



## MCRMA CPD APPROVED GUIDANCE DOCUMENTS

MCRMA's CPD portfolio provides guidance and training on a range of common industry topics and are based on MCRMA's guidance documents which have been drafted by industry experts from across the MCRMA membership.

The CPDs are ideal for busy professionals; they are flexible and provide 'learning on the go' as the course material can be studied both online and offline, on mobiles, tablets and print. This series of informative self-study training delivers good learning value and is recognised as a training with CPD value.

There is an online assessment component to verify knowledge and following the successful online completion of a CPD, a certificate can be downloaded and printed for the user's personal records.

MCRMA's online CPD programme is open to anyone seeking to develop their knowledge and skills within the metal building envelope sector. Each module also offers members of professional institutions an opportunity to earn credits towards their annual CPD requirement.

**Note:** Unless otherwise stated, all CPDs have a value of 60 minutes or equivalent.

The MCRMA online CPDs are available at <https://mcrma.co.uk/online-cpds/>



## **APPROVED CPDs**

### **GD10 Working at heights: a fall prevention and safety checklist**

Roofing technologies, material guarantees and the growth in the use of renewable energy technology systems for example, photovoltaic panels (PVs) make it important to understand specific requirements for access, inspection and maintenance at roof level.

This CPD introduces the key issues that need to be considered to ensure that these requirements are fully understood and that safe work at height must be considered from the outset on any project.

### **GD15 Guidance for wind loadings on roof and wall cladding**

Buildings and their cladding are expected to withstand the worst that the weather can throw at them without risk of failure or loss of function. The CPD explains the factors which can influence the wind loading and the zonal changes around the building envelope.

This CPD introduces the reader to the key issues that need to be considered when calculating wind loadings on both the roof and walls of industrial and commercial buildings.

### **GD16 Guidance for snow loading on cladding**

Heavy snow falls can result in damage to roofs and their supporting structures. Good building design in terms of resistance to snow loading starts with the correct specification of the roof cladding and its supporting structure.

By following the recommended calculation procedures, building designers can ensure that the roofs of their buildings do not collapse.

### **GD17 A guide to site installation of insulated roof panels**

The performance of any building envelope is highly dependent on a number of factors, not least of all the correct installation of the roof. This CPD outlines the key issues that need to be considered when installing an insulated roof panel system.

### **GD19 Effective sealing of end lap details in metal roofing constructions**

This CPD introduces the user to key issues that need to be addressed to ensure the effective sealing of end laps in metal roofing constructions. The CPD covers the following combinations – profiled metal to metal; profiled metal to rooflight; sandwich panel to panel and sandwich panel to factory assembled rooflight.

## **GD20 Serviceability states and deflection criteria guidance**

In structural engineering, serviceability refers to the conditions under which a building is still considered useful. This CPD sets out an overview of the issues that need to be addressed to meet the performance criteria identified by the building designer.

The CPD explains the importance of setting the deflection criteria at the design stage and implementing them at the construction stage to ensure that all elements of the construction perform as expected. The CPD also includes guidance on installation tolerances for purlins and rails supporting profile metal roof sheeting and wall cladding.

## **GD24 Installation of purlins and side rails**

The ability of a steel framed building to perform adequately depends on good interaction between the secondary steelwork and the cladding; and crucial to this interaction is the correct installation of the purlins and side rails.

This CPD illustrates how deviation from the correct tolerances can affect the performance of not only the cladding system and its fixings but also of associated components such as gutters and flashings.

## **GD26 Aluminium fabrications: a guide to good practice**

This CPD provides the user with theoretical and practical guidance in the design and specification of aluminium fabrication, including fasteners and sealants.

The CPD discusses the principal approaches of the widely used fabrication fixing methodologies of dead fix and floating fix, examines the effects of thermal movement and provides guidance on correct fastener specification. *(CPD value 120 minutes or equivalent)*

## **GD27 Installed tolerances: best practice**

The purpose of this CPD is to make the cladding sub-contractor aware of the relevant tolerances that are allowed in the fabrication and erection of the main steel frame. It is important that the installation and deflection criteria are set at the design stage and implemented at the construction stage to ensure that all elements of the construction perform as expected and that the interface, interaction and fit between components and systems meet with expectations.

## **GD28 Mineral wool insulation installation: best practice design guide**

Insulating a building is one of the most cost-effective ways of saving energy and reducing heating and cooling bills. Installation practices at the construction phase must ensure that the insulation of the building fabric meets with design stage calculations, manufacturer's guidance and Building Regulations.

This CPD sets out an overview of the factors that need to be considered in the storage, handling and installation of mineral wool insulation in built-up metal roof and wall cladding systems.

### **GD29 Manufacturing tolerances for profiled metal roof and wall cladding**

This CPD introduces the user to the key requirements that need to be considered when assessing manufacturing tolerances for profiled metal roof and wall. *(CPD value 30 minutes or equivalent)*

### **GD31 Pre-laminated membrane and factory assembled insulated pre-laminated membrane gutters**

This CPD provides the user with best practice advice on the specification of pre-laminated and factory assembled insulated pre-laminated membrane gutters associated with metal-based roofing systems for industrial, commercial and warehouse applications.

The CPD defines terminology used and provides advice about structural design, design capacity and thermal performance. It deals with the thermal welding of the polymeric membrane and the importance of carrying out sample QA peel tests to set welding parameters during the installation process.

### **GD33 Fasteners for metal roof and wall cladding: design, detailing and installation guide**

This CPD provides the user with a comprehensive best practice guide on the selection, use and performance of fasteners designed for use within the popular metal roofing and cladding systems selected by the UK market for modern industrial, commercial and residential buildings.

The CPD defines the terminology used, the different types of fasteners available, performance criteria, detailing, installation and tooling. *(CPD value 120 minutes or equivalent)*

### **GD34 The definition of cladding within the construction sector**

The word 'cladding' is widely used as a generic term to reference an element, product, assembly or system used within a wall construction. This CPD sets out to define the different meanings for the word cladding when used to describe products, materials and systems for a wall within construction projects and to ensure that the term is used in the correct context.

The CPD covers single skin, built-up assemblies, metal rainscreen façade systems, sandwich panels. It is an informative self-study training which can increase participants' knowledge and offer CPD and learning value. *(CPD value 30 minutes or equivalent)*

### **GD35 Aesthetics: assessment and evaluation of cosmetic imperfections or damage**

'Aesthetics' within the context of building is used to describe the positive appearance of colour, form and details used within the area of the roof and façade. However, it can also be used to describe imperfections which may require visual improvement.

This CPD provides advice about how to assess and evaluate an aesthetic or cosmetic imperfection and explains possible reasons for the flaw and offers advice about how the subject can be resolved or rectified. *(CPD value 120 minutes or equivalent)*

### **GD36 Cavity barriers for ventilated rainscreen façades**

Most modern buildings contain a multitude of concealed cavities and voids within or passing through walls, floors, ceilings and roofs. Effective fire stopping and cavity barriers are essential to restrict the spread of smoke or flames, and to maintain compartmentation. Cavity fire barriers are an essential element of fire protection.

This CPD sets out to consider the key questions about cavity barriers and offers guidance for their correct specification. It is a useful self-study training with an online assessment component to verify knowledge. It is a training with learning and CPD value.

### **GD39 Sustainability and durability of metal roofing and cladding systems Section 1: Introduction and overview**

Metal roofing and cladding systems and their associated components can significantly contribute to achieving a sustainable building envelope solution to meet both current and future needs and requirements, thanks to their low maintenance, durability, high recycled content, recyclability and energy efficiency.

This CPD sets out to consider a range of sustainable building design solutions and offers guidance for the correct specification of a range of sustainable high performance complementary components and systems. *(CPD value 90 minutes or equivalent)*

### **GD39 Sustainability and durability of metal roofing and cladding systems Section 4: Durability of metal roofing and cladding systems**

The aim of current UK government policy is to achieve net zero by 2050 and one way that can assist in this is through having buildings built for durability with long design lives and utilising materials, products and systems to construct them that can match the desired design life.

This CPD examines how Life Cycle Costing can be used to consider all relevant costs to ensure value for money over the life of a building.

### **GD39 Sustainability and durability of metal roofing and cladding systems Section 5: Metals: steel and aluminium**

Metal roofing and cladding systems and their associated components can significantly contribute to achieving a sustainable building envelope solution to meet both current and future needs and requirements, thanks to their low maintenance, durability, high recycled content, recyclability and energy efficiency.

This CPD examines in detail the two most common metals used for manufacturing profiled roofing and cladding sheets are mild steel, especially in a colour coated format, and aluminium.