Pre- and post-clean measurement results ( $\mu\text{m}$ )
- Current and recommended cleaning frequency
- Any inaccessible or uncleaned sections
- Safety Data Sheets for chemicals used

The purpose is to ensure traceability, transparency, and consistency across the industry and to support insurers and authorities.



*Annex J describes on how the results of a grease duct cleaning should be assessed, measured and documented, as well as determining when the next duct cleaning should be performed.*

## Access panels

Annex J specifies minimum requirements for access panels:

- Maximum 2 meters between panels
- Panels required at each bend, damper, and fan
- Panels must be marked, and fire protection restored after cleaning

If access requirements are not met, the system should be upgraded to allow full inspection and cleaning coverage.

## Summary

EN 15780:2025 with Annex J establishes a clear, measurable, and data-driven framework for the cleaning and maintenance of kitchen extract ventilation systems.

Benefits:

- Standardized method usable by all service providers.
- Data-driven cleaning schedules adapted to actual operating conditions.
- Reduced fire risk through objective measurement.
- Clear reporting and documentation standards.
- Prevention of inaccurate or misleading reporting.

# About Mellifiq

Mellifiq is a multi-awarded environmental service company group, that has since the early nineties evolved into a world leading system and solution provider with multiple groundbreaking applications for industrial, municipal, and real estate clients. We supply cutting-edge technologies to manage the most sophisticated air, water, and energy challenges.

Mellifiq offers a complete range of air and water treatment technologies and solutions across multiple industries such as processing industry, energy sector, food and beverage, pharmaceutical, wastewater treatment and commercial real estate.

Mellifiq offers strong and renowned brands, such as Ozonotech, Nodora Water Maid, Saniray, Axolot and world-class engineering services combined an excellent track record of more than 40 years of innovation. We help our clients achieve the most efficient and sustainable solutions while creating the maximum value for their businesses.

With several business units across Europe, Mellifiq is headquartered in Stockholm where research and development, production, QA and certification all take place. Our unique technology and our extensive expertise have made us the Center of Excellence for the world's most complex projects, and a global player with installations on all six continents.

Everyday millions of people rely on our solutions for ventilation, disinfection, sanitation, and odor control. We are committed to raising the bar for the concept of clean and the industry standard for engineering, technical services and general contracting.

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