

# Environmental and Design Challenges for Sliding Doors



**AACA Competency:** Design

**Module Outline:** Sliding doors are used on nearly every building in each and every sector of our industry.

Entrance doors to a public building, a residential building, a breakaway area or courtyard, which has become more apparent on high rise commercial buildings.

These glazing products are been installed in locations which will test them and their limitations to the absolute maximum, mainly the structural strength due to increased wind loads higher up the building as well as water tightness.

Not to mention the fact that these doors are expected to span over 3 metres in some of the most exposed locations on the building.

Throughout this module we will be looking at sliding doors and the different variations of sliding doors. We will explore the environmental impacts, design considerations and common issues that require consideration when specifying sliding doors. We will look in closer detail to building movement and the subsequent effect that this has on the building remaining air tight, its acoustical performance, and water leakage.

## Learning Objectives:

1. Describe the different types of sliding doors suitable for project applications 4:4.6.

2. Document the performance requirements when selecting sliding systems 4:4.7.
3. Describe how building movement can affect the performance & operation of sliding doors 3:3.3.

**Module Presenter:** Andrew Vickery has been in the fenestration industry for 22years, working as a fabricator/installer of aluminium systems for 15 years with the last 7 years spent with aluminium system design companies.

To keep up with technological advancements, Andrew embarked on some industry specific training courses with the Centre for Window & Cladding Technology (CWCT) located at Bath University. These training courses were short courses taken from the Façade Engineering MSC which is now offered at UWE in Bristol where Andrew decided to undertake further education. The short courses include Curtain walling design and construction, Structural performance: Loading, and Structural performance: Structural checking and Eurocodes

In 2015 Andrew graduated with a Master of Business Administration (MBA) with a focus on global financial strategy and change management.

Andrew's involvement with Reynaers Aluminium started in 2010. Andrew has worked as a Project consultant for Reynaers UK offering technical advice to architects and consultants on projects across the UK. His success in the UK market led him to the role he holds with Reynaers Australia today where he is striving to introduce Australian specifiers to products that will improve the spaces that we live and work in whilst playing our part in reducing the carbon footprint we leave for future generations.

**Duration:** 1 hour

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