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ROOF DESIGN

- POSI ATTICS
  - Design Considerations
  - Pamir Input
  - Manufacturing Details
  - Bracing
  - Product Explanation
  - Do's and Don'ts
  - Limitations
  - Where to Utilize
- MANUFACTURE
  - Truss Production Manual
  - Product Guarantees
  - Mark 8 Press
- POSI-RAFTERS
  - Standard Details
  - Support Details
  - Bracing / Restraint
  - Tilted Posi-rafter Roofs
- REMEDIAL WORKS
  - Responsibilities
  - What Mitek permits in Pamir
  - Notching/Drilling zones
  - Plywood Specifications
- BRACING
  - Responsibilities
  - Wall Bracing
  - Stability Bracing
  - T-Braces
  - Out of Plane Restraint
  - Wind Girders
  - Wind Posts
  - Ply/OSB Bracing
  - Cantilevers / Stubs
  - Attic Strutting
  - Stress Reversal
  - Wall Pate Connection
  - PD 6693-1
- LIFTED ROOFS
  - Design in Pamir
  - Typical Details
- GIRDER CONNECTIONS
  - Nails/Screws/Bolts
  - Factory Connections
  - On site Connections
- MATERIALS
  - Timber
  - Plates
    - General
    - Corrosive Environment
    - Gaps beneth plates
    - Field Splice Plates
  - Posi-Strut
  - Roof Finishes
    - Tiles
    - Flat Roofs
    - Warm Roofs
  - Hangers
    - Hanger Types
    - Manual Design
    - Bearing Lengths
    - Pamir Fabricator Settings
    - Rotated Hangers
  - Plywood
  - Fixings
  - Restraint Straps
  - Other
- FIRE
  - Latest Test Data
  - 30 Min Requirements
  - 60 Min Requirements
- MATHS
  - Trigonometry
  - Units
  - Calculating Loads
- DESIGN FOR MANUFACTURE
  - Match Groups
  - Economy
- DESIGN FOR TRANSPORT
  - Height Restriction
  - Length Restriction
- DESIGN FOR ERECTION
- TRUSSES / FRAMES
  - Ways to Frame
  - Trusses or infill
  - Where to use girders
  - Gable Ladders
    - Gable Ladders - Non Structural Items in Pamir
  - Web Selection
  - Cut Trusses
  - Feature Trusses
  - Valley Trusses
  - Reinforcement / Scabs
  - Multi-Part Trusses
    - Field Splice plate
    - Pole Plate / Lapped
  - Attic Trusses - Non-standard support details
- ROOF FEATURES
  - Gable
  - Hip
  - T Intersection
  - Attic
  - Raised Tie
  - Raising the Roof
  - Dog Leg
  - Openings
    - Roof Light Tolerances
    - Framing at Roof Lights
  - Dormers
  - Towers/Turrets
  - Guide to Roof Surfaces
- THINGS TO CONSIDER
  - Match Existing
  - Drawing Scales
  - Future Use
  - Eaves Details
  - GRP Dormers
  - Minimum Timber Sizes
  - Maximum Truss Spans
  - Centres
  - Design Principles
    - Span to Depth Ratios
    - External Wall Members Designed as Trusses
    - Infill Rafters carrying ceiling finishes
  - Large Projections
    - Gable
    - Eaves
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  - Ceiling Construction
    - Suspended Ceiling
    - Exposed Ceiling
- ENGINEERING PRINCIPLES
  - Deflection
    - Horizontal
    - Compound
    - Differential
    - 14mm Limit for Attic Trusses
    - Deflections in Pamir
  - CSI
  - Moment
  - Tension / Compression
  - Vibration
  - Support Fixity
  - Design for non-triangulated trusses
    - Design for non-triangulated trusses
    - Design Improvements
  - Bearing Design
    - Bearing Design
    - Bearings narrower than supported members
- LOADING
  - EC5 Basics of Design
  - EC5 Calculation Tables Description
  - Exposure Settings for Load Appliance
  - Types
  - Duration
  - Actions
  - Load Paths
  - Site Location
  - Materials Lists
  - Wind
    - Wind Uplift - Resolving issues in Pamir
    - Effect of Building Size
    - Use of Wind Zones
    - Open Sided Buildings
  - Snow Drift
    - Snow Drift
  - Special Loads
    - Attic/Non-Attic space
    - Sliding Partitions
    - Care Homes / Hotels
    - Hoists - calculating
    - Hoists - how to apply
    - Plant
    - False Chimney
    - Large Roof Lights and Lanterns
    - Stair Loadings in Pamir
    - GRP Dormers
- DESIGN RESPONSIBILITIES
- TERMINOLOGY
  - Roof
  - Truss
  - Intro to Trusses
- JOB TYPES
  - Estimating
  - Manufacture