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CPD Overview

Tata Steel provides a comprehensive range of products and techniques to create value for the construction industry and support sustainable development. The company works closely with its customers to deliver solutions aimed at improving cost-effectiveness and speed of construction, increasing the functionality and performance of buildings and infrastructure. The goal is to reduce the consumption of resources, including energy, both in the original construction process and in ongoing usage. The construction industry is Tata Steel's largest single market globally, and the Group offers a range of products and systems – including Celsius structural hollow sections, ComFlor and RoofDek decking, Trisomet, Trimapanel and Trisobuild building envelope systems, and Colorcoat pre-finished steel. Among its credentials, the company supplies the widest range of construction products certified to BES 6001, the responsible sourcing standard. In addition to the product range, it has a team of experienced construction professionals, including structural engineers and architects, who can advise on optimal use of the products in your building to ensure that you meet your client's requirements, Building Regulations and planning requirements.



Available CPD Material (18)



Multiple formats

CDM Regulations 2015 and their Impact on Building Envelope Specification

The CPD will provide the attendee with guidance on the key changes between the 2007 and 2015 revision of the CDM Regulations. This is an update from our previous RIBA approved CDM CPD.

The CPD outlines the key changes and the background to these changes, including specific duties of the different stakeholders within a project delivery.

The presentation then covers considerations for the specification of pre finished steel cladding systems to ensure performance is as specified.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Health, safety and wellbeing**
Legal, regulatory and statutory compliance

Knowledge level: General Awareness



Multiple formats

Colour in the Built Environment

This seminar is about the use of colour in the built environment. It will help you to understand the following topics:

The principles of colour and how we see colour.

The different colour measurement and classification systems.

Principles behind the development of a colour palette.

How to measure colour differences and colour matching tools and procedures.

This CPD can be delivered to you as face to face or as a live webinar.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness



Multiple formats

Pre-finished Steel Standing Seam Systems for Roof and Wall Cladding

This CPD aims to provide an introduction to standing seam roof and wall systems, appreciating historical application and modern-day contemporary use.

Topics discussed include the aesthetic and durability performance of steel in standing seam systems, build up methods and detailing, installation and building regulations including Part L, fire, and acoustics, sustainable eco credentials and examples of standing seams in situ.

By the end of the seminar, you should have a greater understanding of:

1. Aesthetic effects and details achievable with a standing steel system.
2. Different build up methods.
3. Key performance criteria when selecting steel material for standing seam systems.
4. Sustainability credentials associated with standing seam steel systems, as well as the renewable energy options available.

This CPD can be delivered to you face to face or as a live webinar.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness



Multiple formats

Structural Roof Decking in Construction

This structural roof decking CPD seminar provides an insight into the use of metal deck roofing systems. It addresses the key issues to be considered when specifying a structural roof-deck built up construction options and advantages, roof deck profile range, CE Marking, coatings, environmental and sustainability issues, installation, non fragility, penetrations, curved roofs, cantilevers, acoustics, loadings, software, diaphragm design and case studies.

It will help you to understand the following topics:

- The benefits of choosing steel roof decking
- The basics of diaphragm design
- The environmental benefits of steel roof decking
- Acoustic performance from metal decking
- What applied loadings to expect.

This CPD can be delivered to you live and remotely.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness



Sustainable Refurbishment Solutions for Non-domestic buildings

This seminar will cover the following topics:

Main reasons and drivers for refurbishment.
Part L2B and key requirements.
Main types of refurbishment solutions available.
Technical processes involved in delivering refurbishment solutions.
Main hazards and risks that can be encountered during refurbishment.
How these risks can be managed and overcome.
The sustainable nature of refurbishment:
Improving energy performance.
Reducing Co2 emissions.
Pack-back periods for refurbishment projects.
Integration of renewable technologies in refurbishment projects.
Refurbishment case studies.

This can be delivered to you face to face or as a live webinar.

Material type: Seminar
RIBA Core Curriculum: **Design, construction and technology**
Sustainable architecture
Knowledge level: General Awareness



Steel Cladding Systems for Buildings

The CPD will provide the attendee with details of the fundamental differences between different metal cladding systems.

The CPD outlines the key performance criteria for the building envelope and how the different systems can perform.
The presentation covers some of the sustainability credentials of metal cladding systems.

By the end of the CPD you should have a greater understanding of:
The different types of cladding system.
The main performance requirements of the building envelope and how metal cladding systems can Perform.
The importance of correct specification design and installation to ensure the performance of cladding/roofing is as designed/specified.

Material type: Seminar
RIBA Core Curriculum: **Design, construction and technology**
Knowledge level: General Awareness



Building Integrated Renewable Energy

The CPD will provide the attendee an overview of the drivers and background for renewable energy systems and their integration into the building design.

The CPD outlines the key performance criteria for PV systems and transpired solar collectors which are the technologies most suitable for integration into the building envelope.

The presentation briefly covers ground source heat pumps and their effect on Part L compliance and their impact on other technologies.

By the end of the CPD you should have a greater understanding of:

The background and development of PV and TSC technologies.

The main performance criteria for TSC and PV technologies.

The building design implications of installing PV and TSC technologies.

How renewable technologies and ground source heat pumps interact and can be combined as a Part L compliance strategy.

Material type: Seminar

RIBA Core Curriculum: **Design, construction and technology**
Sustainable architecture

Knowledge level: General Awareness



Multiple formats

Part L 2021 edition: The Role of the Building Envelope in Compliance for Non-Domestic Buildings

The CPD will provide the attendee with guidance on the key changes between Part L 2013 and Part L 2021 edition as an interim step before the Future Buildings Standard in 2025. This is an update from our previous RIBA approved Part L CPD which was based on 2013 edition but covers the considerations around methodology and compliance covering National Calculation methodology, SBEM and the Notional building. It covers the main themes for new build but also features considerations for refurbishment.

The focus of the CPD is not to show different scenarios with modelling but a highlight of the main changes, what they mean and the implications to consider as a result. This looks at the changes from a holistic/general approach to compliance from a building envelope perspective.

Please note that this is available as face to face or a live webinar.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Legal, regulatory and statutory compliance**
Sustainable architecture

Knowledge level: General Awareness



Factory Tour: Pre-finished Steel and the Manufacturing Process

This CPD takes the visitor on a tour of Europe's largest pre finished steel manufacturing facility, at Tata Steel Limited, Shotton Works, Deeside. The guided tour encompasses all aspects of the production process.

The tour is completed by a technical presentation, which provides additional detail about the manufacture, testing, specification, and utilisations of the products. The total duration of the visit is half a day.

Material type: Factory Visit

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness



Multiple formats

Specifying Metal Clad Envelope Systems in Accordance with ADB2 of the Building Regulations and the Value of Large-Scale System Testing.

This CPD provides an overview of the building regulations in relation to fire for non domestic buildings in England (ADB2). These were published in August 2019 and focus on elements that mostly influence the specification of the building envelope products (i.e., roofs and walls). The CPD also looks at the additional need for insurance approval and the use of large scale testing to gain this approval, as well as how insurance approved products perform in real life fires.

By the end of the presentation, you should have a greater understanding of:

The recommendations in ADB2 for specification of roof and wall products in England.

The test methods used to rate roof and wall products within ADB2.

The need for insurance approval on non domestic buildings in the UK and the tests required to gain this approval.

How to identify the correct fire regulation for your UK project.

How to specify a roof or wall system in relation to its fire performance to regulation recommendations for non domestic buildings in England.

This can be delivered to you face to face or as a live webinar.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**
Legal, regulatory and statutory compliance

Knowledge level: General Awareness



Multiple formats

The RIBA 2030 Climate Challenge: How steel building envelope solutions contribute

This CPD will provide the attendee with guidance on the specification and construction of low carbon and low environmental impact buildings. It will examine operational energy including the fabric first approach, efficient services, and low carbon heat, maximising onsite renewables and minimum offsetting using UK schemes.

Following this, it will discuss embodied carbon, potable water and best practises for health metrics, using these topics to question how we can meet the RIBA 2030 Climate Challenge.

By the end of the CPD you should have a greater understanding of:
How to make design decisions by embedding sustainable practices within your specifications.
How you can more easily meet the targets of the RIBA 2030 Climate Challenge by utilising locally sourced and sustainably manufactured steel building envelope solutions.

This can be delivered to you face to face or as a live webinar.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**
Sustainable architecture

Knowledge level: General Awareness



Multiple formats

Steel Building Envelope Systems for Non-Domestic Buildings

This seminar covers the following topics:
Overview of different steel roofing and cladding systems.
Structural performance.
Internal and external environments.
Weather tightness and installation.
Conservation of heat and power.
Fire performance.
Insurance requirements.
Acoustic performance.
Sustainability.
Integration of renewable technologies.
Case studies.

This can be delivered to you face to face or as a live webinar.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**
Sustainable architecture

Knowledge level: General Awareness



Multiple formats

Building Integrated Renewable Technologies for Non-Domestic Buildings'

This seminar covers the following topics:

- Legislation and the drive towards zero carbon buildings.
- Comparison of renewable technologies.
- Options for integration of renewables into building envelope.
- Transpired Solar Collectors.
- Performance parameters:
- System variants.
- Control
- Payback periods.
- Case studies.
- Photovoltaics:
- Different types of PV system.
- Factors affecting performance.
- Installation.
- Maintenance.
- Warranties (of PV and substrate).
- Payback periods.
- Case studies.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**
Sustainable architecture

Knowledge level: General Awareness



Multiple formats

Sustainable Refurbishment Solutions for Non Domestic Buildings

This seminar will cover the following topics:

- Main reasons and drivers for refurbishment.
- Part L2B and key requirements.
- Main types of refurbishment solutions available.
- Technical processes involved in delivering refurbishment solutions.
- Main hazards and risks that can be encountered during refurbishment.
- How these risks can be managed and overcome.
- The sustainable nature of refurbishment:
- Improving energy performance.
- Reducing Co2 emissions.
- Payback periods for refurbishment projects.
- Integrations of renewable technologies in refurbishment projects.
- Refurbishment case studies.

This can be delivered to you face to face or as a live webinar

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness



Multiple formats

Acoustic Performance of Pre-finished Steel Cladding Systems

Pre finished steel cladding systems can form the basis of an acoustically high performance building envelope. The actual requirements will be building specific, but where improvements are needed over the standard systems there are some simple guidelines that can be followed.

The guidance given in this CPD will help building designers to achieve the optimum acoustic performance from their building envelopes.

This CPD can be delivered to you face to face or as a live webinar

Material type:	Literature, Online Learning
RIBA Core Curriculum:	Design, construction and technology Legal, regulatory and statutory compliance
Knowledge level:	General Awareness



Multiple formats

Creating an Air Tight Building Envelope - Technical Paper

This technical paper provides guidance on the factors which affect the building envelope heat losses and quantify the typical air tightness performance of metal cladding joints.

This information can then be used when specifying the design requirements of a project to achieve Part L compliance.

Material type:	Literature, Online Learning
RIBA Core Curriculum:	Design, construction and technology Sustainable architecture
Knowledge level:	General Awareness



Multiple formats

Structural Performance of Built-up Roof and Wall Cladding Systems Technical Paper.

This technical paper aims to give the specifier a good understanding of what structural performance should be expected of a cladding system.

It addresses the structural aspects of the specification of a built up cladding system and considers the necessary load paths in the cladding design. Architects and specifiers will have a clear understanding of the behaviour of individual components and the interaction between them.

This can be delivered to you face to face or as a live webinar.

Material type:	Literature, Online Learning
RIBA Core Curriculum:	Design, construction and technology
Knowledge level:	General Awareness



Multiple formats

Steel for Roofing and Wall Cladding

This seminar will cover the following topics:

Manufacturing process.

Steel substrate and properties:

Gauge.

Galvanising.

Different paint system properties and performance.

Structural performance.

Fragility, Health and Safety and compliance with CDM Regulations.

Aesthetics.

Durability and testing:

Corrosion resistance.

UV resistance.

External and Internal environments.

Aggressive environments.

Fire performance.

Part L and contribution of systems.

Acoustics.

Sustainability.

Guarantees.

Case Studies.

This can be delivered to you face to face or as a live webinar.

Material type: Online Learning, Seminar

RIBA Core Curriculum: **Design, construction and technology**

Knowledge level: General Awareness

Classifications

Subject/Product Areas (CI/SfB)

Structure

Roofs, including beams > Roof decking - metal

Roofs, including beams > Roof decking - other materials

Finishes

Finishes > Metal panels, sheets

Wall finishes: external > Sandwich cladding

Roof finishes > Sheet roof claddings

Wall finishes: external > Wall cladding panels

General products

Paints, varnishes, protective treatments etc. > Coatings and finishing treatments for metals

RIBA Core Curriculum areas

Health, safety and wellbeing

Knowledge level: *General Awareness*

Legal, regulatory and statutory compliance

Knowledge level: *General Awareness*

Design, construction and technology

Knowledge level: *General Awareness*

Sustainable architecture

Knowledge level: *General Awareness*