



Hyde Chadwick

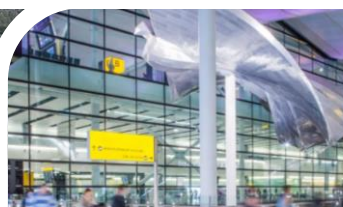
Building Services
Consultants

Service Profile

Quality by Design



- Engineering Services Design
- Mechanical, Electrical and Public Health
- Building Physics and Analysis
- Building Information Modelling (BIM)





HC Experience

Both of our directors bring with them a wealth of knowledge across a broad range of design and construction sectors and are fully hands on in developing all aspects of each project design. Each project is allocated to a dedicated client focused director, ensuring each client receives the benefit of dealing directly with upper management on a dedicated one to one basis. This ensures high levels of customer satisfaction. Our vast experience guarantees that Hyde Chadwick add value to each project that we undertake. Our goal is to exceed our client's expectations and develop long term relationships with all clients.

HC Beliefs

We believe in providing a strong technical, professional and personal service which is underpinned by our enthusiasm to not only meet client expectations, but to deliver a service that is recognised for its quality. We believe that our staff are our greatest asset and that continuing investment and development of staff and promoting honest and open communication is key to delivering successful projects across all sectors.

HC Background

Hyde Chadwick was founded in 2017 combining over 40 years of experience of our two managing directors. Since then, we have seen our Client base increase, built upon a solid reputation for delivering high quality, technically sound designs and cost-effective solutions to all projects. Hyde Chadwick's team of enthusiastic, proactive engineers provide a new and refreshing element to all of our projects.





Mechanical, Electrical and Public Health Engineering

Our dedicated team of engineers have experience across many sectors including:

healthcare, retail, leisure, industrial, energy from waste, heritage, education, commercial and residential.

Both directors have extensive overseas experience in addition to working within the UK. This enables our clients to utilise our wealth of experience across all sectors.

Electrical Engineering

- Mains Infrastructure, HV and LV Distribution
- On site generation and back-up power provision
- Containment Systems
- General Power
- Voice and Data
- Internal General Lighting
- Emergency Lighting
- External Lighting
- Fire Alarms
- Intruder Alarm, CCTV and Access Control
- Lightning Protection

Mechanical Engineering

- Comfort Cooling and Air Conditioning
- Heating Systems
- Ventilations Systems
- Steam Systems
- Passive Servicing Strategies
- Building Energy Management Systems

Public Health Engineering

- Hot and Cold Water Systems
- Water Infrastructure
- Gas Systems
- Above Ground Drainage



Engineering Services Consultancy

To supplement our building services design capabilities, we are also able to offer our expertise in the following areas of engineering consultancy to provide added value to any project. We can identify and comment upon the condition and the performance of existing building services and provide recommendations on how to improve and enhance your building:



Expert Witness

Hyde Chadwick can offer an expert witness, solving clients' engineering problems and disputes.

Acquisition Reports

We are able to produce various bespoke reports tailored to meet individual client requirements. Including acquisition reports and dilapidation reports.

Life Cycle Reports

Hyde Chadwick have the engineering knowledge and capabilities to provide the full range of condition surveys and life cycle and planned Preventative Maintenance Reports for all aspects of building services.

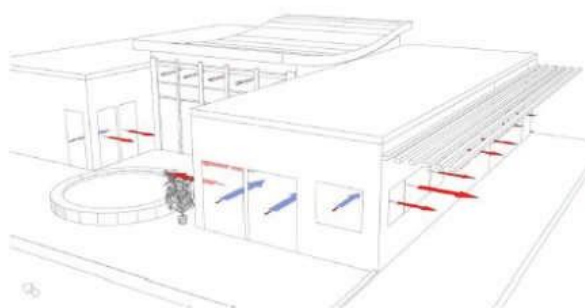
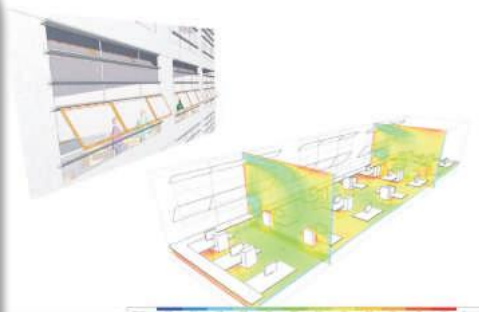
Clerk of Works

Where required, we can provide projects with a Clerk of Works with Mechanical, Electrical and Public Health experience who will monitor engineering installation quality and report directly back to the client raising any issues identified.



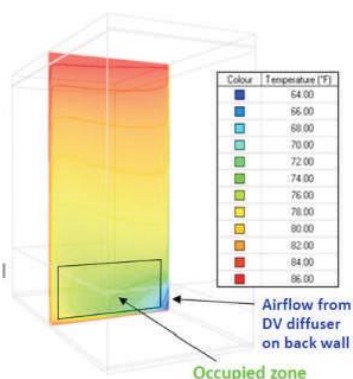
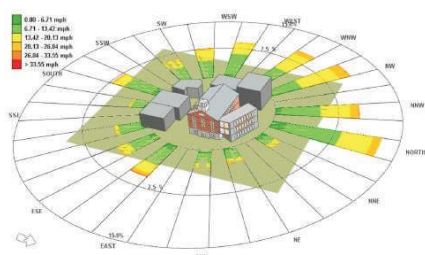
Building Physics and Analysis

Building physics is the application of physics and thermal dynamics to the built environment. Software such as IES and TAS can model how heat, light and air move through a building. This provides an in-depth understanding of how these elements interact with the building. The application of thermal modelling by our experienced building modellers enhances Hyde Chadwick's engineering solutions throughout the whole process.



Our capabilities include:

- Heat transfer calculations including Steady State Loads using CIBSE Guide A methodology.
- Energy modelling to validate strategies and demonstrate Building Regulations compliance.
- Ventilation studies using dynamic thermal simulation and CFD tools.
- Solar load and overheating analysis.
- Dynamic Simulation Modelling (DSM)
- Building Energy Performance and Carbon Dioxide Emissions
- Thermal comfort, overheating and solar heat gain
- Ventilation strategies and air flow
- Passive Design Analysis
- Daylighting Calculations
- Low and Zero Carbon (LZC) feasibility
- Building Regulations Part L compliance



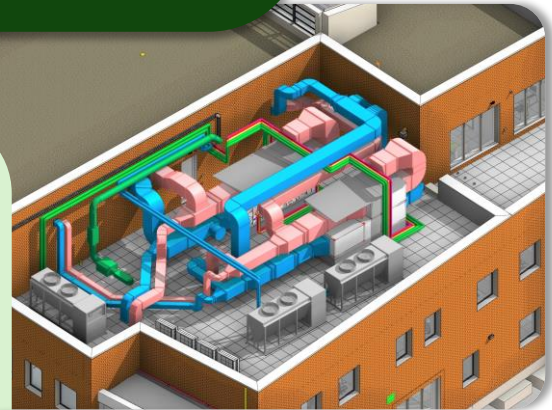
Building Information Modelling (BIM)

Hyde Chadwick are able to optimise the design and construction process through our proactive and collaborative working principals, backed up by the use of modern computer aided design tools. Design, Coordination, Performance and Operational challenges can be visualized, solved and optimised within in an integrated 3D computer simulation. Building Information Modelling (BIM) gives opportunities for providing a common, shared project model offering significant benefits to construction partners, developers and building owners or occupiers.



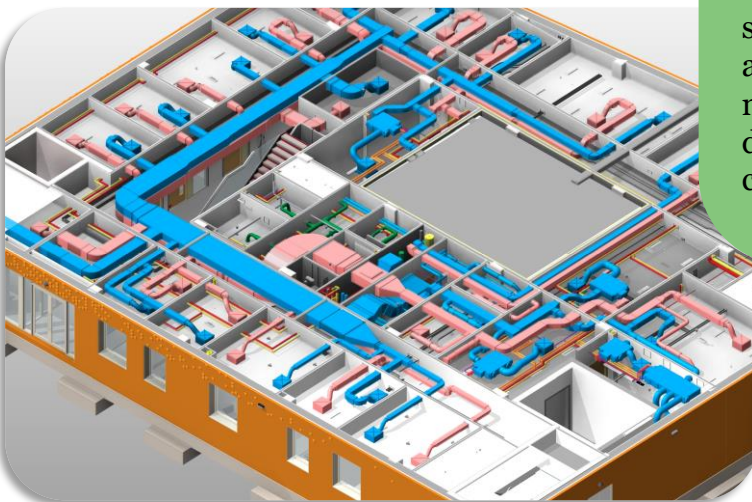
Autodesk Revit Architecture, Structure and MEP

Architectural, Structural and Mechanical, Electrical and Plumbing (MEP) design, analysis and modelling software, supporting BIM integration and collaborative workflows.



Autodesk Navisworks

Project review software, supporting the integration and analysis of multi-format 3D models, including clash detection and management capabilities.



Sustainable Building Design

Our building design specialists continue to make buildings more comfortable for the end users, better for the environment and to optimise functional performance to provide better returns.



Low Carbon Consultants and Energy Assessors

Our highly qualified, experienced and pro-active engineers include CIBSE accredited Low Carbon Consultants and Energy Assessors who have demonstrated their competence in minimising energy use and carbon emissions from buildings both in design and operation. Our LCEA's are accredited to carry out Building Regulations part L, SBEM and DSM calculations for all building types, from level 3 to level 5 utilising our thermal modelling capabilities.

Low and Zero Carbon (LZC) and renewable energy consultancy

We can offer independent advice on the application and integration of LZC and renewable technologies in buildings, including the production of planning reports.

Non-Domestic Energy Performance Certificates (EPCs) and Display Energy Certificates (DECs)

Our accredited Energy Assessors can undertake the full process of assessment, production and lodgement of EPCs and DECs for all project types.





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