SCHIEDEL

Commercial Services

Chimney solutions designed for Commercial applications.

2026 - V1

Cutting-edge chimney solutions and unmatched expertise

Schiedel, Pioneering excellence at the forefront of your commercial project

Explore excellence with Schiedel, Europe's premier supplier of commercial chimney systems, delivering precision and innovation across diverse sectors. Partner with us for unparalleled solutions in your commercial ventures.

Schiedel stands as the foremost supplier of prefabricated chimney systems in Europe, offering an extensive selection of flue and chimney products designed specifically for commercial applications.

Our team of commercial specialists provides unparalleled support across a spectrum of sectors. From the initiation to the completion of projects, Schiedel offers comprehensive services encompassing system design, technical support, competitive quotations, and after-care services from our installation partners.

Demonstrating a commitment to innovation, Schiedel leverages cutting-edge technology and adheres to European Standards. Through our trusted partners we provide first class customer satisfaction, Schiedel offers maintenance contracts, and our marketing team encourages clients to showcase projects through case studies, websites, PR, and social media channels.

Schiedels Flue Experience

Over 75 years' experience in flue design and manufacturing

Complete supply & fit service with our trusted local & international partners

Successful installations in various locations throughout the UK & globally

Manufacturing excellence meeting all of the latest industry regulations

The complete supply and fit service

We provide a diverse range of products suitable for various commercial or industrial applications, including biomass flue systems, multi-flue chimneys, pressure systems, fan dilution systems, and generator exhausts. Additionally, we offer a comprehensive CAD design service and technical support.

With unparalleled experience in both private and public sectors, Schiedel is a reliable partner for projects of any scale or nature, spanning chimneys to exhaust and venting systems.

Our technical team offers site analysis and application advice, catering to projects not only in the UK and Europe but globally, where we have been delivering practical and installer-friendly solutions for over a quarter of a century, addressing both on-land and maritime requirements.

The incorporation of a BIM (Building Information Modelling) Catalogue underscores Schiedel's commitment to providing engineers, planners, and architects with extensive data and support throughout the planning process.

The broad product portfolio covers chimney systems, commercial flue systems, venting systems, support systems, and exhaust systems, positioning Schiedel as a versatile and reliable choice for commercial projects.

Phil Lowe

Sales Director

Applications

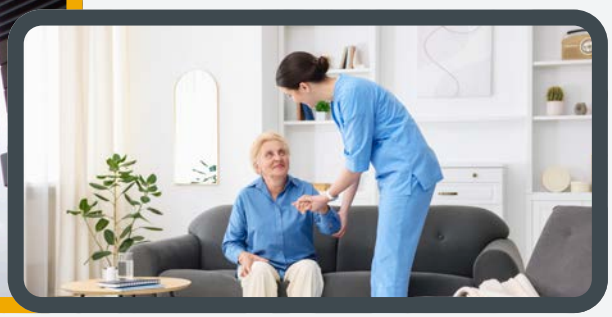
High Rise & Large Residential

Specialists in Life Safety & Regulatory Compliance Under BS 9991 and Approved Document B, modern building standards dictate that backup "Life Safety" generators are no longer optional —they are a legal necessity.

Schiedel provides the high-specification exhaust systems required to keep these critical power sources operational during an emergency.

Our expertise covers a broad range of high-stakes residential and institutional sectors:

- Residential Blocks (Over 18m): We provide the vertical infrastructure required for generators powering firefighting lifts, smoke ventilation fans, and sprinkler pumps.
- Residential Blocks (Over 11m): Supporting buildings that rely on automated smoke clearance systems to meet modern safety codes.
- Student Accommodation: Ensuring large-scale blocks maintain uninterrupted power for emergency lighting and sophisticated fire alarm networks.
- Care Homes & Sheltered Housing: Protecting the most vulnerable by ensuring backup power for medical hoists, emergency call systems, and medicinal refrigeration.



Applications

Healthcare & Public Safety

In the public sector, reliability is a matter of national security and patient safety.

Schiedel specialises in high-specification exhaust and chimney solutions for the critical backup power systems that keep essential services online during grid failures.

Our engineering solutions are vital for:

- Hospitals (Acute & Community): We design systems for generators that support life-critical environments. Under healthcare safety standards, these facilities must power operating theatres and life-support systems for a minimum of one hour, though our systems are often engineered for 24+ hour continuous operation.
- Diagnostic Centres: Protecting high-value assets and public health data. Our flues support the backup power required to safeguard MRI/CT scanners and temperature-sensitive pathology samples.
- Police & Fire Stations: Ensuring the resilience of national emergency communication grids. We provide the infrastructure that keeps command centers operational when every second counts.
- Correctional Facilities & Prisons: Powering essential security protocols, including perimeter lighting, automated gate-locking systems, and high-security surveillance networks.

Applications

Public Assembly & Commercial Infrastructure

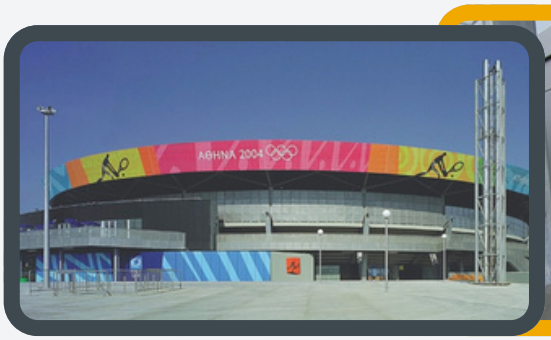
In large-scale commercial environments, Schiedel's systems provide the critical link in emergency "Life Safety" protocols.

We engineer exhaust solutions for the backup generators that power essential evacuation systems, ensuring that when the grid fails...

public safety remains uncompromised.

Our strategic solutions are deployed across:

- Airports & Train Stations: Supporting the mission-critical power required for Air Traffic Control (ATC), rail signaling, and large-scale automated passenger evacuation systems.
- Stadiums & Arenas: Providing the infrastructure for emergency lighting and high-output Public Address (PA) systems, which are vital for coordinated crowd control during emergency incidents.
- Shopping Centres: Powering heavy-duty smoke extract fans and "anti-panic" emergency lighting to ensure clear, safe exit routes in high-density retail environments.
- Hotels & Hospitality: Meeting strict regulatory codes for firefighting lifts and maintaining continuous lighting in "windowless" corridors and internal stairwells to facilitate safe guest egress.



Applications

Data Centres

Chimneys in data centers are crucial for the efficient operation of backup generators during power outages, ensuring continuous power to servers and uninterrupted digital service availability.

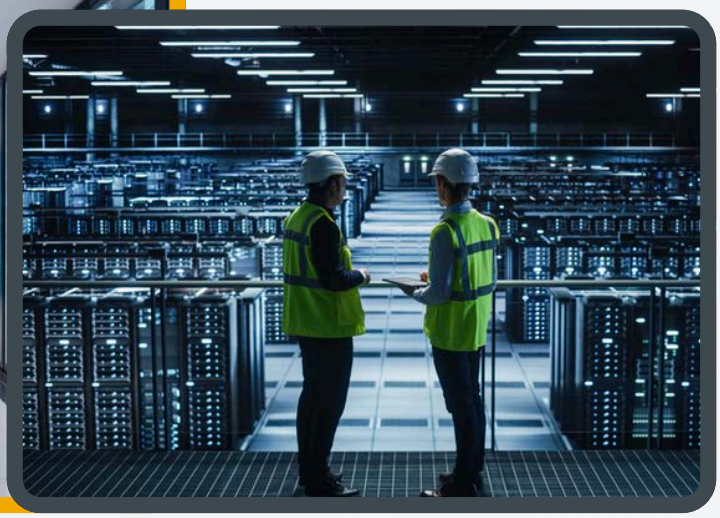
By ventilating exhaust gases, functional chimneys maintain the reliability of backup power systems, preventing service disruptions.

Data centre soltions:

Schiedel Chimneys leads the way in revolutionising data center infrastructure with its precision ventilation solutions. In today's fast-paced IT landscape, we integrate our chimneys to enhance data center performance, ensuring efficiency and reliability.

Committed to cutting-edge technology, Schiedel Chimneys becomes the backbone of your data infrastructure, offering innovative, future-ready solutions.
Transforming challenges into opportunities, we provide smart solutions that boost your data center's potential.

Schiedel UK is the strategic partner for businesses seeking to confidently meet the evolving demands of the digital era with efficiency and innovation.



Applications

Commercial Hospitality & Artisan

In the competitive hospitality and specialty food sectors, the "plumbing" of a building is as vital as the front-of-house design.

Schiedel provides the technical flue and extraction infrastructure that allows restaurants, bakeries, and roasteries to operate safely and efficiently within urban environments.

Our bespoke solutions are essential for:

- Restaurants & Commercial Kitchens: Providing high-temperature flues for wood-fired pizza ovens and heavy-duty char-grills. We ensure that intense heat and cooking byproducts are vented safely, meeting stringent local authority fire codes and planning requirements.
- Artisan Bakeries: Supporting the continuous, high-output steam and heat extraction required for industrial bread ovens. Our systems are designed to handle high moisture levels while maintaining the thermal efficiency required for consistent production.
- Coffee Roasters: Managing the unique demands of specialty roasting. Roasters require specialized exhaust systems to handle the high temperatures and "chaff" byproduct of the roasting process, often requiring integrated solutions to manage moke and odour in residential or high-density areas.
- Craft Breweries & Distilleries: Providing the steam and gas venting required for brewhouses and stills, ensuring the delicate balance of pressure and temperature is maintained during the production cycle.

Our trusted partners

Supply & Installation Service

At Schiedel, we bridge the gap between world-class manufacturing and precision on-site execution.

Our 'Supply & Fit' model is powered by a hand-picked network of trusted partners, ensuring that your project benefits from local knowledge backed by international engineering standards.

Comprehensive Managed Service Complexity is handled by our partners; simplicity is delivered to you. When you partner with Schiedel, you are assigned one central point of contact to navigate the entire project lifecycle.

While you enjoy the ease of a single relationship, the full weight of our technical and logistical engine is working behind the scenes.

Flue Stax

New Vent Solutions Limited

NATIONWIDE CHIMNEY COMPONENTS LTD

SIGRAM FLUE SYSTEMS LTD

CES

FALCON FLUES

FBSFLUES

ChimFlue

MIDTHERM Engineering Limited

CFS

Designed for Safety

Crafting optimal solutions through rigorous structural, acoustic, and thermal calculations, with a paramount focus on enhancing safety within flue gas systems.

Dedicated team of experts

Kris Smith

Commercial UK & ROI

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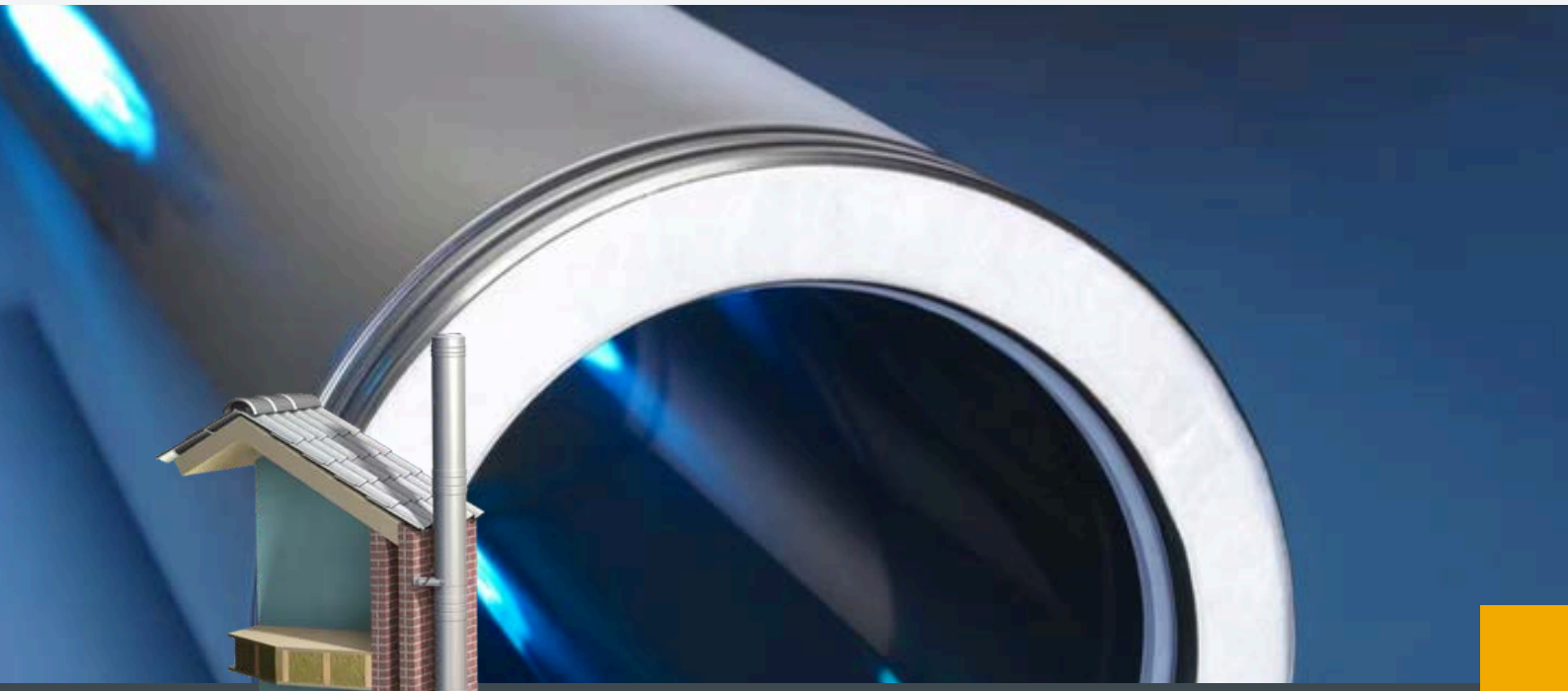
ME

A modular, single-wall exhaust/exhaust system made of stainless steel with an internal special lip seal. It can be used universally at low and high temperatures with and without condensate accumulation in negative and positive pressure.

ME is a single-wall, modular exhaust air and flue gas system made of stainless steel. The universally applicable system is suitable for renovations, ventilation and exhaust, condensing boilers, low temperature as well as solid fuel fireplaces.

It is also characterised by quick as well as easy installation with the help of a socket search edge and retracted insertion ends. We have summarised all the advantages of the ME system for you:

- Stress free thermal expansion
- Can be connected to MF
- High quality stainless steel system
- High temperature silicone sealing ring
- Universal application
- Light weight system
- Chimney fire resistant

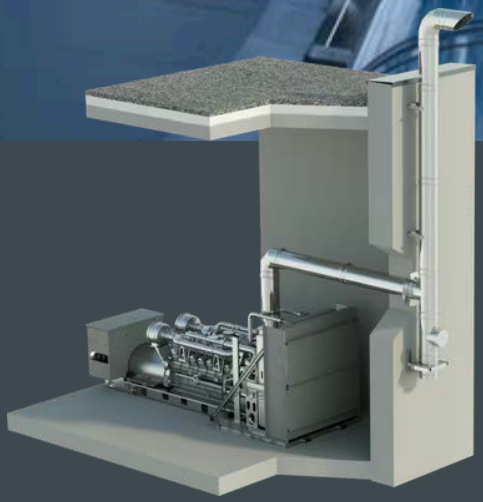


MF

The double-walled, modular, soot fire-resistant and pre-insulated exhaust and flue system made of stainless steel - suitable for baking ovens, industrial plants, tiled stoves, open fireplaces, condensing, low-temperature and solid fuel fireplaces.

The MF system is a modular twin wall insulated flue/chimney system, made of stainless steel, with a sealing ring. MF is a universal flue/chimney system which is suitable for both high and low temperatures, non-condensing and condensing applications with flue gasses in positive and negative pressure. It can resist a chimney fire. Therefore the system is suited for a wide range of applications such as boilers, stoves and ovens.

- Universal chimney/flue system
- Inner- and outer wall from high quality stainless steel
- No terminal bridges, uninterrupted insulation from base plate to top stub
- Stress free thermal expansion
- Fast-build system without the need of sealants
- Compatible with system ME, UE and EN
- High density and high quality insulation
- High-temperature silicone sealing ring
- Lightweight elements



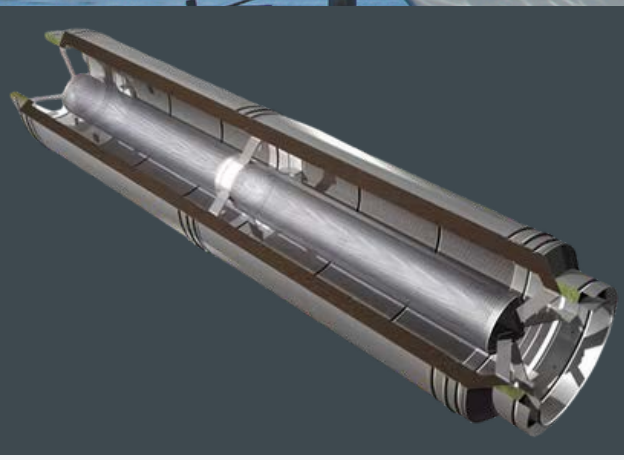
ICS5000

ICS 5000 is a multi-functional twin wall insulated venting system for use on heating appliances, stand-by gensets, CHP and service ducting.

ICS 5000 is a multi-functional twin wall insulated venting system, which is suitable for internal and external use on a wide range of engineering, combustion and process equipment.

ICS 5000 comes with a high quality specification as standard with a 316L Grade Stainless steel liner, high performance mineral blanket insulation and a bright annealed 304 Grade stainless steel outer case.

- Engineered spigot and socket joint
- Pronounced lead in edge
- Quick and easy assembly
- Pressure gasket on outer case protected by insulation
- Continuous insulation avoids thermal bridging
- Inner liner free to expand and contract
- No requirement for expansion joints
- No onsite welding or cutting required



Silencers

Schiedel have developed their own silencer programme due the increasing demand for noise attenuation and after extensive research and development by a team of their acoustic engineers.

Schiedel can present a unique variety of stainless steel, light-weight, silencers, all fitting seamless into the existing product range for exhaust gas and flue systems.

Key Features

Construction: Twin-wall, pre-insulated stainless steel.

Efficiency: 50% lighter than traditional steel silencers, reducing vibration transfer and simplifying installation.

Integration: Features "click-fix" modular connections and internal thermal expansion compensation, eliminating the need for expensive compensators or specialized mounting kits.

Reliability: Developed and tested to international standards for use in everything from urban buildings to mega yachts.

Parratech data centre

Schiedel was tasked with providing exhaust solutions for the emergency power diesel generators in a Sydney datacenter. Our engineers designed 16 chimney stacks with a diameter of 600mm and a maximum height of 32m, following the architect's plans.

The stacks were grouped at the side of the building. Schiedel ensured timely delivery of all materials on pallets to the client's agent in the port of Rotterdam, facilitating swift installation and avoiding delays in the construction timeline.

Groningen data centre

Schiedel's design factored in essential aspects such as rain deflection, diameter calculations, and management of sound, wind, and seismic factors.

The project team handled JIT delivery and installation planning crucial for the project's size. Precision was key for installation as planned. Schiedel engineers provided vital support with parts lists, 3D models, and detailed installation instructions for timely and accurate implementation.

South Glasgow Hospital

The specialist flue systems had to be installed in four separate plant rooms over two floors of the energy centre, before rising the required height on a support mast.

The mast with the flues pre-assembled had to be lowered in four sections into a central void less than 500mm wider than the mast. The internal flue diameters were 450mm, 550mm and 600mm. All in all, a remarkable feat of engineering; one of many from Schiedel.

Lochaber High School

Schiedel was contracted to supply & install three 250mm internal diameter flue systems serving Viessmann Vitoplex 200 condensing boilers and a 350mm internal diameter flue system for a Viessmann Kob Pyrot biomass boiler.

On exiting the plant room all of the flue systems have to travel horizontally, before entering an aluminium clad windshield which rises through the curved roof of the Energy Centre plant room.

Chewton Glen Hotel & Spa

The task was to supply, deliver and install a 200mm ID flue off a Woodstone Pizza oven rising vertically for approximately 1.5m through the roof and then 45° across to avoid an air handling unit. The flue again turns 45° and rises vertically for approximately 2m to termination.

A very accomplished task, and more important as it forms part of "The Kitchen", a cookery school which provides training courses for some of the UK's top chefs!

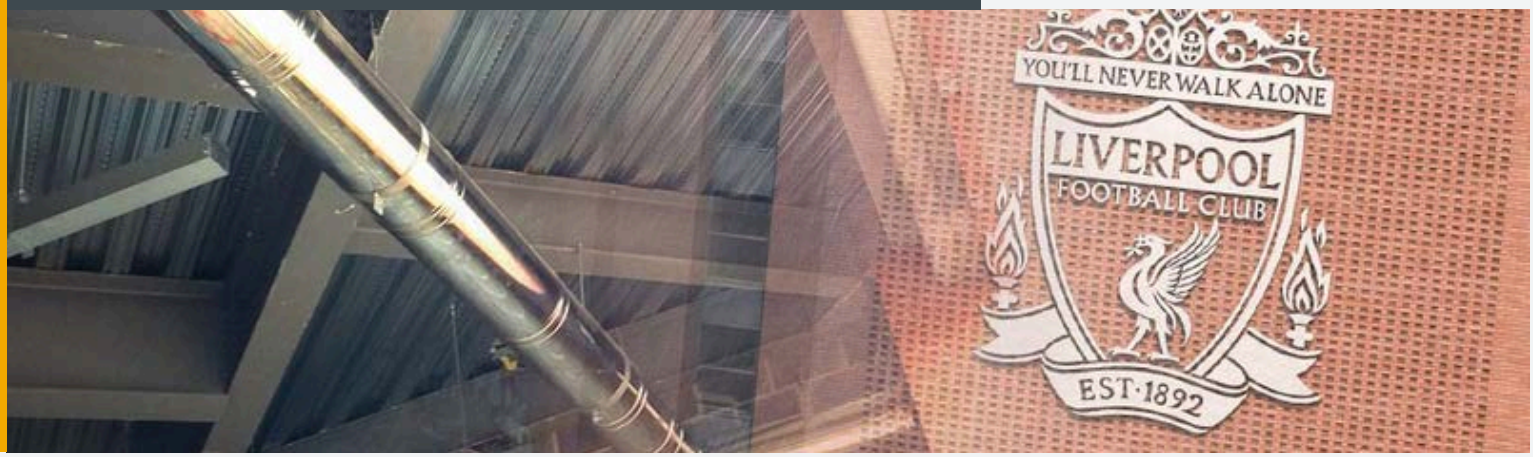
The REV Ocean

Due to the ship's extensive expansion and structural redesign, the shipyard's most pressing requirement was a significant reduction in the weight of the exhaust system.

Schiedel was the clear choice, as the exceptionally low weight of the Schiedel AM system provided the exact solution needed. Minimizing these top-heavy components was paramount for restoring the vessel's stability and seaworthiness, ensuring a more centered center of gravity.

Furthermore, there were stringent demands for superior corrosion resistance, and a third critical challenge was the reduction of vibrations originating from the powerful engines.

Liverpool stadium



The project focused on the regeneration of Anfield, increasing capacity to 60,000 while preserving its famous atmosphere. As part of this modernization, a 700kVA generator with an acoustic enclosure was installed for backup power.

Schiedel supplied the ICS 5000 flue system, a high-spec twin-wall stainless steel solution insulated with superwool, designed to withstand high pressures across the new infrastructure.

Royal Liiverpool Hospital

This project centered on the installation of a sophisticated exhaust network for the Royal Liverpool University Hospital. The facility relies on heavy-duty Cummins generators to maintain power during emergencies. The scope involved engineering a durable flue system that could handle high-temperature output while integrating into technical service ducts. It was finalized as a key part of the hospital's infrastructure.

The ICS 5000 system provided the perfect answer. It features an innovative sleeve joint with integral pressure gaskets and locking bands, allowing for rapid assembly. This multi-functional system ensures insulation continuity and protects the outer pressure seal. With an inner liner designed to expand freely and a reliable condensate drain-down, the ICS 5000 delivered a high-performance success for the project.

Schiedel Engineering: Tailored Solutions for Diverse Industries

Tailored Solutions for Exhaust, Chimney, Sound Pressure Reduction, and CLV Systems across Power, HVAC, Food, Marine, and Industrial Sectors

Our services mitigate financial, operational, and safety risks in flue gas installations. Specialising in modular exhaust and CLV systems tailored to each client's needs, we cater to various sectors, including factories, superyachts, hospitals, offices, and apartments.

Specialities

- Sound Pressure (reduction) Calculations
- Wind load calculations
- Back pressure calculations
- Structural integrity calculations
- Seismic calculations
- Norms & Regulations conformity checks 2D / 3D Drawings & Models
- Heat recovery calculations
- Temperature calculations (Outer wall & Heat flux)

Services

- Feasibility Study & Full design
- Commercial & Technical Quotations & Offers
- Project Management & Commissioning
- On Site Supervision
- Transportation / Delivery
- In-house & On site training
- Sub-contractor selection
- Industrial Survey & Maintenance

Quality manufacturing

Globally renowned for their excellence, our modular components stand out with unparalleled dimensional precision and remarkable mechanical durability, assuring an extended lifespan that exceeds expectations.

Safety is paramount, achieved through meticulously designed lock fittings that ensure high-pressure tightness throughout the exhaust channel.

Our commitment to quality and service is ingrained in our manufacturing ethos. Equipped with cutting-edge machinery, our production processes are seamlessly integrated with the latest MRP planning and scheduling system. This synchronisation ensures that manufacturing aligns perfectly with project delivery schedules.

In order to ensure product quality and safety all our products are complying with industry standards and norms, international safety regulations and the environment:

Accreditation

- EN 13084 Free-standing Chimneys
- EN 1090 Fabrication & Assembly of steel & aluminium structures
- EN 1856 Chimneys - Requirements for metal chimneys
- EN 1993 (Eurocodes) Design of steel structures
- ASME American society of mechanical engineers
- GB 50051 (Chinese National Standard) Design of Chimneys
- ISO 9001 Quality management system
- ISO 14001 Environment management system

Get it right

The Critical Path

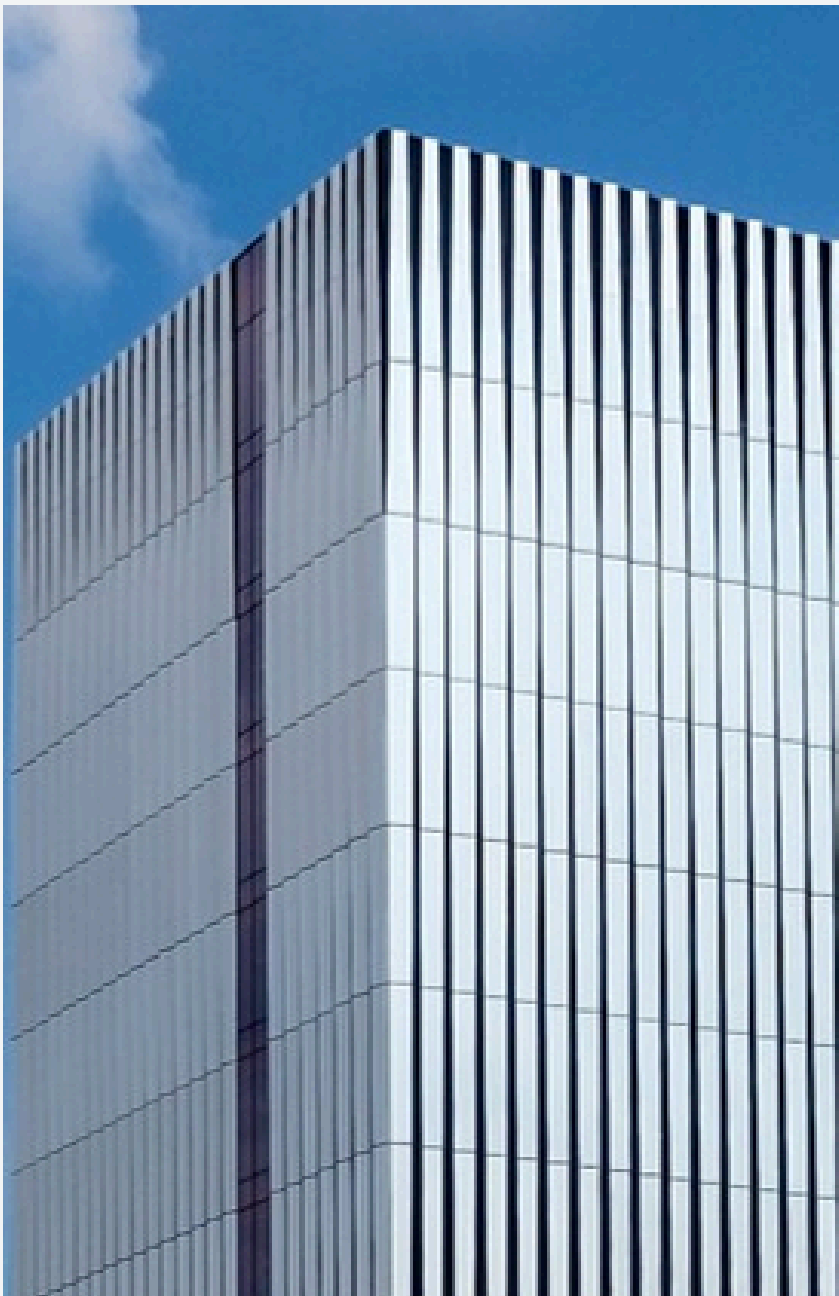
Introducing a flue at the right time is key given the penalty clauses that can be issued when a project is delayed.

However, the tendency for contractors to leave the process until the tender stage is an error, as the most successful projects invariably seek specialist opinion much earlier on (see section III). This approach provides more time but it also anticipates technical challenges long before the customer takes ownership.

As a chimney specialist that has worked extensively in the data centre market, Schiedel advocates a 'critical path' method. Adhering to this process not only eliminates issues before they affect a build, but also ensures expertise is introduced at the most effective point.

Potential on-site issues that can delay flue specification include:

- Poor coordination with other stakeholders on site
- Lack of lifting and access equipment
- Lack of materials and product inventory
- Failure to consider cold spots in the flue that can affect generator performance
- Improper documentation (e.g. health and safety permits)
- Poor management of production and labour costs
- Failure to account for obstructions (e.g. route impeded by other building services)
- Poor-quality product that hasn't been sufficiently temperature-pressure tested (industrial flues run several hundred degrees hotter than a domestic installation)



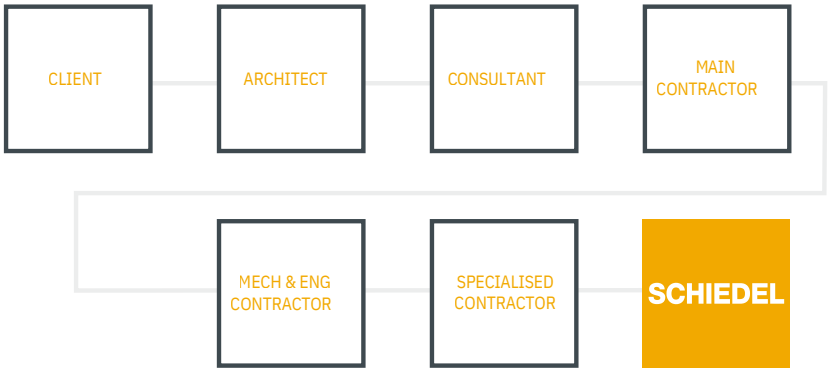
Get it right

The Critical Path

Schiedel's critical path has been designed to simplify flue installation in large non-commercial projects like data centres.

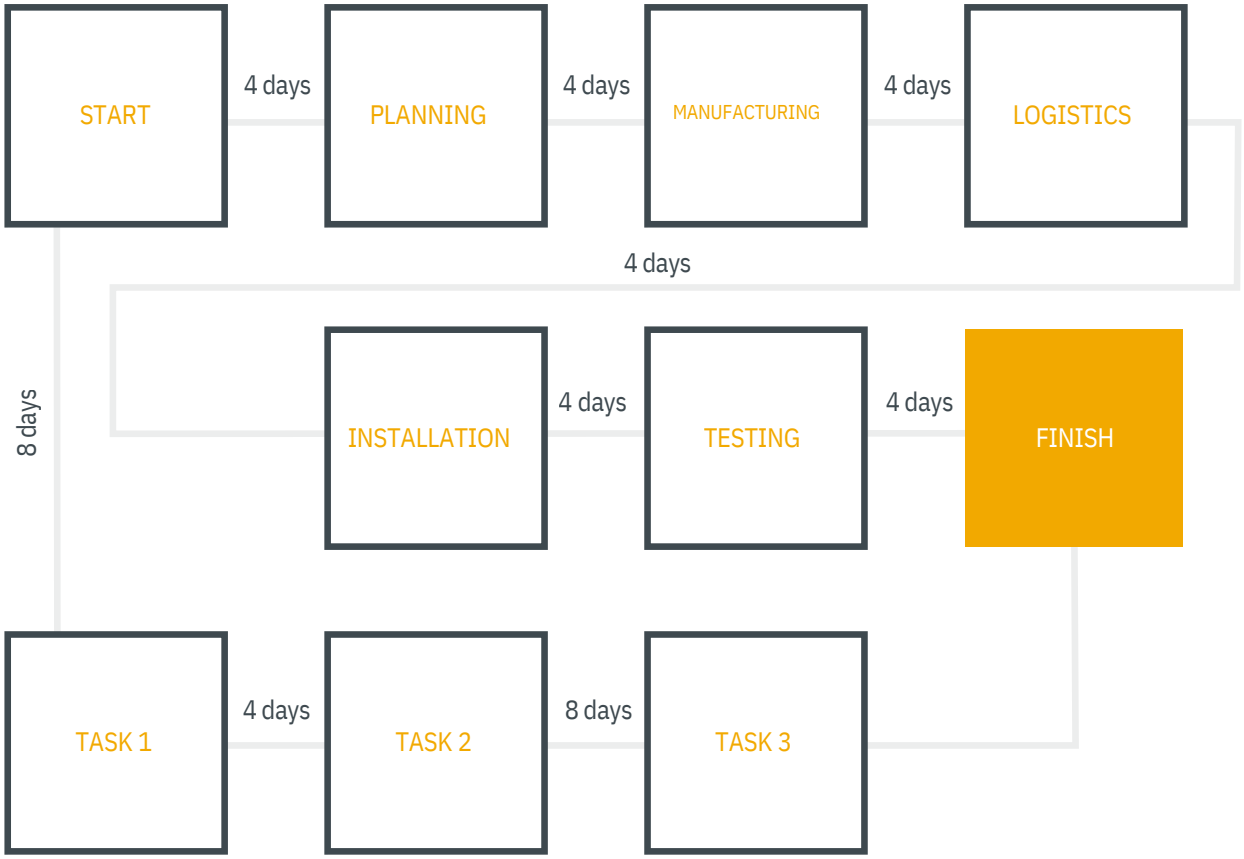
By keeping these timings in mind, architects and project leads can minimise risk and guarantee a seamless process from design through to production, testing and installation.

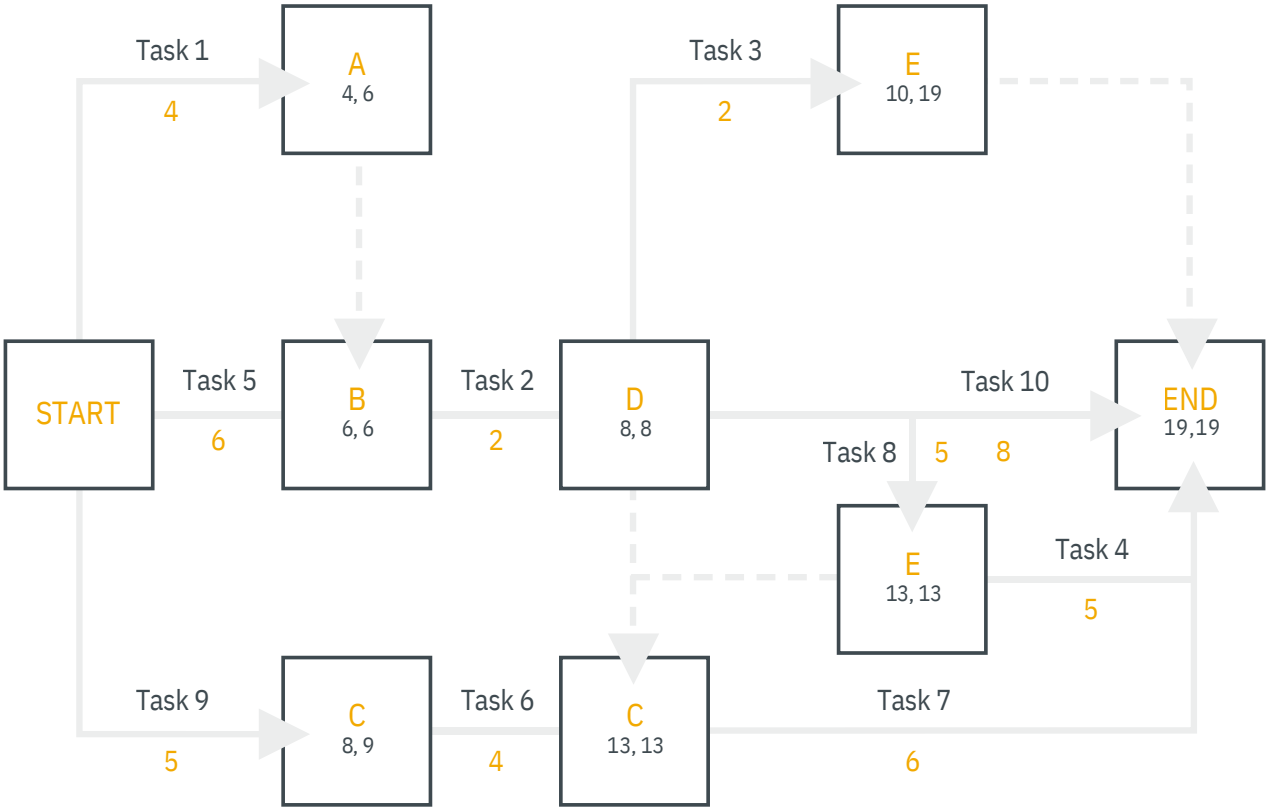
1. Route to Market



- Flue systems can be difficult to navigate and install if left too late into the build
- The earlier a chimney specialist is engaged, the less there is to change at the point of installation
- There are different circumstances for every project, which can be complex to work around and overcome when not involved from the beginning

2. Risk Reduction on the Critical Path



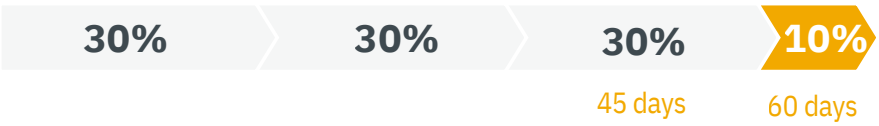


Earliest completion time	Latest completion time

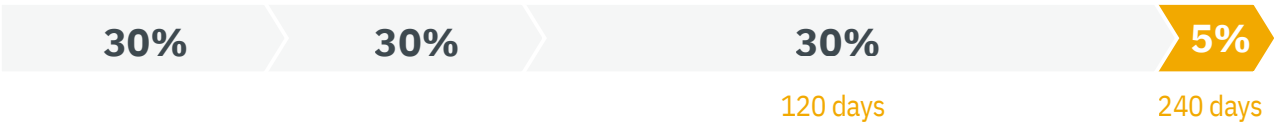
- As the critical path shows, setbacks that implicate the flue system can delay a project by days or even weeks
- It's crucial to prioritise the flue system when navigating large-scale data centre projects with interdependent components

3. Financial Impact

Contractually agreed invoice and payment schedule



Reduced payment schedule as a result of delays, unexpected interruptions etc.



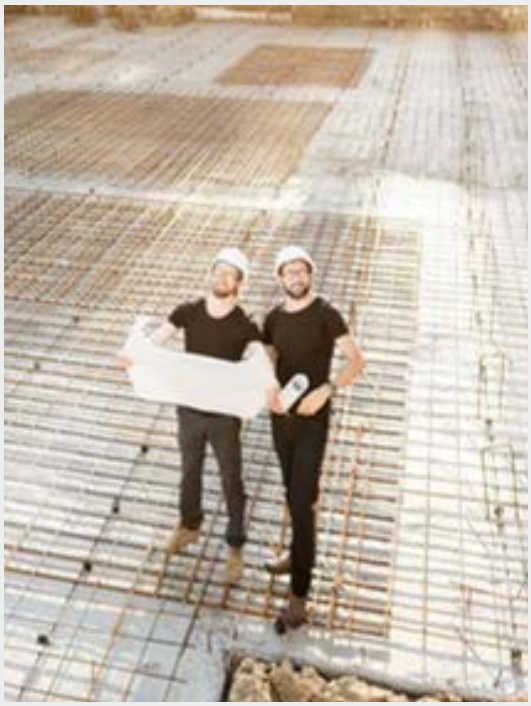
Flue gas systems represent a relatively small part of the total project value for the customer.

HVAC installers, for instance, might accept a £2 million pound order for a large facility; flue gas systems, however, will only represent £35,000 of potential delays for the entire project.

Delays to the flue gas system or design flaws delay cashflow, causing large penalties or exposure to liabilities. Penalties of 5%-10% are not uncommon, which can total hundreds of thousands of pounds.

Flue experts can reduce the operational, safety and financial risks for different contractors on site, including the HVAC installer and project developers.

Engaging a flue specialist at the earliest stage of a build will minimise the chances of error, incorrect installation and damage.



Strategic partnership

Global reach, Local expertise

By managing the installation via our trusted partners, we eliminate the "blame game" between supplier and contractor.

We take full accountability for the system's performance, ensuring every joint, bracket, and stack meets BS 9991 and Approved Document B standards.

Speak to our experts

Dean Moffatt
Technical Specialist

Contact us for support with your project.

SCHIEDEL

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A standard INDUSTRIES COMPANY