

# MEP FORENSICS

## AND INDEPENDENT ANALYTICS

THOUGHT LEADERSHIP FOR THE BUILT ENVIRONMENT



# Forensics is the expert investigation and analysis into the cause of any failures or defects that may arise during a project's operational phase.

Whether it manifests itself as a major breakdown of a building's MEP systems or as a more minor issue relating to project performance, forensic analysis is used to get to the heart of the problem and find the best possible solutions.

With building developments becoming increasingly more intricate, the chances of issues arising has become more common. Additionally, when materials, products or systems are not functioning within their defined operating bands, this can negatively impact the health of a building's inhabitants, cause damage to the property in question, or negatively affect overall operational costs. It is the role of the forensic specialist team to analyze, report on root causes and to seek resolutions to even the most

complex of MEP and facade issues. Forensic teams work impartially and in the strictest of confidence, to aid asset owners and managers, or support lawyers and insurance companies in claims related disputes.

## THE ALPIN APPROACH

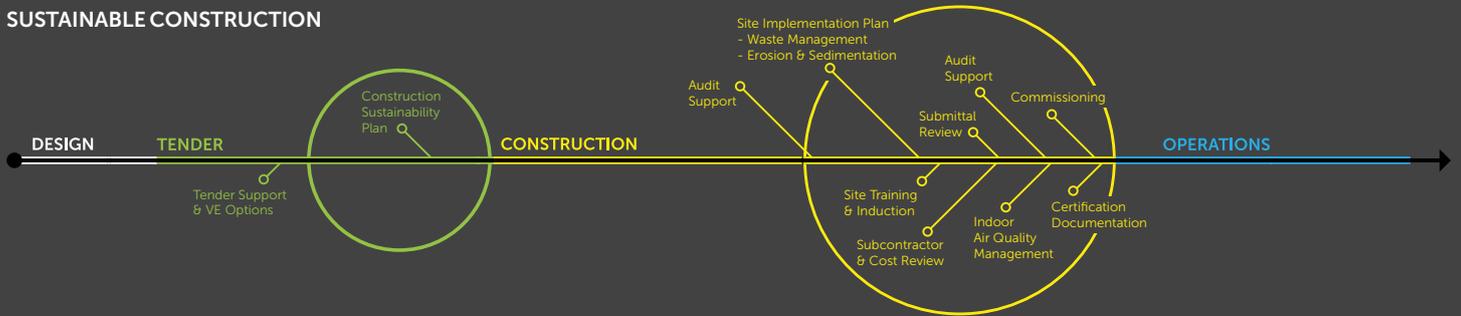
Our independent MEP forensic specialists have nearly 20 years of expertise in analyzing and identifying issues within a wide range of MEP functions and processes. As trusted independent advisors, Alpin has worked with several clients, from developers, owners and building operators, to lawyers and insurance companies, to provide investigation, expert witness and reports

relating to a vast array of issues or litigation cases.

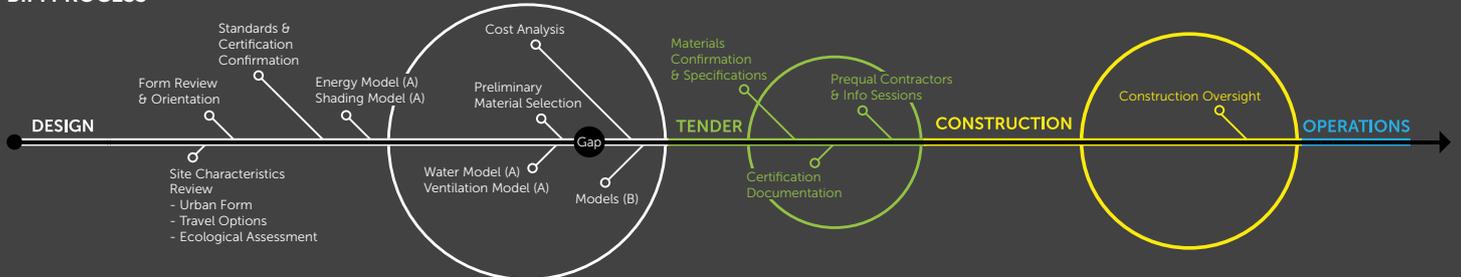
Our in-depth, hands-on experience of MEP design, construction and commissioning means our clients can rely on Alpin's expert testimony and our ability to deliver the most detailed reports, in tandem with BIM analysis (if requested) and cost effective solutions. Our forensic services can be tailored to meet individual requirements, whether that means conducting confidential initial assessments, or carrying out more extensive studies throughout operations, to help pinpoint and report on the potential causes, and find solutions to any deeper systems related issues.

# THOUGHT LEADERSHIP FOR THE BUILT ENVIRONMENT

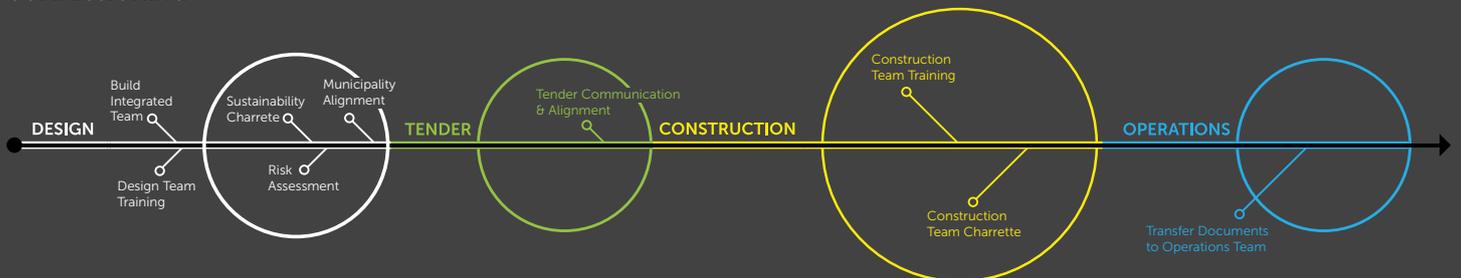
## SUSTAINABLE CONSTRUCTION



## BIM PROCESS



## COMMISSIONING



# ALPIN APPROACH

## OUR FORENSIC SERVICES:

### MEP Failure Analysis and Claim Support

Delivery of concise, accurate reports and recommendations into MEP failures that will prove a powerful tool in claims related cases.

### Expert Witness / Litigation Support

Our forensic specialists' expertise and background in design, construction, commissioning, BIM and sustainability means they are highly qualified to present and support during legal proceedings.

### Investigation into Cause and Origin of MEP issues

We have the specialist tools and knowledge to get to the root of even the most problematic and complex of MEP issues.

### Humidity Control Analysis

We analyze and solve any issues relating to thermal comfort, mold or mildew, to save energy and greatly enhance a building's internal environment for its occupants.

### Identifying Indoor Air Quality Issues

Indoor air pollutants can have a direct impact on an occupant's comfort and health. Our forensic specialists have the tools to analyze and control common culprits or solve MEP failures that might be causing the problem.

### Resolving System Control Issues

We get to the heart of issues relating to failure or defects within the operation of system controls.

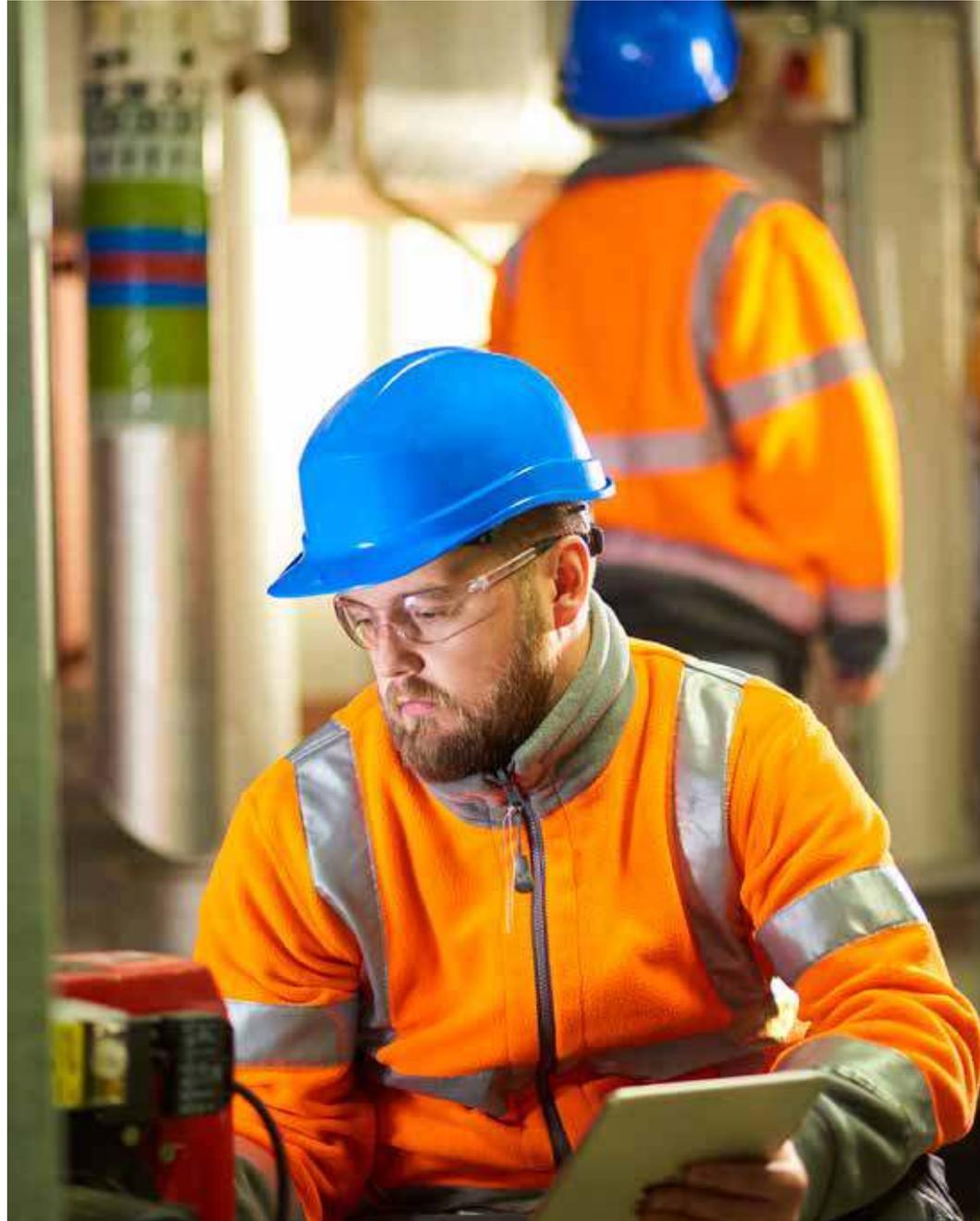
### Forensic Information Modelling (Integrated with Alpin BIM)

We have the high tech tools and software to analyze, collate and define forensic details relating to MEP systems and structures.

*"It continues to be my pleasure to work with Alpin and to experience your level of integrity, service and expertise"*

– **Bob Wolstenholme**

Wates & Al Fara'a JV (Abu Dhabi Future Schools Project)





## OUR TEAM

### Internationally Experienced

Our consultants have worked in nearly every region of the world. They represent five continents and between them speak eleven languages. Having lived and worked in different countries, they fundamentally understand the dynamics within and between markets. All of our consultants have hands-on emerging markets experience.

## FORENSICS LEADERS

### Jourdan Younis

Managing Director (American)

Jourdan continues to build a robust consulting firm known for its commitment to quality and professionalism. Jourdan holds an MBA from London Business School and a BSc in Construction Management from California Polytechnic. He takes great pride in making a positive impact in the cleantech industry, exceeding client expectations and making Alpin a truly exceptional organization to be part of.

### Rami Ghanem

Technical Operations Manager

Rami is a Mechanical Engineer who holds a Master's Degree in Building Services Engineering from Heriot Watt university Edinburgh UK with 11 years In Design, Supervision and Commissioning of Building services. He is deeply specialized in Commissioning, Energy Value Analysis, Renewable Energy Studies (Solar Cooling and Solar Heating) and has strong experience in project management and in electromechanical systems.

### Nareg Oughourlian

Strategic Consultant

Nareg is a Construction Professional with a background in Mechanical Engineering who has advised developers, consultants, and contractors on the integration of sustainability in the built environment. With extensive experience in Sustainability and Commissioning for the built environment, he is leading our business unit and to leverage our value added services to partners and clients while ensuring that Alpin's core values are reflected and manifested.

## CONTACT INFORMATION

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