

Objectives

By the end of this session you will...

Have a greater understanding of flat roofing systems and how they can be tailored to meet specific project requirements.



Agenda

1 A Bit About Us

2 Design and Specification

3 Responsibilities

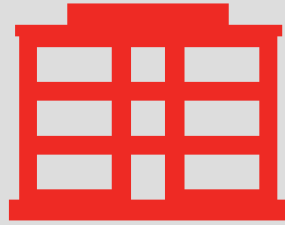
4 What Are The Options?

5 Innovations In Sustainability

6 What's Next?



Why Flat Roofing?



Flat roofing is one of the most effective and cost effective forms of roofing for modern construction



Flat roofing easily accommodates the most stringent thermal and acoustic performance

It offers the flexibility in design, installation and use which is difficult to achieve with any other form of roofing

Correctly designed and installed, and using the right materials, will give long term, trouble free performance.

Ask The Right Questions

What will the finished building be used for?

Residential



Healthcare



Education



Commercial



Industrial



What is the height and the location of the building?

Multi-storey
or low rise



City centre
or coastal
location



What will the finished flat roof be used for?

Amenity roof
(roof garden)

High degree of plant
and equipment
(plan service
penetrations early)

Solar panels

Choose the Right Product

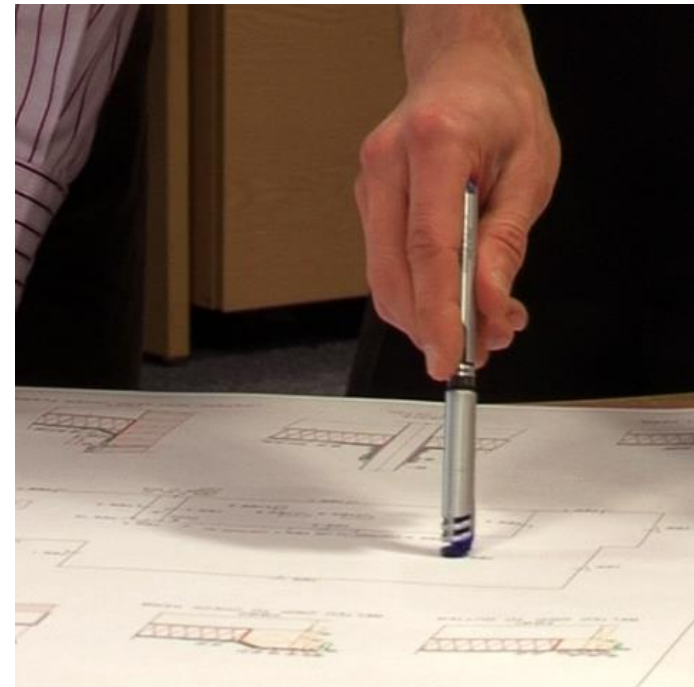
Roof Considerations	Hot Melt Systems (Inverted Roof Only)	Bitumen Membranes	Polymeric Single-Ply	Mastic Asphalt	Cold Applied Liquid
Flame Free Application	No	Yes	Yes	No	Yes
Roof Garden	Yes	Yes	No	Yes	Yes
Roof Terrace/Balcony	Yes (1)	Yes (1)	No	Yes	Yes
Zero Degree Falls	Yes	No	No	No	Yes
Roof Car Park	No	No	No	Yes	Yes
High Internal Building Humidity/Temperature	No	Yes (2)	Yes (2)	Yes (2)	Yes (2)
Frequent Plant Maintenance Expected	Yes	Yes	No	Yes	Yes
Lightweight Roofing	No	Yes	Yes	No	Yes

(1) – Additional surface protection required

(2) – Warm roofs only



Design Considerations



Building use	Location	Substrate	Site access and control
Building Regulations English: Parts: B, C, E, H, L Scotland: Section 1, Part 2, 5 & 6	British Standards BS6229, BS8217, BS5250, BS8000, BSEN12056	CDM requirements	Method of application
Aesthetics	Material selection	Falls and drainage	Thermal and sound performance
Design detailing	Installation and assessment	Maintenance	Environmental impact

Guarantee Options

5 Year to 30 Year
Guarantee Options



Guarantee Cover;
Materials
Design
Workmanship

Insurance backed
(consequential
loss)

System
components
included

Single point
materials
guarantee

Site
inspections
required



A Hybrid Roofing System

Single Layer Bituminous Membrane System

3.Parcel Roof

2.Platform Roof

1.Concourse

Cold Liquid Applied System



137 Roof Lights
in Total

