



Morrisons supermarket uses Colorcoat Prisma® on the walls and Colorcoat HPS200 Ultra® on the roof.

CPD seminars from Tata Steel

Tata Steel has 50 years experience in the manufacture of pre-finished steel through the Colorcoat® brand. Concern for the environment in which we work is one of our key business principles. Our objectives are to adopt sustainable practices and to continuously improve our performance. Colorcoat® provides the recognised mark of quality and metal envelope expertise from Tata Steel. We offer a range of CPD seminars that are delivered by a dedicated specification team as listed on the following pages.

1. CDM regulations 2015 and their impact on steel building envelope specification.

- History and background to the CDM Regulations and key principles.
- Role of the HSE and enforcement.
- Key changes implemented in 2015.
- Roles and responsibilities.
- Focus on the Principal Designer and Client Roles.
- Implications for building envelope specification.
- Design phase, construction phase and in use / maintenance phase.
- Correct specifications and case studies.

2. Roof mounted photovoltaic systems for non-domestic buildings.

- Drivers for renewable technologies and roof mounted PV.
- Different types of PV system.
- Factors affecting PV performance.
- Implications for roof mounted systems.
- Installation, inspection and maintenance.
- Guarantees for both PV and roof substrate.

- Financial incentives (UK Govt).
- Funding mechanisms.
- Payback periods.

3. Part L 2013 and future changes: The role of the building envelope in compliance for non-domestic buildings.

- Drivers for changes to Part L.
- Review of revisions to Part L since 2002 to present day.
- Proposed changes.
- Methodology and Calculations.
- BER and TER.
- Assessment of building envelope parameters and variations.
- The impact of correct/incorrect detailing.
- Cost effective routes to gaining compliance.
- Sourcing low and zero carbon (LZC) energy and its impact.
- Case studies.

4. Building Integrated Renewable Technologies for non-domestic buildings.

- 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.
 - Calculations and software.
 - Payback periods.
 - Case studies.
- Photovoltaics.
 - Different types of PV system.
 - Factors affecting performance.
 - Installation.
 - Maintenance.
 - Warranties (of PV and substrate).
 - Payback periods.
 - Case studies.

To register for your CPD seminar visit: www.colorcoat-online.com/cpdseminars

5. Sustainable low carbon non-domestic buildings.

- Legislation and the drive towards zero carbon.
- General approach to low carbon buildings and basic principles.
- Materials of construction and embodied energy.
- Deconstruction, recycling and end of life.
- In use phase and operational energy.
- Compliance with current legislation and guidance.
- Impact of the building envelope.
- Incorporating renewable energy.
- BREEAM overview.
- Case studies.

6. Steel building envelope systems for non-domestic buildings.

- 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.

7. Sustainable refurbishment solutions for non-domestic buildings.

- 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.
- Integration of renewable technologies in refurbishment projects.
- Refurbishment case studies.

8. Importance of air-tightness in non-domestic buildings for Part L compliance.

- Drivers for changes in airtightness levels.
- Requirements of Part L2A 2013.

- Impact of air-tightness performance.
- Assessment of steel building envelope systems.
- Achieving airtightness for different building envelope systems.
- Correct and incorrect detailing and its impact.
- Site practice and installation.
- Case studies.

9. Steel for roof and wall cladding.

- 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.

10. Factory tour.

- 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 utilisation of the products. The total duration of the visit is half a day.

11. Colorcoat® product update.

- Relative product performance and positioning.
- Colorcoat HPS200 Ultra®.
- Colorcoat Prisma®.
- Technical properties.
 - Corrosion resistance.
 - Resistance to UV.
 - Testing.
- Internal environments.
 - Aggressive environments and warranties.

- Rainscreen applications.
- Confidex® Guarantee.
 - Features and conditions.
- Sustainability features.
 - Environmental Product Declarations (EPD's).
 - Manufacturing standards.
 - Certified to BES 6001 as responsibly sourced.
- Renewable energy.

12. Colorcoat Renew SC® transpired solar collector online CPD

- Legislation and the drive towards zero carbon.
- System introduction.
- Performance parameters.
- Operational benefits.
- Design considerations.
- Calculations and software
- Payback periods.

View at: <http://fastrackcpd.core-portal.co.uk/>

Seminar duration

1 hour each.
The factory tour is 170 minutes.
The online CPD is 15 minutes.

Also available

Literature and material samples.

Areas covered

UK and Republic of Ireland.



CPD's 1-10 are RIBA approved.

To register for your CPD seminar visit: www.colorcoat-online.com/cpdseminars

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