Downtown Connection:
A Cultural Building Complex

Qian Cao (Bubu) 4302001
Floor & Section Plans

Delta Interventions
First Mentor: Frits Palmboom
Second Mentor: Koen Mulder

Ground Floor Plan 1:300
Attic Floor Plan 1:300
Second Floor Plan 1:300
First Floor Plan 1:300

A-A Section 1:300
B-B Section 1:300
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A Cultural Building Complex

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**Qian Cao 4302001**

**Facade Design of the Theatre Building**

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1. **roof construction:**
   - 6mm aluminum composite sheet
   - supporting structure,
   - sealing layer,
   - 12.5mm plasterboard,
   - 150mm thermal insulation
   - vapor barrier
   - 12.5mm plasterboard
   - 100mm corrugated steel deck

2. **primary structure:**
   - 200mm steel I-beam in truss

3. **sandwich insulation panel**

4. **extruded aluminium facade post**

5. **steel bracket for suspended facade**

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6. **secondary structure:** steel sheet bent to shape

7. 45mm acoustic ceiling

8. double glazing:
   - 8mm float glass + 16mm cavity
   + 8mm safety glass

9. **glass louver**

10. **purlin:** 140/60mm steel RHS

11. **toughened safety glass**

12. **top-hung opening**

13. **floor construction:**
   - 90mm screed with underfloor heating and cooling tubes;
   - 40mm insulation
   - 150mm reinforced concrete bonded to corrugated deck

14. **bottom fixing steel bracket**

15. 20mm closing strip

16. **glass parapet:** 2x12mm toughened glass

17. wood handrail

18. column: 500mm steel CHS

19. 590mm steel I-beam

20. 30mm fibrous concrete soffit

21. **aluminium section with drainage hole**

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**Elevation view outside 1:20**

**Cross Section 1:20**

**Floor Plan over facade fragment 1:20**