Temporary Group Presentation

Awaiting Group:

Selam Markay Calvin Rogers PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PROJECT: STUDENT HALL OF
RESIDENCE IN CONSTANCE
TECH TUT
SCALE 1:10 AXONOMETRIC
IRSHAAD ALLIE
NELSON MABUKANE

1. Window Construction

Glass in silicone

Glass fitted to pine sub-frame, machined to fit into window main frame (sliding window) 120/50mm window sill on 80/40mm window trimmer, nailed to 100/100 vertical frame

Galvanized steel profile rainwater drip screwed to main window frame

3. Wall Construction

100/100mm frame columns exposed internally at 3m centres
12mm plasterboard nailed on 40/107mm timber frame
100mm thermal insulation bituminous soft board
24mm rough pine weather nailed on 40mm/60mm boarding battens with timber fillers under the lowest boarding batten

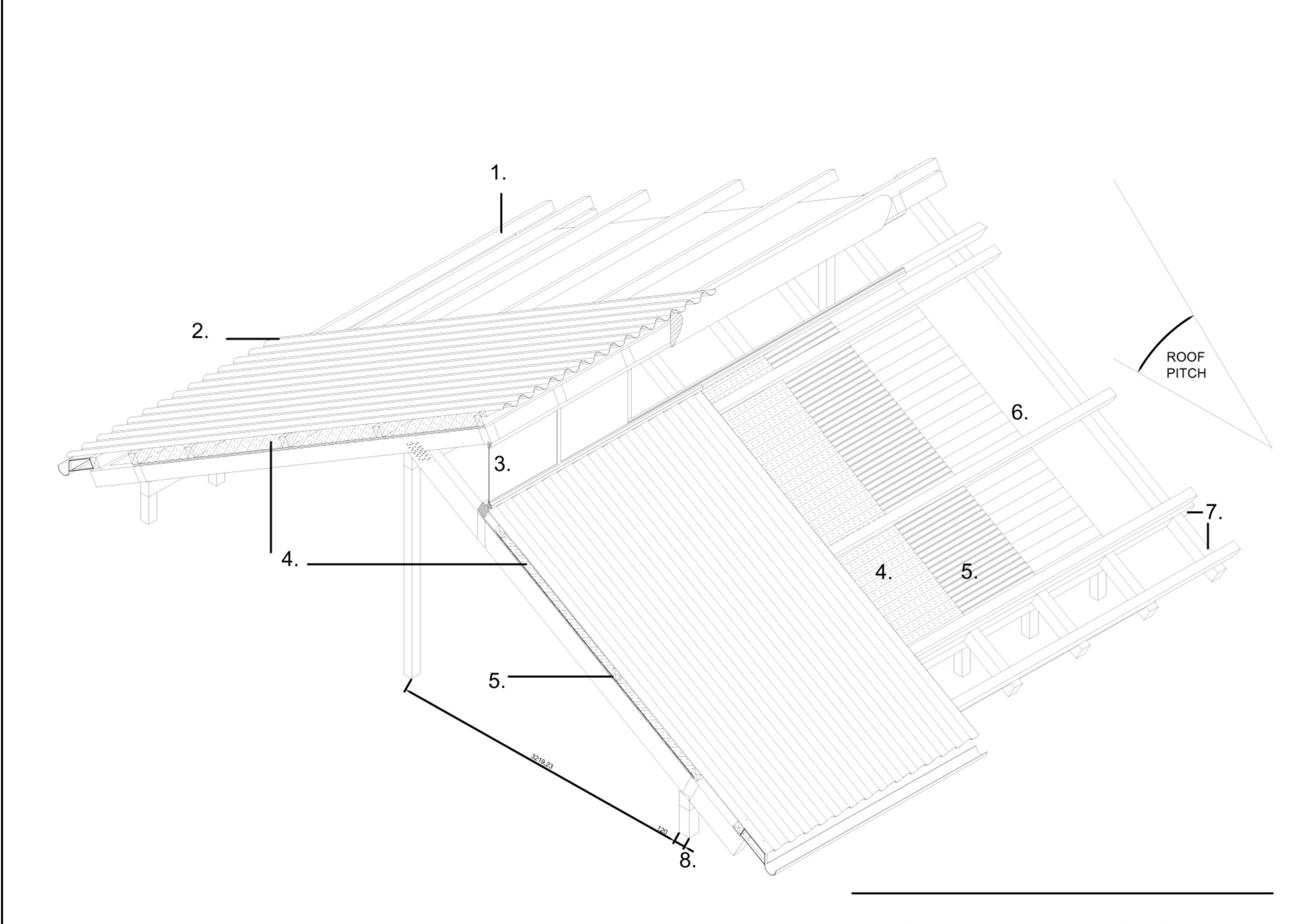
4. Floor Construction

3mm synthetic rubber
40mm cement screed
0.22mm polyethylene foil
25mm footstep insulation
30mm particle board
30mm(acoustic) gravel layer
under living rooms
25mm T&G boarding nailed to main beam
210/120mm main beam attached to 100/10

210/120mm main beam attached to 100/100 main column with galvanized gusset plate plate (similar to structural steel work) with (25-38mm) screw

5. Column Construction

100/100mm support column bolted with 2 x 10mm stud bolt Columns exposed on the inside and painted white



1:20 Sectional perspective of roof structure

DRAWING 1 OF 2

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TUTORIAL 3

STEVAN TSENG KURT HESSE

REFERENCES:

DETAIL 1994 JUN-SEPT ISSUE A TECHNICAL GUIDE TO GOOD

HOUSE CONSTRUCTION P123

ANNOTATIONS

- 1. 120mm x 110mm timber purlins sits atop vapour barrier Note: large cross-sectional area compensates for its large spacing (> 1400mm)
- 2. 1.2 mm thick corrugated aluminium sheeting nailed to purlins
- 3. 6 mm thick glass of clerestory windows sits within frame attached to
- 4. 120mm thick thermal insulation sits between roof sheeting and ceiling boards
- 0.4mm thick polyehtylene vapour barrier sits between purlins and ceiling boards
- 6. 25 mm thick timber T&G boarding ceiling boards sit atop rafters
- 7. 120mm x 180mm timber rafters rests on wall plate which rests on columns
- 8. 120mm x 120mm timber columns forms the primary structure

