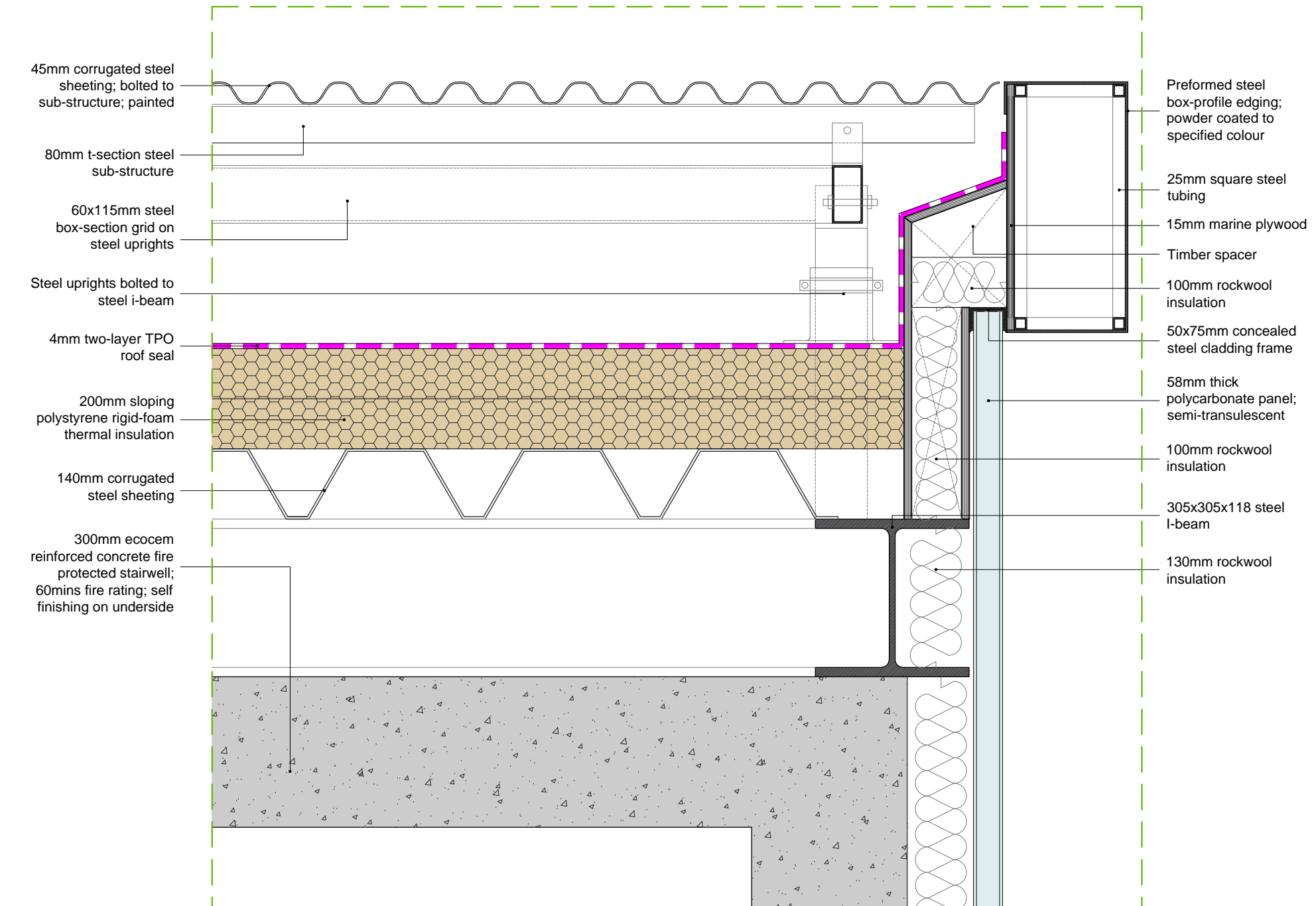
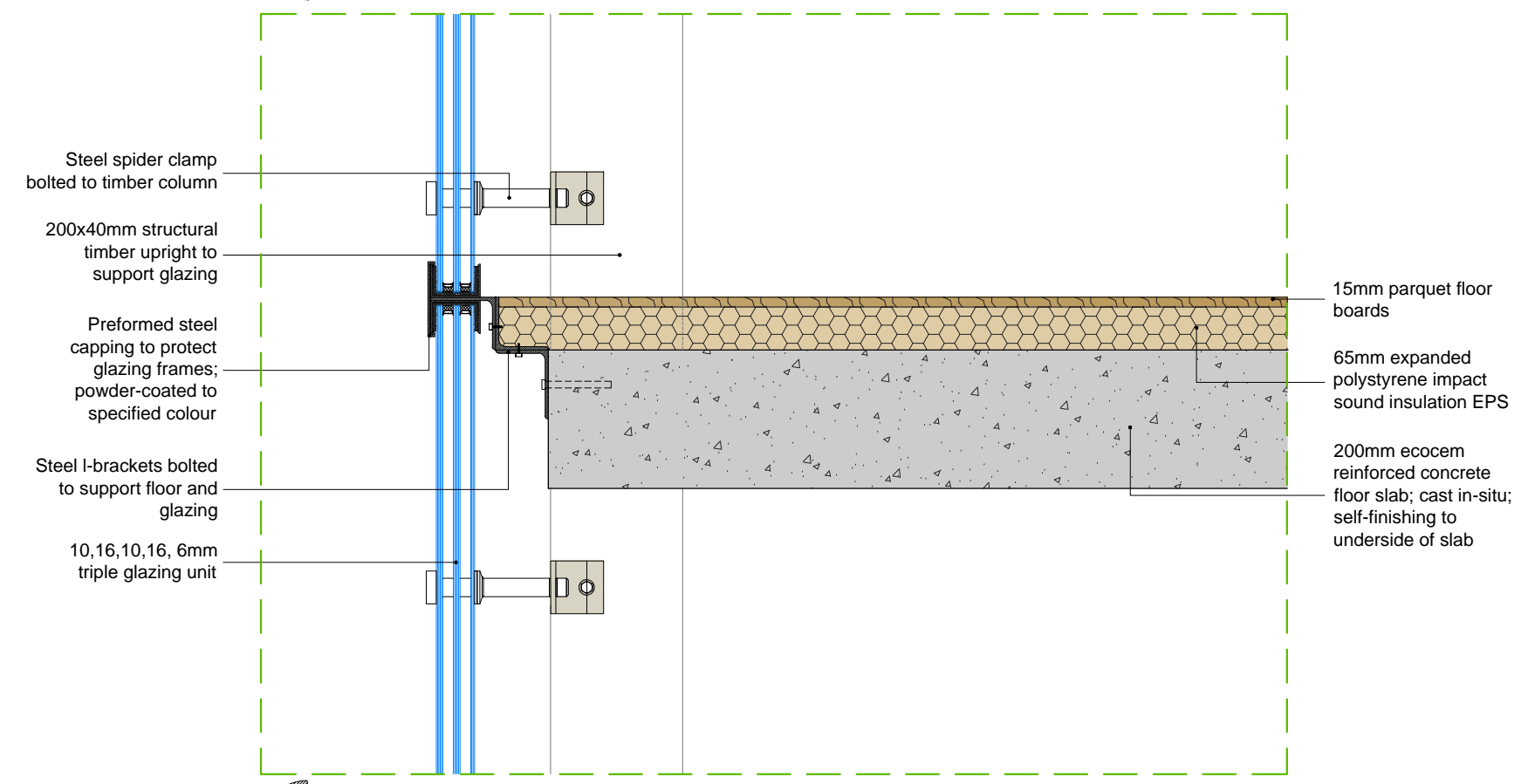


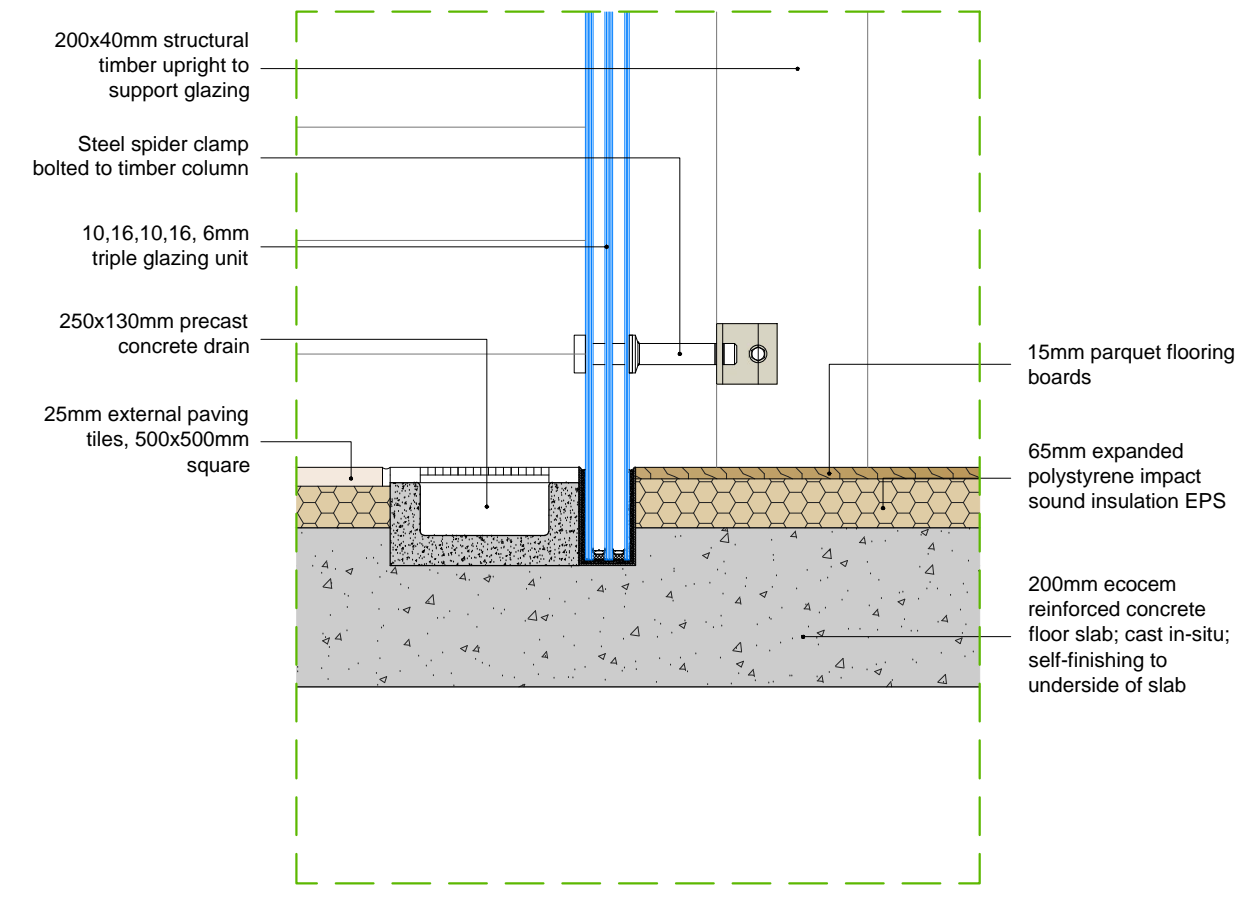
**Roof Edge Detail: DET-V11**  
Scale 1:10



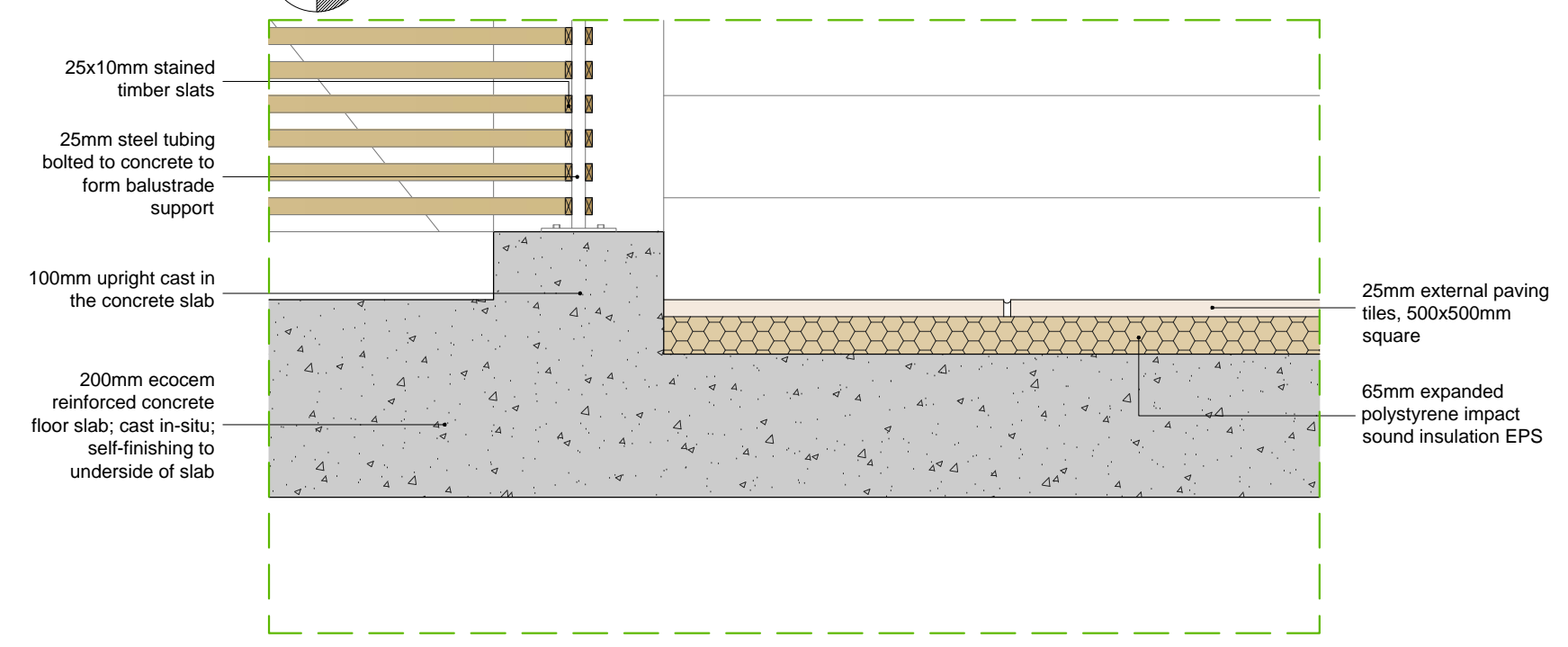
**Roof Edge Detail: DET-V17**  
Scale 1:10



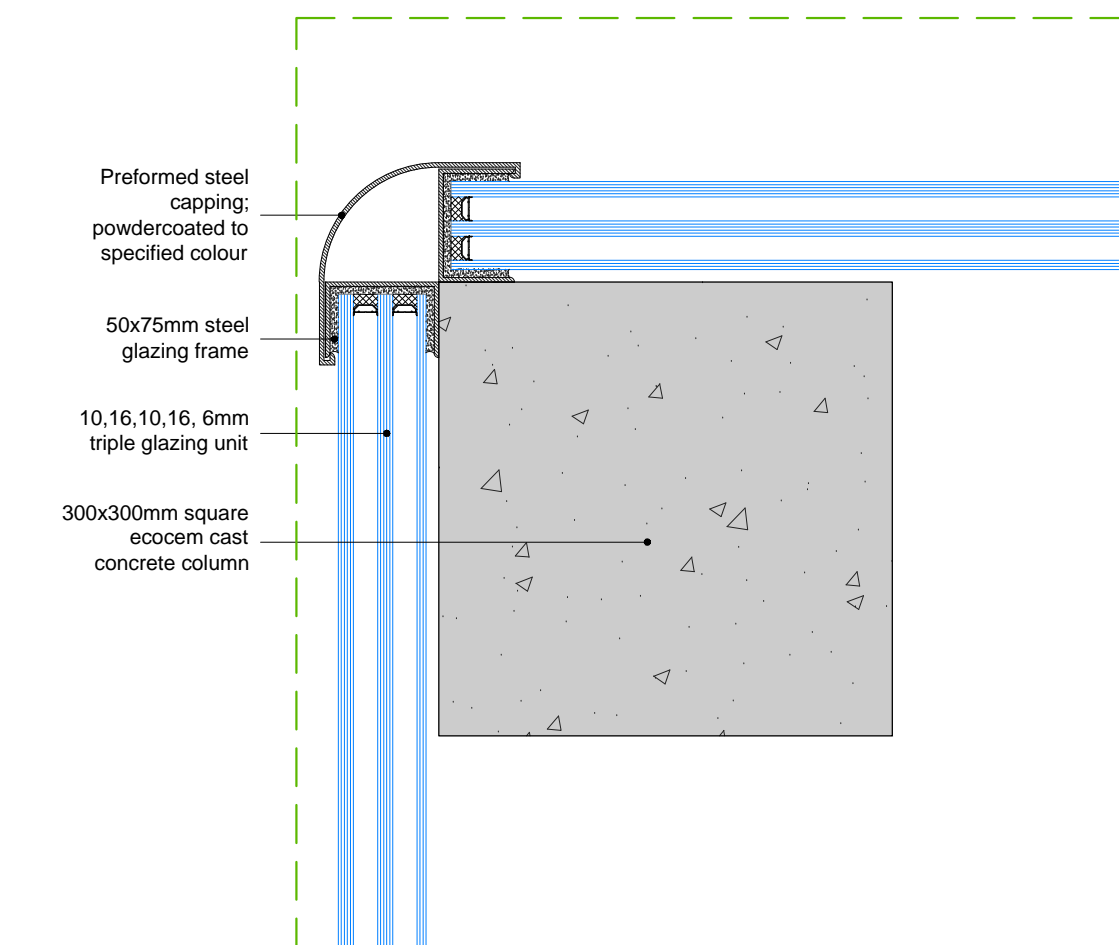
**Floor Detail: DET-V12**  
Scale 1:10



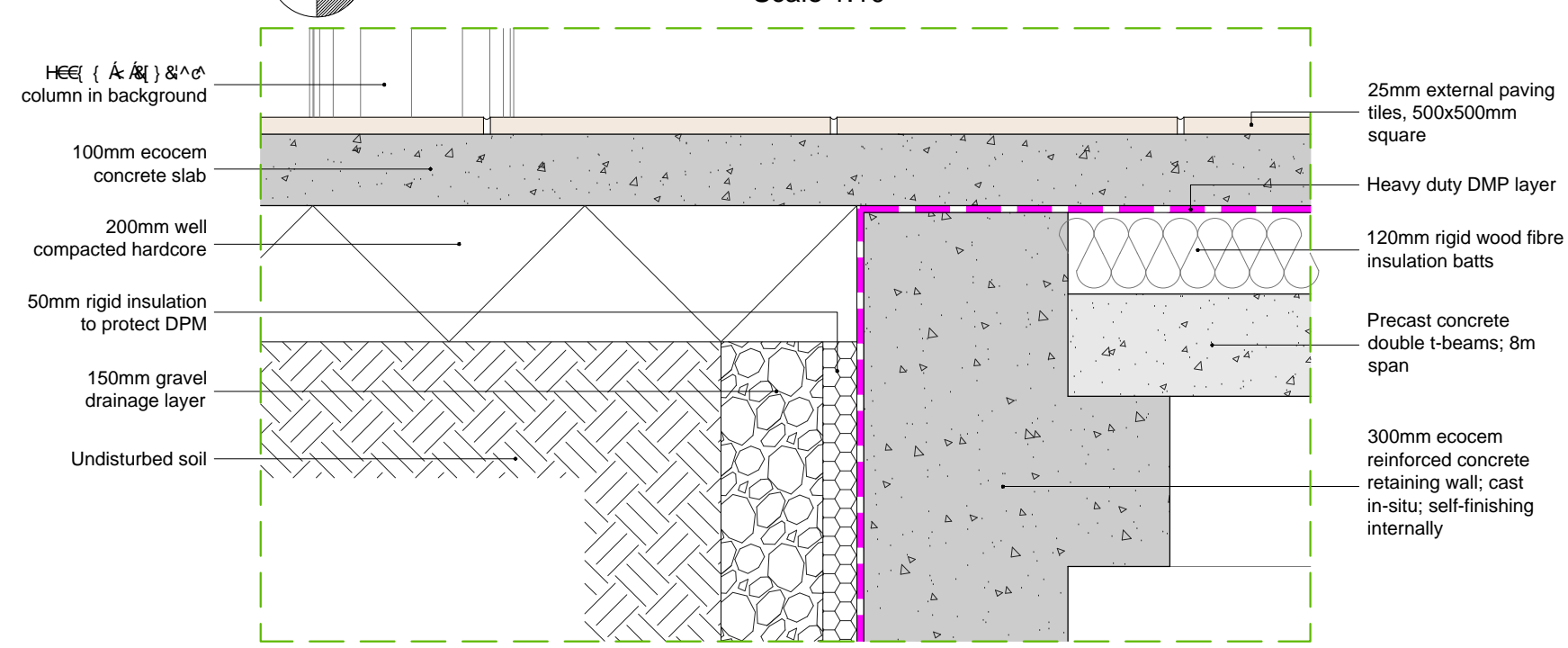
**Glazing Detail: DET-V13**  
Scale 1:10



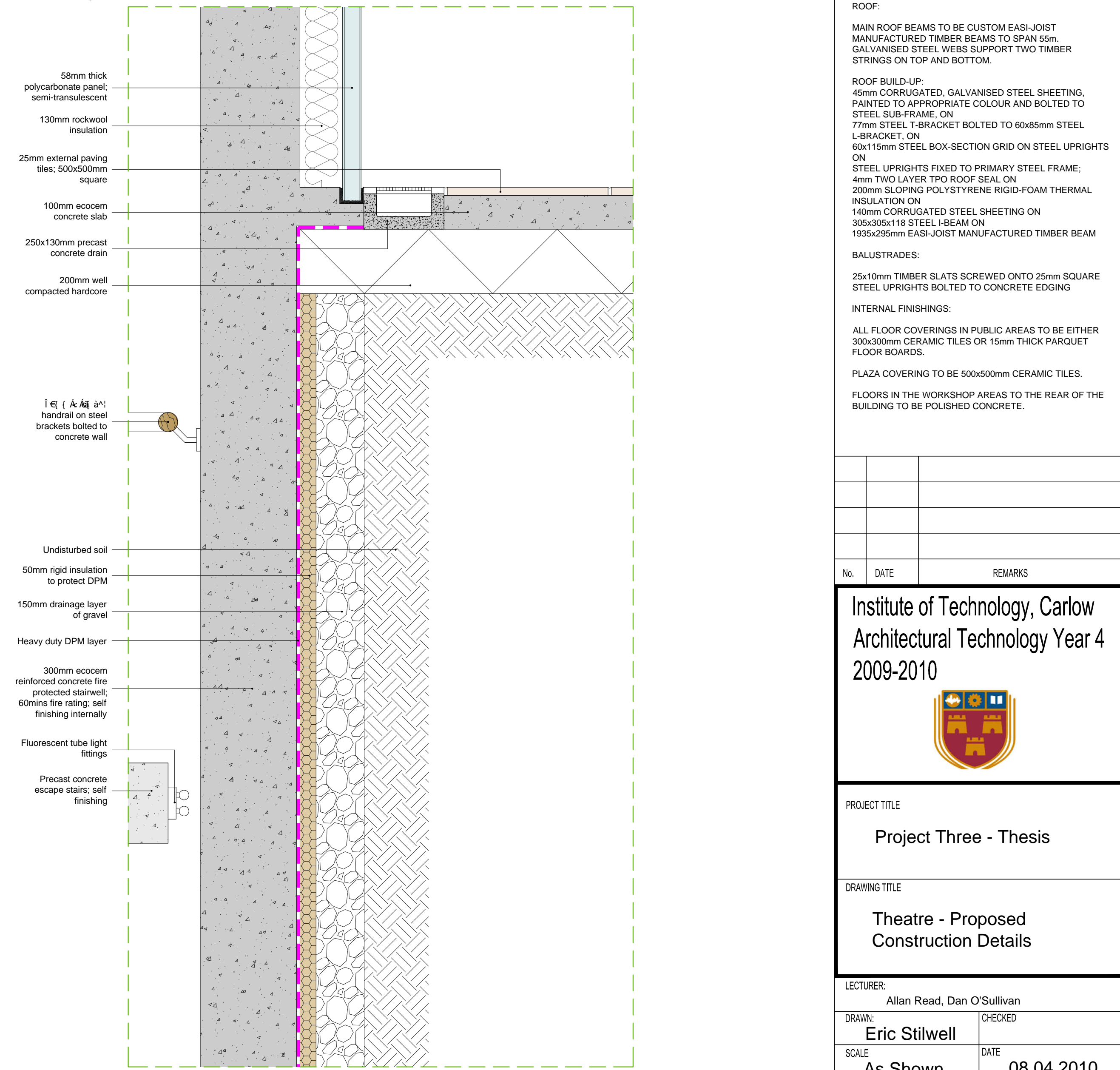
**Balustrade Detail: DET-V14**  
Scale 1:10



**Glazing Detail: DET-H7**  
Scale 1:5



**Plaza Detail: DET-V15**  
Scale 1:10



**Escape Stairwell Detail: DET-V18**  
Scale 1:10

**NOTES:**

1. USE FIGURED DIMENSIONS ONLY - DO NOT SCALE
2. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

**WALL BUILD-UP:**

45mm CORRUGATED, GALVANISED STEEL SHEETING, PAINTED TO APPROPRIATE COLOUR AND BOLTED TO STEEL SUB-FRAME, ON 48x75mm STEEL U-BRACKET AT 600mm CENTRES, BOLTED TO MARINE PLYWOOD, DPM WATER-PROOFING LAYER ON 15mm MARINE PLYWOOD ON 50x305mm STEEL SUN-FRAME BOLTED TO MAIN STEEL I-BEAMS, 300mm ROCKWOOL INSULATION IN BETWEEN 15mm MARINE PLYWOOD, INTERNAL CLADDING TO BE 1200x300mm TILES FIXED TO THE PLYWOOD USING HIDDEN FIXINGS

**GLAZED WALLS:**

CLEAR GLAZING TO BE TRIPLE GLAZED (10,16,10,16,6) UNITS FIXED INTO STEEL FRAMES, HIDDEN WITHIN CONSTRUCTION (SEE DETAILS). GLASS TO HAVE A FAINT TINT (TO PROTECT FROM THE HARSH SOUTH AFRICAN SUN).

SEMI-TRANSLUCENT GLAZING TO BE 58mm THICK, DOUBLE-SKINNED POLYCARBONATE PANELS WITH STEEL FRAMES, TO FIT INTO SAME SPACING AS CLEAR GLAZING

**CONCRETE:**

ALL CONCRETE TO INCLUDE 50% GGBS UNLESS OTHERWISE STATED.

GGBS IS GROUND GRANULATED BLASTFURNACE SLAG AND IS A BY-PRODUCT OF THE STEEL INDUSTRY, IT IS RAPIDLY COOLED WITH WATER AND GROUND DOWN TO A POWDER. USED IN CONJUNCTION WITH OPC.

ALL CONCRETE WALLS AND FLOOR SLABS TO BE POURED IN-SITU USING SMOOTH FORMWORK, AS IT WILL BE SELF-FINISHING

**BLOCKWORK:**

ALL BLOCKWORK TO BE LOW CARBON CONCRETE BLOCKS. THESE ARE BLOCKS MADE WITH THE SAME ECOCEM CEMENT AS THE CAST IN-SITU WALLS AND FLOOR SLABS.

**ROOF:**

MAIN ROOF BEAMS TO BE CUSTOM EASI-JOIST MANUFACTURED TIMBER BEAMS TO SPAN 55m. GALVANISED STEEL WEBS SUPPORT TWO TIMBER STRINGS ON TOP AND BOTTOM.

**ROOF BUILD-UP:**

45mm CORRUGATED, GALVANISED STEEL SHEETING, PAINTED TO APPROPRIATE COLOUR AND BOLTED TO STEEL SUB-FRAME, ON 77mm STEEL T-BRACKET BOLTED TO 60x85mm STEEL L-BRACKET ON 60x115mm STEEL BOX-SECTION GRID ON STEEL UPRIGHTS ON STEEL UPRIGHTS FIXED TO PRIMARY STEEL FRAME, 4mm TWO LAYER TPO ROOF SEAL ON 200mm SLOPING POLYSTYRENE RIGID-FOAM THERMAL INSULATION ON 140mm CORRUGATED STEEL SHEETING ON 305x305x118 STEEL I-BEAM ON 1935x295mm EASI-JOIST MANUFACTURED TIMBER BEAM

**BALUSTRADES:**

25x10mm TIMBER SLATS SCREWED ONTO 25mm SQUARE STEEL UPRIGHTS BOLTED TO CONCRETE EDGING

**INTERNAL FINISHINGS:**


ALL FLOOR COVERINGS IN PUBLIC AREAS TO BE EITHER 300x300mm CERAMIC TILES OR 15mm THICK PARQUET FLOOR BOARDS.

PLAZA COVERING TO BE 500x500mm CERAMIC TILES.

FLOORS IN THE WORKSHOP AREAS TO THE REAR OF THE BUILDING TO BE POLISHED CONCRETE.

| No. | DATE | REMARKS |
|-----|------|---------|
|     |      |         |
|     |      |         |
|     |      |         |

Institute of Technology, Carlow  
Architectural Technology Year 4  
2009-2010



PROJECT TITLE  
**Project Three - Thesis**

DRAWING TITLE  
**Theatre - Proposed Construction Details**

LECTURER:  
Allan Read, Dan O'Sullivan

DRAWN:  
**Eric Stilwell** CHECKED

SCALE:  
As Shown DATE  
08.04.2010

DRAWING NUMBER  
Y4-Q3-THESIS-012 REV  
1