

| METU - FACULTY OF ARCHITECTURE, DEPARTMENT OF ARCHITECTURE  |   | SUMMER SEMESTER 2019-2020   |   |
|---|---|---|---|
| ARCH 190- INTRODUCTION TO SURVEYING AND CONSTRUCTION TECHNIQUES   |   | PRACTICE IN BUILDING CONSTRUCTION   |   |
| 30.06.2020, Tuesday   |   | 01.07.2020, Wednesday   |   |
| <b>Company</b> : GUARDIAN GLASS<br><b>Subject</b> : FLOAT GLASS, GLASS PROCESSING AND SELECTION PROCESS<br><b>Presenters</b> : Olcay SEREZLİ, Volkan OSKAY, Arzu İŞIKLI   |   | <b>Company</b> : SİKA<br><b>Subject</b> : CONSTRUCTION CHEMICALS, SELF-LEVELLING FLOORING, CERAMIC FLOORING AND TILING<br><b>Presenters</b> : Berk AYDIN, Onur ÖZ, Hayreddin DEMİREL, Ceren VAROL   |   |
| <b>METU Research Assistants:</b> Nilüfer KIZILKAYA ÖKSÜZ, Beste FAKIOĞLU  |   | <b>METU Research Assistants:</b> Fatih TOPAK, Hüseyin POLAT   |   |
| Timetable   |   | Timetable   |   |
| 10:00-11:45   | <b>GLASS SELECTION CRITERIA FOR FACADE DESIGN</b><br>Who is the Guardian Company?<br>Float Glass Production<br>Differences between UltraClear, ExtraClear and Float Glass<br>What Performance Means? Preparation of Performance Report<br>Descriptions of U value and Solar factor<br>How to Manufacture New Generation Glass Coating<br>Light Transmittance<br>Reflection and Anti-reflective Glass<br>Description of Color Rendering Index  | 10.00-11.30   | <b>FLOORING</b><br>Introduction: Global and Local Presence of Sika<br>About the Presenter: Berk Aydın<br>Flooring Topics<br>Our Focus: Floor Types and Sika's Solutions<br>Defining the Terminology: Introduction to Flooring Applications<br>Flooring Solutions<br>Standard Applications<br>Decorative Applications<br>Electro Static Discharge (ESD) & Electrically Conductive Flooring (ECF) Applications<br>High Chemically Resistant Applications<br>How to Apply<br>Application Demo with Onur Öz |
| 11:45-13:00   | BREAK   | 11:00 – 11:30   | BREAK   |
| 13:00-13:45   | <b>GLASS PROCESSING TECHNIQUES</b><br>Glass Processing, Glass Cutting and Edge Treatments<br>Heat Treated Glass<br>Tempered Glass<br>What is Nickel Sulphate Inclusion (NiS)? How Reduced?<br>Heat Soaking<br>Heat Strengthened Glass<br>Temper-Related Failures and Methods of Failure Detection<br>Laminated Glass<br>Lamination Process Related Material Failures<br>Serigraphy and Digital Printing on Glass<br>Curved Glass<br>Thermal Breakage<br>Double Glazed Units and Insulated Glass | 11:30 – 12:30   | <b>THERMAL INSULATION APPLICATIONS FOR SPECIFIC BUILDINGS</b>   |
| 13:45-14:00   | BREAK   | 12:30 – 13:30   | BREAK   |
| 14:00-15:30   | <b>GLASS SELECTION PROCESS IN BUILDINGS AND CALCULATIONS for STRUCTURAL, PERFORMANCE and ACOUSTICAL ASSESSMENT of GLASS</b><br>History of Glass<br>Glass Selection Process in Buildings and Sample Projects<br>Glass Statics<br>Guardian Performance Calculator and Acoustical Calculator   | 11:30-11:45   | BREAK   |
|   |   | 13:30 – 14:30   | <b>APPLICATION PROCEDURE - EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS (ETICS)</b>  |
|   |   | 14:30 – 15:00   | BREAK   |
|   |   | 15:00 – 16:00   | <b>WHY DO WE NEED INSULATION?</b>   |
|   |   |   |   |
| Supportive References   |   | Supportive References   |   |
| <b>Glass Selection Criteria for Façade Design</b><br><a href="https://www.guardianglass.com/eu/en/about">https://www.guardianglass.com/eu/en/about</a><br><a href="https://www.guardianglass.com/eu/en/tools-and-resources/resources/glass-basics">https://www.guardianglass.com/eu/en/tools-and-resources/resources/glass-basics</a><br><a href="https://www.guardianglass.com/eu/en/tools-and-resources/resources/glass-glossary">https://www.guardianglass.com/eu/en/tools-and-resources/resources/glass-glossary</a><br><b>Glass Processing Techniques</b><br><a href="https://www.guardianglass.com/eu/en/tools-and-resources/resources/glass-glossary">https://www.guardianglass.com/eu/en/tools-and-resources/resources/glass-glossary</a> |   | <a href="https://www.sika.com/">https://www.sika.com/</a><br><a href="https://www.sika.com/en/construction/floor-systems.html">https://www.sika.com/en/construction/floor-systems.html</a><br><a href="https://www.sika.com/en/construction/tile-setting-systems.html">https://www.sika.com/en/construction/tile-setting-systems.html</a>   |   |
|   |   | <a href="https://www.izocam.com.tr/">https://www.izocam.com.tr/</a><br><a href="https://www.schneider-holz.com/fileadmin/redaktion/pdf_EN/Anwendung_Holzfaser/ETICS_EN.pdf">https://www.schneider-holz.com/fileadmin/redaktion/pdf_EN/Anwendung_Holzfaser/ETICS_EN.pdf</a><br><a href="https://cermix.com.tr/catalogues/external-thermal-insulation-composite-systems-catalogue.pdf?download">https://cermix.com.tr/catalogues/external-thermal-insulation-composite-systems-catalogue.pdf?download</a> |   |

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| <b>ARCH 190- INTRODUCTION TO SURVEYING AND CONSTRUCTION TECHNIQUES</b> | <b>PRACTICE IN BUILDING CONSTRUCTION</b> |

| 06.07.2020, Monday   |   | 08.07.2020, Wednesday   |  | 10.07.2020, Friday  |   |
|--|---|---|--|---|---|
| Company : KILIÇOĞLU<br>Subject : CLAY ROOF TILE AND APPLICATIONS<br>Presenter : Mert BIÇAKÇI   |   | Company : MARSHALL<br>Subject : PAINTS AND COATING APPLICATIONS<br>Presenters : Kemal KOÇ, Selçuk KARAMUK   |  | Company : RIGIPS<br>Subject : GYPSUM BOARD AND DRY CONSTRUCTION APPLICATIONS<br>Presenters : Salim ÇAPAR, Kubilay BÜYÜKLÜ, Ali DEMİRHAN, Hasan AKTAŞ  |   |
| METU Research Assistants: Elif BEKAR, Hatice BIYIK   |   | METU Research Assistants: Gökçe Nihan TAŞKIN, Ayça DURAN  |  | METU Research Assistants: Gülnur GÜLER KAVAS, Gizem Nur AYDEMİR   |   |
| Timetable  |   | Timetable   |  | Timetable   |   |
| 9.00 - 9.45  | Function of Roof<br>Roof Anatomy (Main components and elements)<br>Roof Types according to Roof Fall Arrangements<br>Cold Deck/Warm Deck                                  | 10.00-12.00   | <b>THEORETICAL TRAINING</b><br>What is Paint Coat?<br>Components of Paint Coats<br>Paint Coating Systems for Different Surfaces<br>Paint Coating and System Selection by Surfaces<br>Q/A | 09:30 - 10:30   | <b>THEORETICAL TRAINING</b>                                       |
| 10.00 - 10.45  | Roofing Market in Turkey<br>Roofing Requirements<br>Moisture Failure: Condensation<br>Thermal Failures: Heat Loss   | 12.00-13.00   | BREAK  | 10:30 - 11:00   | <b>APPLICATION OF ADHESIVE WALL LINING SYSTEM</b>                 |
| 11.00 - 11.30  | Fire Regulations  |   |  | 11:00 - 11:45   | <b>APPLICATION OF WALL LINING SYSTEM WITH ADJUSTABLE BRACKETS</b> |
| 11.30 - 11.45  | Q/A   |   |  | 11:45 - 13:00   | BREAK   |
| 11:45 - 13:00  | BREAK   |   |  | 13:00 - 13:15   | <b>JOINTING APPLICATION - 1</b>                                   |
| 13.00 - 13.45  | Burnt-clay Roof Tile and Their Technical Properties<br>Microclay Technology<br>Concrete Roof Tile, Descriptions and Technical Properties                                  |   |  | 13:15 - 14:00   | <b>PARTITION WALL SYSTEMS AND APPLICATIONS</b>                    |
| 14.00 - 14.45  | Waterproofing<br>Thermal Insulation<br>Wall-Roof Junction: Apron Flashing, Back Gutter Waterproofing<br>Ridge Tile Underlayment, Ridge Vent<br>Valley Gutter Underlayment |   |  | 14:00 - 14:30   | <b>MONOLITHIC/JOINTLESS SUSPENDED CEILING</b>                     |
| 15.00 - 15.45  | Roof Vent Elements<br>Roof Lights<br>Solar Panels<br>Photovoltaic Panels<br>Roof Discharge Components<br>Work Safety Instructions<br>Company Introduction                 |   |  | 14:30 - 14:45   | BREAK   |
| 16.00 - 16.45  | Roofing System: Waterproofing, Thermal Insulation and Roof Tile Applications  |   |  | 14:45 - 15:15   | <b>MODULAR/PANELLED SUSPENDED CEILING</b>                         |
| 16.45 - 17.15  | Q/A   |   |  | 15:15 - 15:30   | <b>JOINTING APPLICATION - 2</b>                                   |
| Supportive References  |   |   |  | Supportive References   |   |
| <a href="https://www.kilicoglu.com.tr/">https://www.kilicoglu.com.tr/</a><br><a href="https://drive.google.com/drive/folders/1j99dvaAj6PS8Awixpi1_6Rc_PSaavvcS?usp=sharing">https://drive.google.com/drive/folders/1j99dvaAj6PS8Awixpi1_6Rc_PSaavvcS?usp=sharing</a><br><a href="https://www.bmigroup.com/our-solutions/pitched-roofs/clay-tiles">https://www.bmigroup.com/our-solutions/pitched-roofs/clay-tiles</a><br><a href="https://www.marley.co.uk/-/media/9FC1D38934E74F4890C57392DD3DF885.ashx">https://www.marley.co.uk/-/media/9FC1D38934E74F4890C57392DD3DF885.ashx</a> |   | <a href="https://www.marshallboya.com/tr">https://www.marshallboya.com/tr</a><br><a href="http://www.AkzoNobel.com">www.AkzoNobel.com</a><br><a href="http://www.dulux.co.uk">www.dulux.co.uk</a> |  | <a href="https://www.rigips.com.tr/">https://www.rigips.com.tr/</a><br><a href="https://gypsum.org/">https://gypsum.org/</a><br><a href="http://www.gips.de/">http://www.gips.de/</a><br><a href="https://www.eurogypsum.org/">https://www.eurogypsum.org/</a><br><a href="https://gpda.com/">https://gpda.com/</a> |   |

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