



MODULE SPECIFICATION

Part 1: Information			
Module Title	Weathertightness		
Module Code	UBLMH5-15-M	Level	Level 7
For implementation from	2020-21		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Architecture and the Built Environment
Department	FET Dept of Architecture & Built Environ		
Module type:	Standard		
Pre-requisites	None		
Excluded Combinations	None		
Co- requisites	Introduction to Façade Systems 2020-21		
Module Entry requirements	None		

Part 2: Description
<p>Overview: Co-requisites: Students must have already completed or be currently enrolled in UBLLYS-15-M Introduction to Façade Systems. This requirement is compulsory for FT and PT students. Advisory for CPD students who only intend to take an individual module.</p> <p>Educational Aims: To provide an understanding of the principles of façade weathertightness, how it can be specified and assessed.</p> <p>Outline Syllabus: Building Façades are required to be weathertight to provide a dry comfortable environment for the building occupants. Failure to satisfy this requirement is a major cause of dissatisfaction for building owners and occupants.</p> <p>Weathertightness includes the ability of the façade to resist air leakage, water penetration and maintain these properties when subjected to windload.</p> <p>This module considers how weathertightness is achieved concentrating on modern methods of façade construction. This will include discussion of design principles in terms of drained and ventilated systems and pressure equalisation and practical application in terms of the use of sealants and gaskets.</p> <p>Specification of weathertightness is generally based on testing and a major part of the course is</p>

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taken up with the details of testing for weathertightness.

As weathertightness requirements are related to wind load the course will include lectures on the assessment of wind loads on Façades.

Teaching and Learning Methods: The module will be delivered by means of:

Lectures and seminars which enable students to support their own independent learning by exploring deeper issues pertaining to Façade Engineering, visiting speakers will be used to provide up to date material and context to the applications of the subject area.

Directed reading examining the key principles and relevant criteria relating to a number of topics of importance to Façade Engineering.

Part 3: Assessment

Component A will be assessed via a video presentation on a real world practical activity which a professional Façade Engineer would need to undertake, modelled around a realistic case study.

Component B is assessed via a Report that tests the assimilation and reflection on weathertightness.

Resit strategy consists on having to rework the failed components so that the students can improve according to the feedback received.

First Sit Components	Final Assessment	Element weighting	Description
Presentation - Component A		25 %	Video Presentation on a weathertightness design issue (7-10 mins)
Report - Component B	✓	75 %	Report on a weathertightness testing issue (2500)
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Part 4: Teaching and Learning Methods																	
Learning Outcomes	<p>On successful completion of this module students will achieve the following learning outcomes:</p> <table border="1"> <thead> <tr> <th style="text-align: left;">Module Learning Outcomes</th> <th style="text-align: left;">Reference</th> </tr> </thead> <tbody> <tr> <td>Identify weathertightness criteria and appropriate testing. (Component A)</td> <td>MO1</td> </tr> <tr> <td>Identify factors which influence the design of joints and seals in Façades. (Component A)</td> <td>MO2</td> </tr> <tr> <td>Assess the likely movement of moisture within walls (Component B)</td> <td>MO3</td> </tr> <tr> <td>Understand the factors which influence the wind load on Façades (Component B)</td> <td>MO4</td> </tr> </tbody> </table>	Module Learning Outcomes	Reference	Identify weathertightness criteria and appropriate testing. (Component A)	MO1	Identify factors which influence the design of joints and seals in Façades. (Component A)	MO2	Assess the likely movement of moisture within walls (Component B)	MO3	Understand the factors which influence the wind load on Façades (Component B)	MO4						
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Reading List	<p><i>The reading list for this module can be accessed via the following link:</i></p> <p>https://uwe.rl.talis.com/modules/ublmh5-15-m.html</p>																

Part 5: Contributes Towards	
This module contributes towards the following programmes of study:	