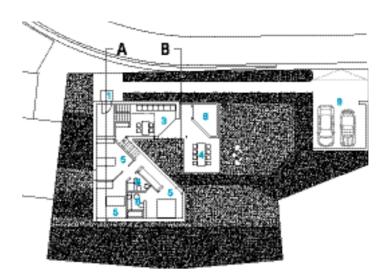
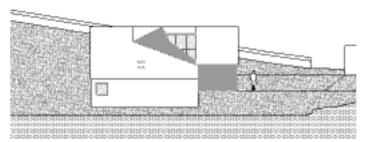


Location Carabbia, Ticino, Switzerland Use Housing Site area 611 m² Gross floor area 169 m² Completion 2007 Photographer Pino Musi, Enrico Cano

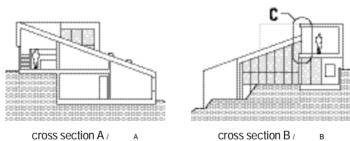
2007



lower floor plan /



west elevation /

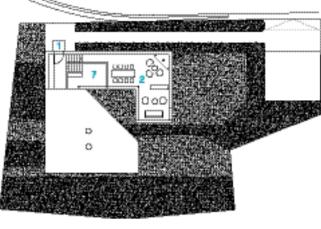


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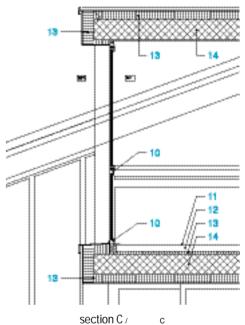
- 2 LIVING ROOM 3 KITCHEN
- 4 PORCH
- 5 BEDROOM 6 BATHROOM 7 VOID

- 8 MECHANICAL ROOM 9 PARKING AREA 10 ALLUMINIUM FRAME
- 11 MARBLE FLOOR 12 SCREED
- 13 INSULATION 14 CONCRETE SLAB





upper floor plan /





HOUSE IN COMANO

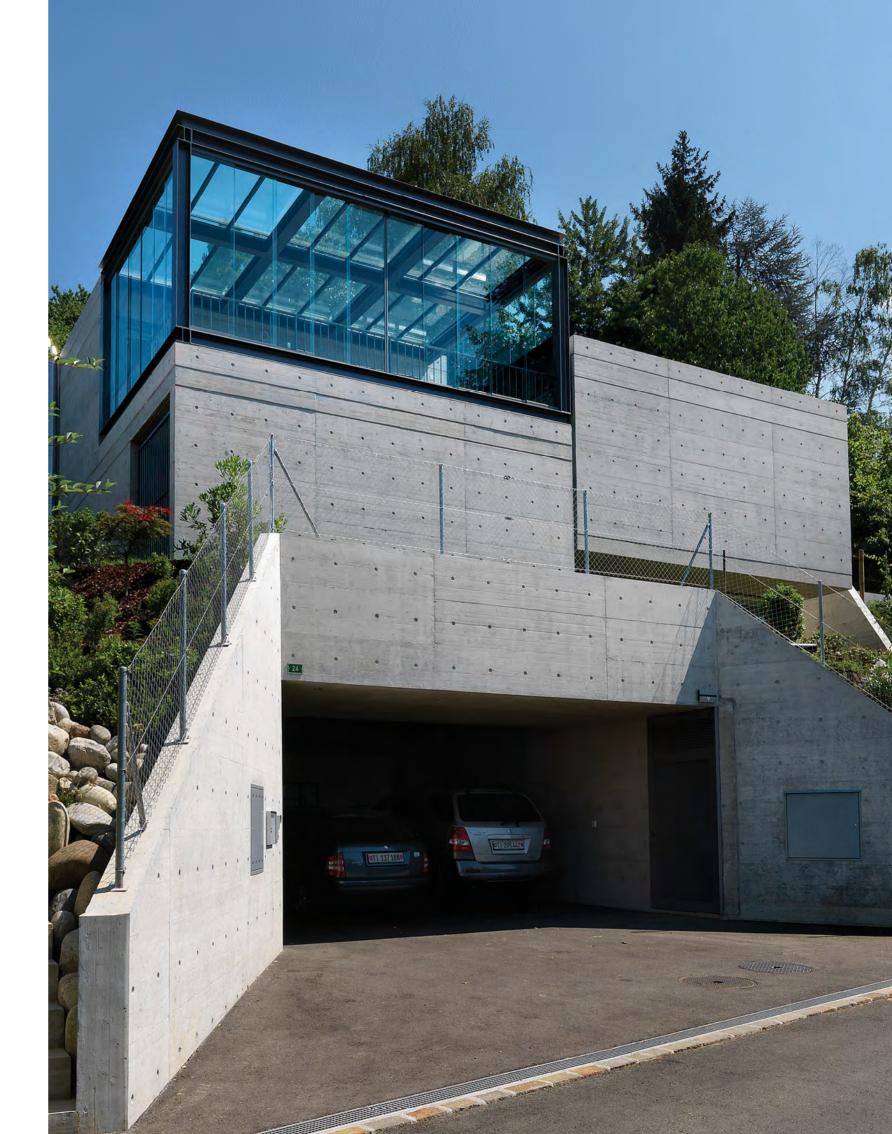
Davide Macullo Architetto I Davide Macullo

Comano, set at 5km north from Lugano(Ticino), is a little village at the foot of a hill. The plot is set as a kind of boundary between the hill and the new urbanized area on a flatter surface. The steep sloped land itself suggested to treat the land as it would be a built volume and part of the architecture of the house. The project starts by modelling those terraces that represent a continuation of the indoor spaces so that the entire plot is used and built as domestic space. In this way the outdoor spaces flow inside and the indoor spaces flow towards outside. This way of stretching the spaces offers the perception of living a larger space composed by different climatic, material and lighting conditions. The only "Natural" land portion left is the hill side slope that works as scenery for the terraced areas. This house has been planned with particular care to ensure intimacy and privacy while keeping a wide view towards outside to enjoy the beautiful surrounding landscape without being seen from outside public spaces. The arrangement of the storeys links every room, visually and physically, with the garden thus enhancing the feeling to be constantly at ground level. The huge entrance porch, that serves also as covered car - park is carved into the hill as a cave; leaving the upper volume as if "floating" in the green landscape.

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Use Housing
Site area 833m²
Building area 139m²
Gross floor area 200m²
Building scope 3F
Structure RC, Steel
Finishing Concrete, Gipsumboard mineral painted, Resina
Complete 2007
Photographer Pino Musi, Enrico Cano
833㎡
833m ²
833㎡ 139㎡ 200㎡
833mi 139mi 200mi 3
833㎡ 139㎡ 200㎡
833m 139m 200m 3
833mi 139mi 200mi 3

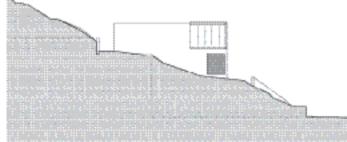
Location Comano, Ticino, Switzerland

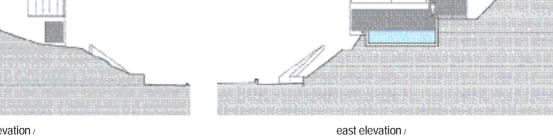


FLOOR PLAN / ELEVATION

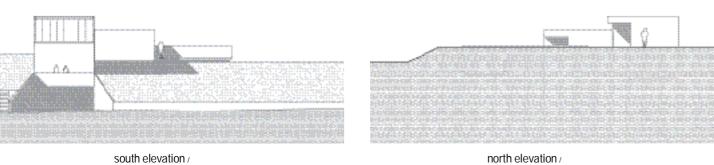


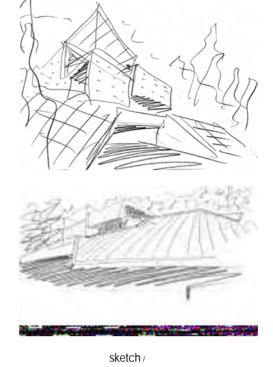
- 1 ENTRY
 2 LIVING
 3 KITCHEN
 4 PATIO
 5 BEDROOM
 6 BATHROOM
 7 GUEST ROOM
- 8 TERRACE
 9 LAUNDRY
 10 MECHANICAL ROOM
 11 STORAGE
 12 SWIMMING POOL
 13 PARKING
- 1 8 2 9 3 1 4 1: 5 1: 6 1:



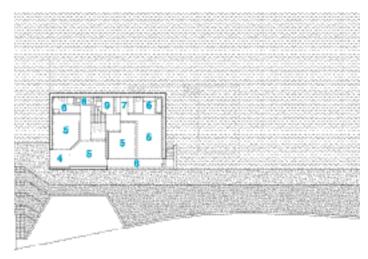


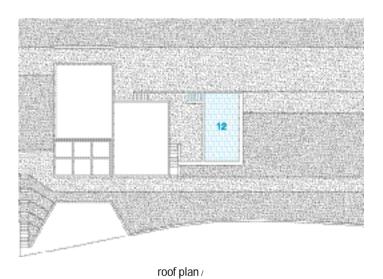
west elevation /



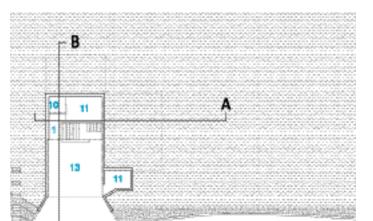


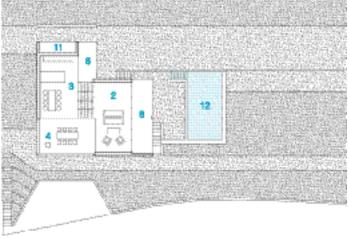






2nd floor plan(+3 level) / 2 (+3)





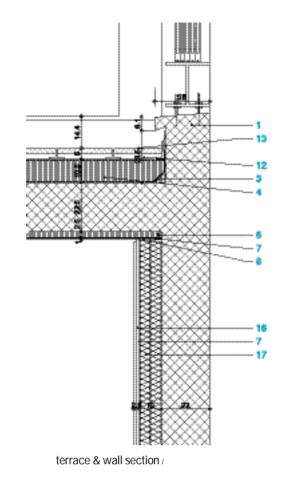
1st floor plan(+0 level) / 1 (+0

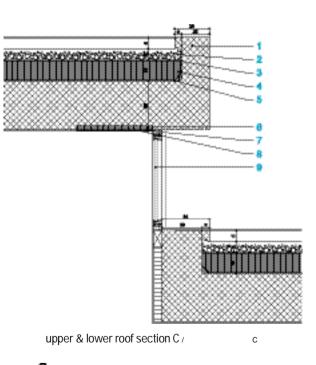
3rd floor plan(+6.03~7 level) / 3 (+6.03~7)

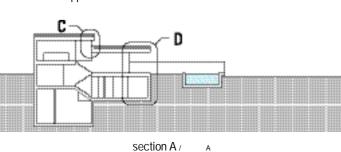
TERRACE / ROOF

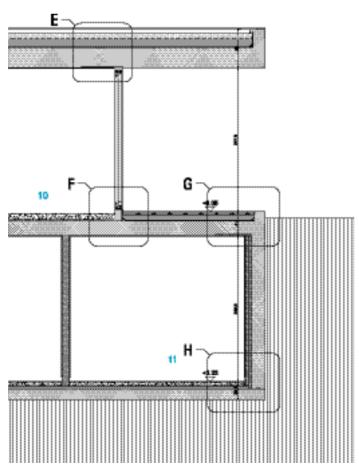




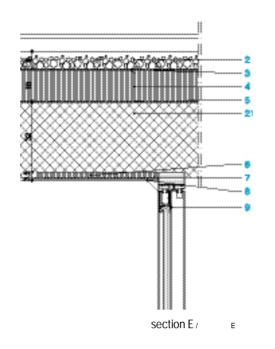


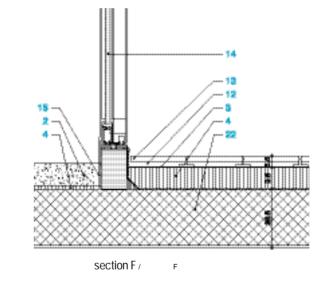


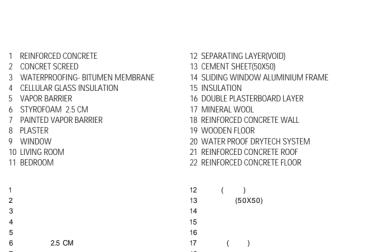


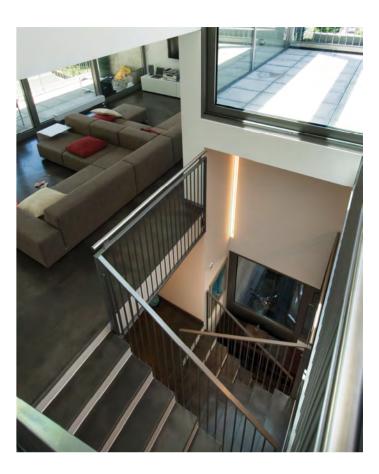


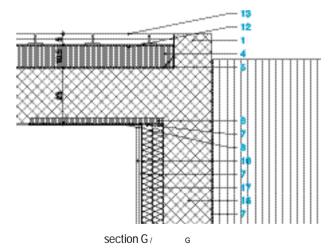
section D /

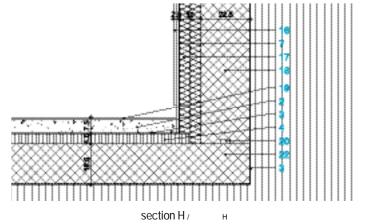












80 DETAILS

WINTER GARDEN 71





1 GLASS ROOFING 4.7 MM 2 LNP 200.100.12 WELDING

8 REINFORCED CONCRETE 9 CEMENT SHEET(50X50) 10 SEPERATING LAYER(VOID)

16 DOUBLE PLASTBOARD LAYER

17 PAINTED VAPOR BARRIER 18 MINERAL WOOL 19 WINDOW 20 SLIDING GLASS 21 ROOF GLASS 22 STEEL SUPPORT 23 VERTICAL REINFORCEMENT

4.7MM 2 LNP 200.100.12 HEA 20 4M20 5 RAL 9007 7 HEA 200

GLASS 4 HEA 20 4M20

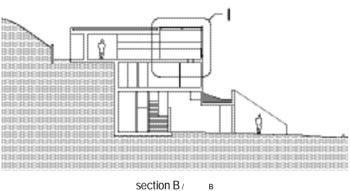
7 HFA 200

24 PARAPET 25 FIX GLASS 26 CURTAINS

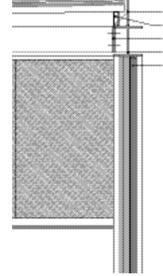
3 STRUCTURAL TUBE. WEIGHT FOR SLOPE

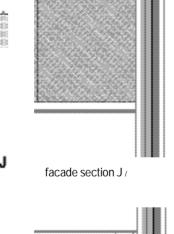
SLIDING WINDOW ALUMINIUM FRAME

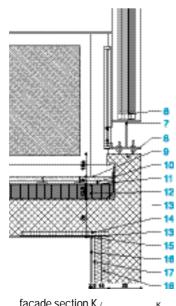
11 WATERPROOFING - BITUMEN MEMBRANE 12 CELULLAR GLASS INSULATION 13 VAPOR BARRIER 14 STYROFOAM 2.5CM 15 PLASTER



winter garden section I / 가







The construction stands on the lower part of a steep slope; it organically integrates with the landscape thanks to the verticality of two volumes built according to a strict regulation and bearing in mind the building height in order to preserve the view on the historical village on top of the hill. The void generated between the main volumes, hosts the stairs that link the shifted levels at different heights and give the feeling of walking on the natural slope as if nature were part of the built spaces. The use of shadowed spaces and of glazed winter gardens in this particular region becomes an energy saving natural instrument while using passive solar energy in opposite ways during summer and winter. Collecting heat through the flooring irradiation in winter and cooling through the shadowed porches in summer.

// Text / Davide Macullo Architetto

W. 1



DAVIDE MACULLO: COMMENCES WORKING IN THE ATELIER OF MARIO BOTTA IN LUGANO IN 1990 AS ARCHITECT RESPONSIBLE FOR PROJECTS ABROAD OPENS HIS ATELIER IN 2000. SINCE 2002 THE OFFICE AIMS AT BECOMING A PLACE OF "CROSS -EXPERIENCES" BY PROMOTING A PROFICUOUS CULTURAL EXCHANGE WITH ARCHITECTS COMING FROM DIFFERENT BACKGROUNDS. THE SEPARATE CONTRIBUTIONS WILL PROMOTE AN ALL - EMBRACING APPROACH TO ARCHITECTURE, SPANNING FROM THE THEORETICAL ANALYSIS OF THE TERRITORY TO PEDAGOGY AND THE SUSTAINABILITY OF THE CONSTRUCTION.

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(50X50) 2.5CM facade section K /

82 DETAILS HOUSE IN COMANO 83

HOUSE IN TICINO

Davide Macullo Architetto I Davide Macullo

Located in one of sunniest place of southern Switzerland, this house rises on the site where once old rural constructions were. It is characterized by small monolithic volumes standing on the natural slope of the land and it is surrounded by nature. The new construction reminds the pre - existences by four volumes that follow the edges of a 14meter - square ground and by displaying a carved roof. The landscape seems to "Flow" through these volumes that become a protected living space; a continuation of the green environment modeled as if to be part of the building. The construction is enhanced by an entrance "Cave" surrounded by the green and following the slope in an organic and fluent sequence of spaces, related to each other and stretched outside. This typology aims at offering an alternative to the "Box - shaped" construction on the hills more and more urbanized and spoiled from their peculiarities by an aggressive attitude of building without respect to the environment. The whole construction has been realized according to the principles of sustainability and with bio - ecological materials.

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Location Ticino, Switzerland

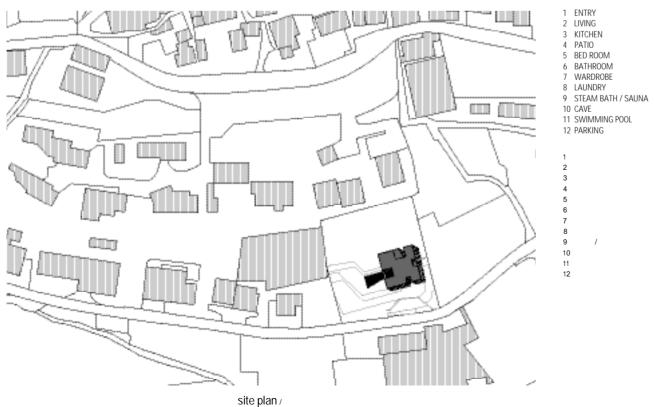
Use Housing

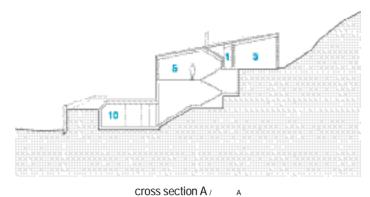
Site area 1,456m²

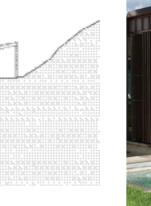


SITE PLAN / FLOOR PLAN / ELEVATION / SECTION

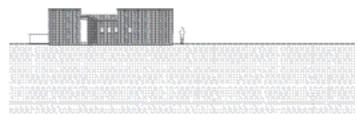


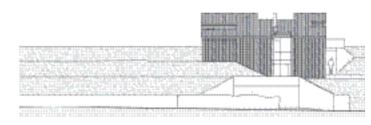






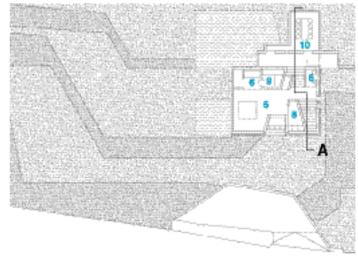


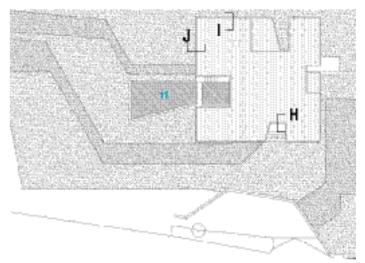




north elevation /

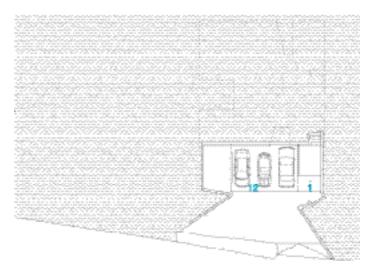
south elevation /

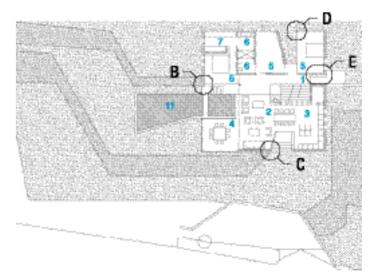




level - 2.90 floor plan / -2.90

roof plan /

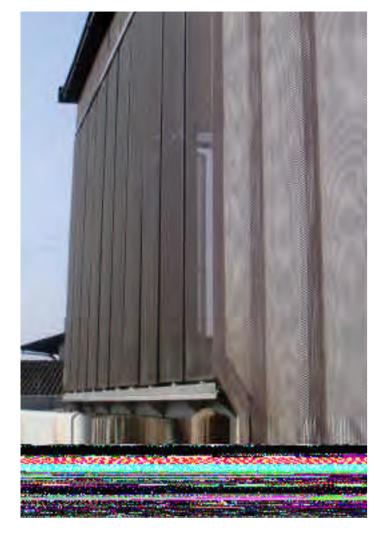




level - 5.31 floor plan / -5.31

level 0.00 floor plan / 0.00

OUTER WALL / WINDOW



18 VOID 19 GIPS BOARD 20 ROOF INSULATION 28CM

12CM

23 INTERIOR 24 EXTERIOR

27 WATERDRAIN

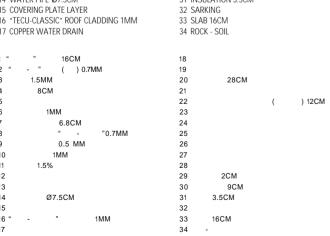
28 FILTERING SCREED LAYER 29 WOOD FLOOR 2CM 30 CONCRETE SCREED 9CM 31 INSULATION 3.5CM

21 STEKO SLAB SANDWICH PANELS

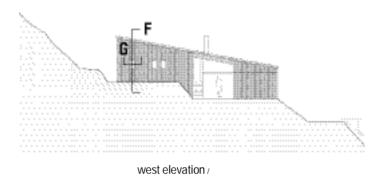
25 STONE PAVING 26 STAINLESS STEEL CONTAINING PROFILE

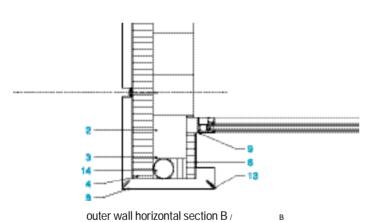
22 STEKO SLAB SANDWICH PANELS(SIDE VIEW)

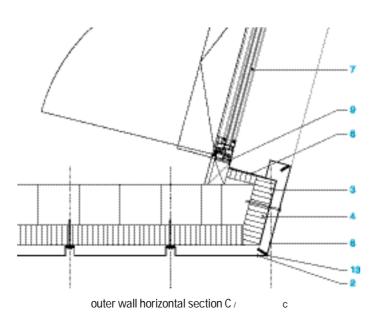
- 1 "STEKO" WOOD BRICKS 16CM
 2 "TECU-NET" CLADDING(COPPER) 0.7MM
 3 WATERPROOFING 1.5MM 4 THERMAL INSULATION 8CM 5 BLINDS
- 6 COPPER CLADDING 1MM 7 ALLUMINIUM FRAME 6.8CM 8 COPPER CLADDING TYPE "TECU-CLASSIC" 0.7MM
- 9 ANTI OXIDATION LAYER 0.5 MM 10 COPPER PLATE 1MM
- 11 SLOPE ELEMENT 1.5%
 12 REINFORCEMENT CONCRETE SCREED
 13 FIXATION WITH PIGMENTED SILICON 14 WATER PIPE Ø7.5CM
- 15 COVERING PLATE LAYER 16 "TECU-CLASSIC" ROOF CLADDING 1MM 17 COPPER WATER DRAIN

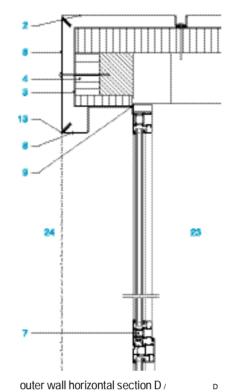


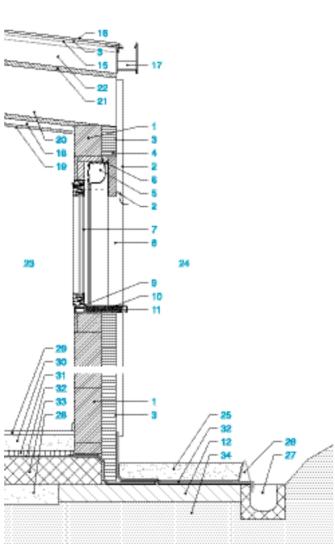






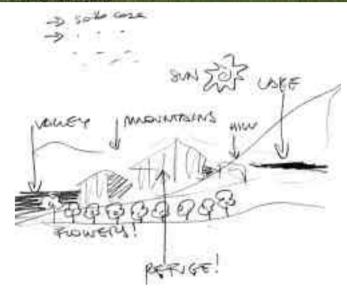


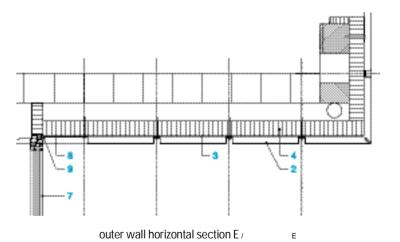


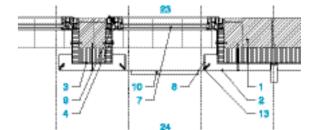


window vertical section F /









window horizontal section G /









12 STRUCTURE 80X120

14 WATER PIPE Ø7.5CM

15 COVERING PLATE LAYER 16 "TECU-CLASSIC" ROOF CLADDING

17 COPPER WATER DRAIN

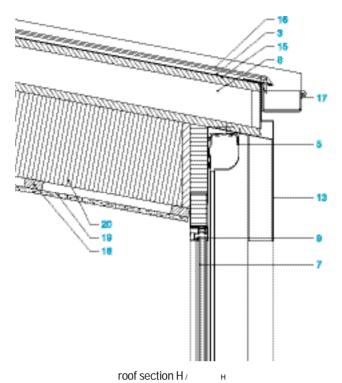
20 ROOF INSULATION 28CM 21 STAMISOL

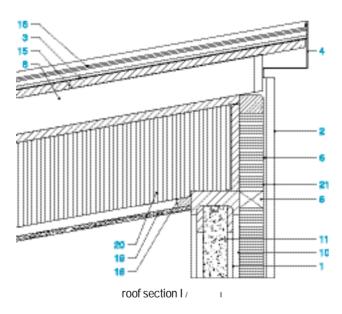
18 STRUCTURE 30X60

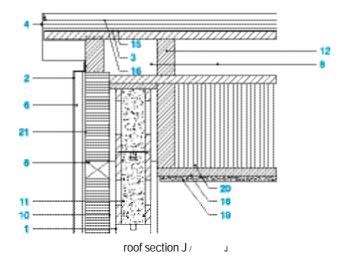
19 GIPS BOARD

13 COPPER BOX "TECU-CLASSIC"

- 1 "STEKO" WOOD BRICKS 16CM 2 "TECU-NET" CLADDING(COPPER) 0.7MM 3 WATERPROOFING 1.5MM 4 COPPER PANEL 1.7MM
- 5 BLINDS 6 WOODEN FRAME STRUCTURE 7 ALLUMINIUM FRAME 6.8CM
- 8 VOID 12CM 9 ANTI OXIDATION LAYER 0.5MM 10 TW WIND PROTECTION LAYER
- 11 ISOFLOC INSULATION 8CM
- 12 16CM 80X120 () 0.7MM 1.5MM Ø7.5CM 1.7MM 16 " 6.8CM 18 30X60 12CM 20 10 TW 11 ISOFLOC 8CM









An intelligent selection and coupling of building materials is a recurrent strategy in Davide Macullo's works, a strategy that increases its significance in a perspective of a more sustainable way to design and build our habitat. The single - family house in Ticino is a further example of this approach. Wood and copper are unusual materials if linked to the current idea of an high - standard of living. In this work those materials are increased in value, utilizing them for their best sustainable features. A double envelope contains and protects the interior spaces. The internal envelope is built with the wood - bricks Steko system, a constructive technology which adds further "Assets" to the renowned sustainable features of wood, natural, renewable and healthy building material. The Steko system utilized even in the internal partitions is fully recyclable and reduces the time spent on site, with a corresponding reduction in noise, dust, site traffic and other environmental nuisances. The external skin is made of a copper screen, another natural and fully recyclable building material that protects the wooden internal envelope from overheating. Standard prefabricated elements, like the Steko bricks or the copper external skin, are well suited to the simple and compact forms of a project that would reduce energy consumption. In the House in Ticino, all those features appear effectively combined with a high standard of living, defining a new conception of comfort. This project has been awarded with the 2007 International Tecu Award for the use of copper in architecture.

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DAVIDE MACULLO: COMMENCES WORKING IN THE ATELIER OF MARIO BOTTA IN LUGANO IN 1990 AS ARCHITECT RESPONSIBLE FOR PROJECTS ABROAD OPENS HIS ATELIER IN 2000. SINCE 2002 THE OFFICE AIMS AT BECOMING A PLACE OF "CROSS -EXPERIENCES" BY PROMOTING A PROFICUOUS CULTURAL EXCHANGE WITH ARCHITECTS COMING FROM DIFFERENT BACKGROUNDS. THE SEPARATE CONTRIBUTIONS WILL PROMOTE AN ALL - EMBRACING APPROACH TO ARCHITECTURE, SPANNING FROM THE THEORETICAL ANALYSIS OF THE TERRITORY TO PEDAGOGY AND THE SUSTAINABILITY OF THE CONSTRUCTION.

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134 DETAILS