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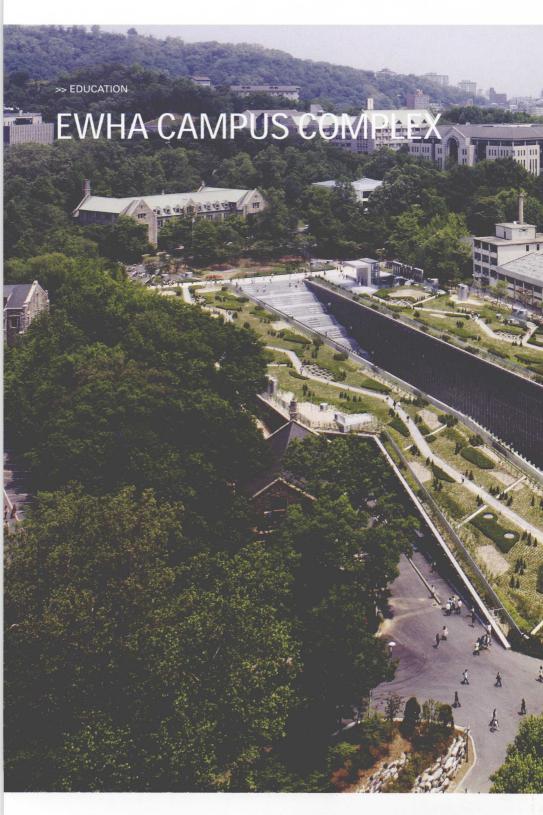
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# **CHANGWON**

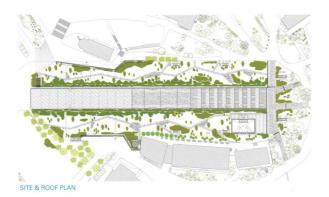
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# **SEONGNAM PANGYO**

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The new campus center of Ewha Womans University was inaugurated in April 2008 and accommodate 20,000 students. A contemporary metropolis as Seoul seems to have a dramatic need of building who creates a breath in the city to balance the fast densification of real estate developers. By burying the complex, I have the desire to appropriate the territory, to mingle the constructed material with the ground, the desire to exploit to its paroxysm the idea that 'concept and matter have to grapple one with another'. The tree sunken architectures buildings are buried to liberate the territory above. The genealogy with the previous projects, as in the French National Library in Paris with its sunken garden in the middle of a wood deck framing, or in the Velodrome and Olympic swimming pool in Berlin engraved in an apple tree orchard, is evident when we consider the fantastic excavation required by this construction.

A SUSTAINABLE CAMPUS The idea of this underground university was born out of the desire to preserve a large green space in the center of the university campus. The six-stories building is organized around a long ramp sloping down in opposition with the gently rising natural topography. The two large glass curtain walls facing the external circulation ramp serve as elements for day lighting and allow natural ventilation of parts of the building as well. In fact, the first architectural ideas that give its strong identity to the building enable extraordinary performances in terms of stainability.

THE HIDDEN VALLEY OF EWHA First, the new entrance leads to a transversal platform. A landscape then, more than an architectural work, 'The Campus Valley' is engraved into the ground and marks the entrance of University site like a furrow. Starting by a long slopping down esplanade, it rise up at his edge with benches and steps which can be used as an outdoor amphitheatre. The two mirror facades erected face to face design two high glass cliffs who bring natural light to the buried spaces mixing opportunely the study places, administration with cultural and commercial. Designed and rigorously built to resist to high wind stress, with its very material, strong and heavy the full stainless steel blades, bolts, brackets and canopies are disappearing due to the huge scale. In the middle of the valley, only remains become dreamlike immersion between two cascades of light. All together, by using simple shapes which allow the materials to show their pure appearance, we can reach an immaterial effect which participates to the disappearance of the building. Finally the building disappears under the rooftop garden. It has a very natural aspect, walk paths are made of rough natural stones, evergreen bushes and

flower trees like spiraea prunofolia, rhododendron, kerria, are planted randomly. This harmony reinforces the disappearance of the building.

PROCESS Due to the particular position of its stainless steel fin, the realised curtain wall is the result of a long study involving Korean, German, French engineers and architects. In order to resist to the wind load, the aluminium mullion stiffness of the 17m high curtain wall needs to be reinforced with a steel wale in order to resist to the particularly difficult wind conditions, typhoons of Korea. Normally, the wale is placed inside the building, just behind the aluminium vertical profile. By placing it outside, by shaping it as a fin and by using a mirror polished finish we transform those structural elements into a visual experience and offer to the building and users an installation similar to a contemporary at work.

During construction design phase, we designed it as a completely flat plate in order to get a pure geometry. By connecting the 5.4m invisible fitting screws hidden in the 20mm thickness of the stainless steel plate, we wanted to give the impression that they are made in one piece. The fact that the fin is outside complicates the work : the wind going laterally into the Valley has an effect on it. In order to resist to the wind stress, we added horizontal brackets perpendicular to the fin. Secondly, we have to make the fin connected to the mullion in order that the last one benefits the stiffness of the first one. When both elements are inside, the connection is easier, but as the wale is outside, we have a polyamide insulating element in between. As this element has no structural qualities, we had to connect punctually the mullion and the fin. This connexion creates a very local thermal bridge. During the mock ups testing phase, we realised that the theoretical exactitude required during construction design phase was too difficult to reach. The workmanship quality was too difficult to maintain in industrial production conditions. We had to replace the fitting screws by cap nuts bolts with treated rods to connect the fins together. The result is amazingly more interesting than the previous version. At a small scale we have a much more material, heavy elevation. We even reinforced this aspect with full stainless steel canopies fixed to the fin by angles and similar bolts. But at a larger scale, because of the huge dimensions of the valley the connections seem to be a very little motive, dispatched randomly to animate the rigorous design. They don't get in conflict with the very immaterial visual perception, the impression of light reflection. Text by Dominique Perrault Architecture

1 CINEMA

2 BANK

3 WELFARE FACILITIES

4 REST ROOM

TILOT HOOK

5 MULTI-PURPOSE ROOM

6 THEATER

7 CEREMONIAL HALL

8 FITNESS CENTER

9 PLAZA

10 CAFE LOUNGE

11 PROFESSOR'S OFFICE

12 OFFICE

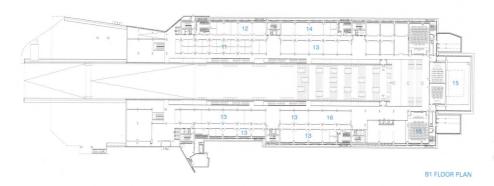
13LECTURE ROOM

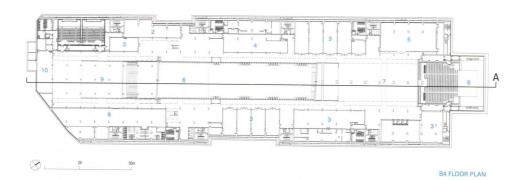
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LABORATORY
15 LECTURE HALL

16 GLOBAL LOUNGE

16 GLOBAL LO





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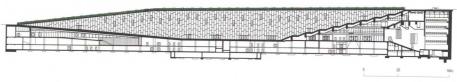






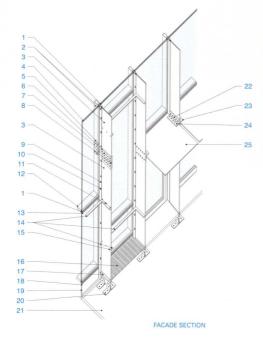
In the valley





SECTION A







Curtain wall detail

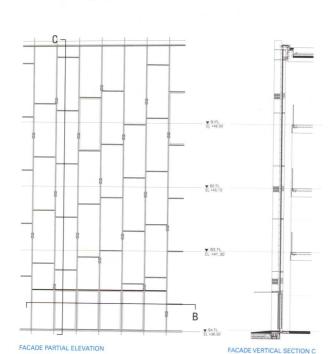
- 1 DOW CORNING 993 STRUCTURAL GLAZING SEALANT OR SIMILIAR CW PACKAGE
- 2 ALUMINUM PROFILE
- 3 POLISHED STAINLESS STEEL FIN
- 4 INSULATED GLASS UNIT TEMPERED GLASS GROUND FLOOR, HEAT STRENGTHENED GLASS UPPER FLOORS
- 5 SPLICED ALUMINUM PROFILE BOLTED TO INTERIOR STEEL REINFORCEMENT AS REQUIRED
- 6 POLISHED STAINLESS FULL THREADED ROD AND CAP NUT
- 7 POLISHED STAINLESS STEEL PLATE
- 8 SPLICE IN FIN WITH FIN LENGTH NOT TO EXCEED 5,400MM
- 9 SLOTTED MOLE(SLOT IN FIN) FOR VERTICAL DIFFERENTIAL MOVEMENT BETWEEN ALU-MINUM AND STAINLESS STEEL
- 10 FLUSH THREADED STAINLESS STEEL BOLT EVERY 400MM
  11 BRACKET BOLTED TO FIN FLUSH THREADED STAINLESS STEEL BOLT
- 12 HORIZONTAL ALUMINUM PROFILE
- 13 ALUMINUM COVER PLATE
- 14 POLISHED STAINLESS STEEL HORIZONTAL BRACKET
- 15 FLUSH THREADED STAINLESS STEEL BOLT FIN / BRACKET CONNECTION
- 16 GALVANISED STEEL GRILL
- 17 ALUMINUM PROFILE GRILL SUPPORT
- 18 ALUMINUM FLASHING 19 INSULATION
- 20 GALVANISED STEEL ANGLE SUPPORT
- 21 CONCRETE SLAB
- 22 POLISHED STAINLESS FULL THREADED ROD AND CAP NUT FIN / ANGLE CONNECTION
- 23 POLISHED STAINLESS STEEL ANGLE
- 24 FLUSH THREADED STAINLESS STEEL BOLT CANOPY / ANGLE CONNECTION
- 25 POLISHED STAINLESS CANOPY



The mirror facade reflects scenes of the exterior



FACADE HORIZONTAL SECTION B



STAINLESS STEEL ANGLE MIRROR FINISH

- STAINLESS STEEL PLATE T16 MIRROR FINISH
- S'STL FLUSH THREADED BOLT
- S'STL FULL THREADED ROD & CAP NUT M24X95
- POLISHED STAINLESS STEEL BRACING FIN 20MM INTERIOR
- EXTERIOR
- 8 STAINLESS STEEL ANGLE SUPPORT T10 HAIRLINE FINISH
  - 9 STAINLESS STEEL FLAT T10 HAIRLINE FINISH
  - 10 FIN LENGTH 300MM
- 11 FIN LENGTH 450MM 12 FOLDED ALUMINUM PANELS
- 13 INSULATION
- 14 STEEL TUBULAR STRUCTURE
- 15 HEATING UNIT TO BE DEFINED OUTSWINGING DOOR-ALUMINUM
- 16 FRAME WITH INSULATED GLASS UNIT
- 17 VESTIBULE TO BE INCLUDED IN CURTAIN WALL PACKAGE
- 18 VERTICAL ALUMINUM PROFILE WITH STEEL
- REINFORCEMENT AS REQUIRED 19 HORIZONTAL ALUMINUM PROFILE
- 20 STEEL ANGLE 21 STAINLESS STEEL ANGLE
- 22 INSULATED GLASS UNIT
- 23 MIRROR POLISHED STAINLESS STEEL BRACING FIN 20MM
- 24 ALUMINUM SHEET
- 25 FULL HEIGHT STAINLESS STEEL TUBULAR HANDLE
- 26 GALVANISED STEEL GRILL BY MEISER GRUPPE OR SIMILIAR
- 27 ALUMINUM ANGLE GRILL SUPPORT
- 28 THERMAL INSULATION CW PACKAGE
- 29 FLASHING CW PACKAGE
- 30 BRICK
- 31 STAINLESS STEEL FLAT T16 POLISHED FINISH
- 32 WATERPROOF MEMBRANE
- 33 GLAVANISED STEEL ANGLE CW PACKAGE 34 CONCRETE BASE FOR FACADE SUPPORT BEYOND
- 35 TUFTI GUARD RUBBER STRIPS IN ALUMINUM GRID FRAME

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EWHA CAMPUS COMPLEX

