

RESIDENTIAL SKIN & DETAILS

住宅外墙结构

刘翰林 编 常文心 译



辽宁科学技术出版社

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First Crescent

第一新月住宅

Location: Camps Bay, South Africa

Architect: Stefan Antoni Olmesdahl Truen Architects

Gross Floor Area: 684m²

Completion Date: 2007

Photographer: Wieland Gleich & Karl Beath

项目地点: 南非, 开普顿

建筑师: 斯蒂芬·安东尼·欧梅斯达尔·特鲁恩建筑事务所

建筑面积: 684平方米

完成时间: 2007年

摄影师: 维兰德·格莱克与卡尔·比思摄影团队

The owner's brief was to design a dramatic, memorable house. The house needed to suit his specific aesthetic considerations and have the flexibility.

Materials were selected by architects to create a calm and contemplative feeling. The pale colours reflect light in all spaces complementing the casual feel of the house.

Polished porcelain tiles were used throughout – large, light and seamless, ensuring uniformity between spaces. Moreover, it features the joinery – single tone and understated, with stylish square door “knobs” in bedrooms as well as “Walnut” cladding to the cantilever tread with rich contrasting colour.

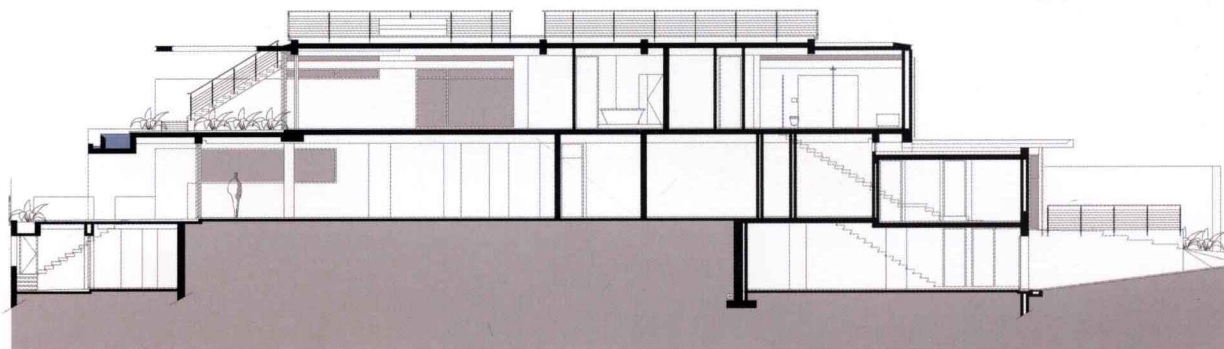
Clerestory frameless glazing (skylights) replaced structure and framed views which might otherwise have been missed. Sandblasting of the full height glazing at the eastern boundary enabled the designers to maximise light to the linear passage and maintain views of the mountain peaks whilst adhering to council's requirements and ensuring privacy of the neighbouring property.

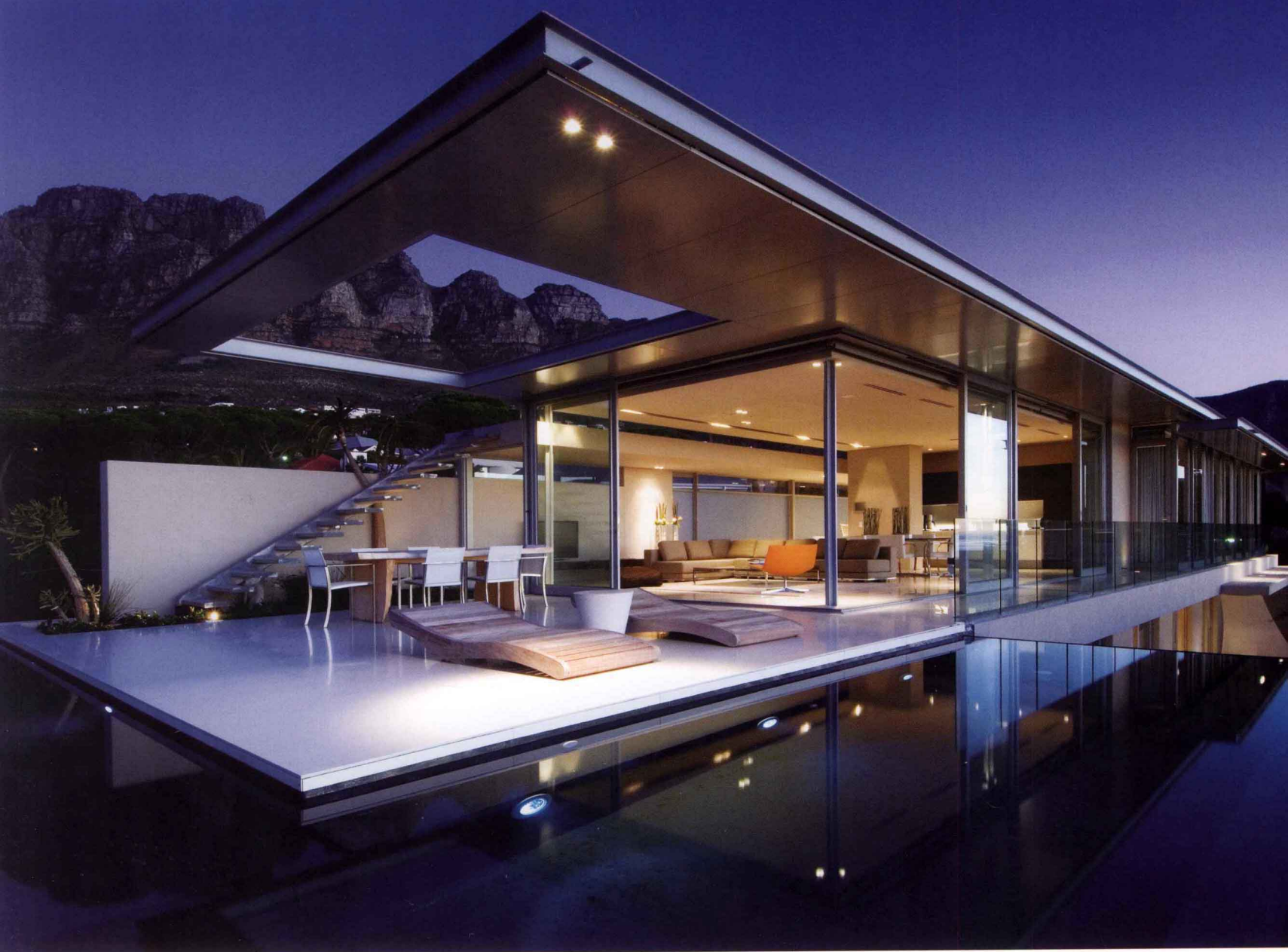
The design is primarily in response to site and aspect and creates a dramatic space for enjoyable living – that is always in fashion.

客户要求设计一栋令人神往而具有纪念意义的住宅。因此，房子既要符合客户的特殊审美，而且也要具有一定的灵活性。所选材料给人一种沉静、激发人深思的感觉；淡雅的色调装饰打造了明亮的室内空间，与房子的简单随意相中和。室内布满了抛光瓷砖——大块瓷砖，色彩明亮，无缝黏合，保证空间的统一性。此外，还有简单朴素、单一色调细木制品，卧室风格迥异的方形门把手及悬臂踏板上颜色对比鲜明的核桃木包层。

天窗的无框透明玻璃为原本黑暗的棚顶增加了视觉穿透力。东边的落地式玻璃经过喷砂处理后可以最大限度地将光线照进走廊，既保证了观赏山峰的良好视角又完全符合建筑管理委员会的要求，同时也保证了相邻建筑的隐蔽性。

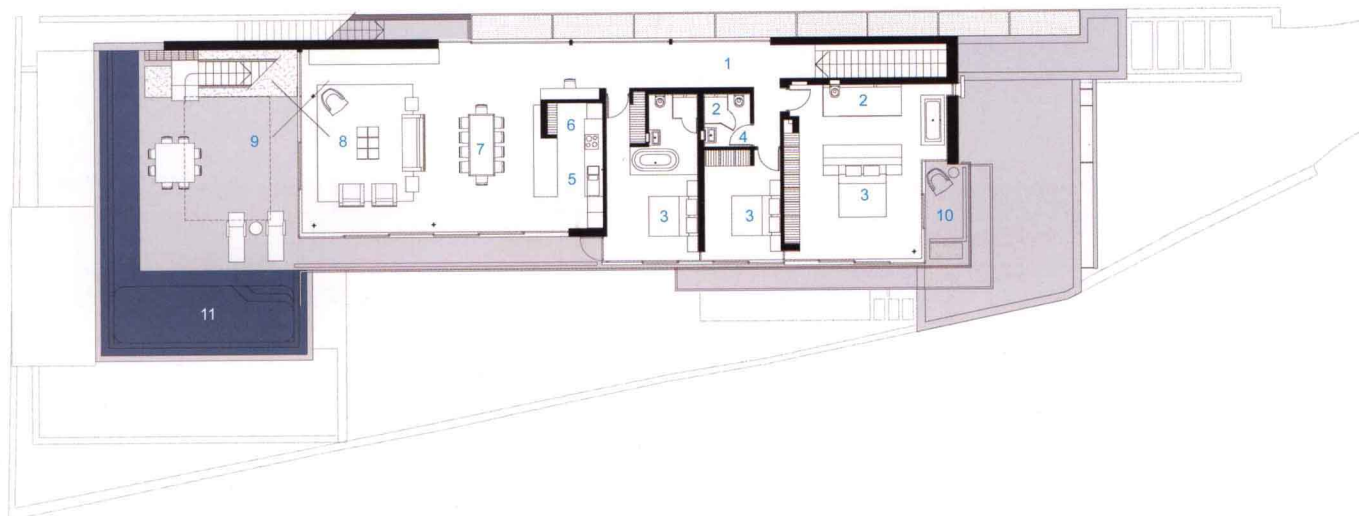
设计主要考虑了地形特点和周围环境，打造了一个美妙绝伦且永追时尚潮流的快乐生活空间。





First Floor Plan: 二层平面图:

- | | |
|----------------|---------|
| 1. Passage | 1. 走廊 |
| 2. En-suite | 2. 套房 |
| 3. Bedroom | 3. 卧室 |
| 4. Shower | 4. 淋浴间 |
| 5. Kitchen | 5. 厨房 |
| 6. Scullery | 6. 洗碗槽 |
| 7. Dining Room | 7. 餐厅 |
| 8. Living Room | 8. 客厅 |
| 9. Terrace | 9. 露台 |
| 10. Balcony | 10. 阳台 |
| 11. Pool | 11. 游泳池 |



Section through Roof at Bedrooms (Below):

1. 30mm recess to u/s of external RC soffit to cease at centre of aluminium frame

2. Min.125×100mm finished recess required for motorised blind installation

3. Additional min.150mm required for curtain track installation

4. 9.4mm skimmed Rhinoboard bulkhead by specialist to align with wall/columns

5. Aluminium bu specialist

6. Timber filler by main contractor

7. No plaster to u/s of soffit

8. 25×25×2mm steel fixing angle for Hulabond by specialist

9. Recess from bending of 25×25mm Hulabond

10. Hulabond to be fixed with pop rivet to steel angle by specialist

11. 4mm white Hulabond by specialist

12. Min.30mm stone chips to later arch.spec.

13. Geoflex uniflash (or other) lapped onto steel and over Derbigum

14. Steel beam to eng.spec.

15. Fixings for Shuttaborad to eng.spec.

16. Polyurethane joint between steel beam and angle by specialist

17. 25×25×2mm steel fixing angle for Hulabond by specialist

18. Line of steel beam beyond to eng.spec.

19. Recess from bending of 25×25mm Hulabond
20. Hulabond to be fixed with pop rivet to steel angle by specialist

21. Steel beam to eng.spec.

22. RC slab to eng.spec.

23. 25×25×2mm steel fixing angle for Hulabond by specialist

24. Recess from bending of 25×25mm Hulabond

25. Hulabond to be fixed with pop rivet to steel angle by specialist

26. Steel 'hanger' beyond to eng.spec.

27. Line of steel beam beyond

28. Derbigum SP4 torch fused with 75mm side&100mm end laps

29. Bituminous coating

30. 22mm Shuttaborad to fall to spigots to eng.spec. detail

31. Line of steel beam beyond

32. Geoflex uniflash (or other) lapped onto steel and over Derbigum

33. Steel beam to eng.spec.

34. 50Φmm spigot with fixing plate to eng.spec. and detail

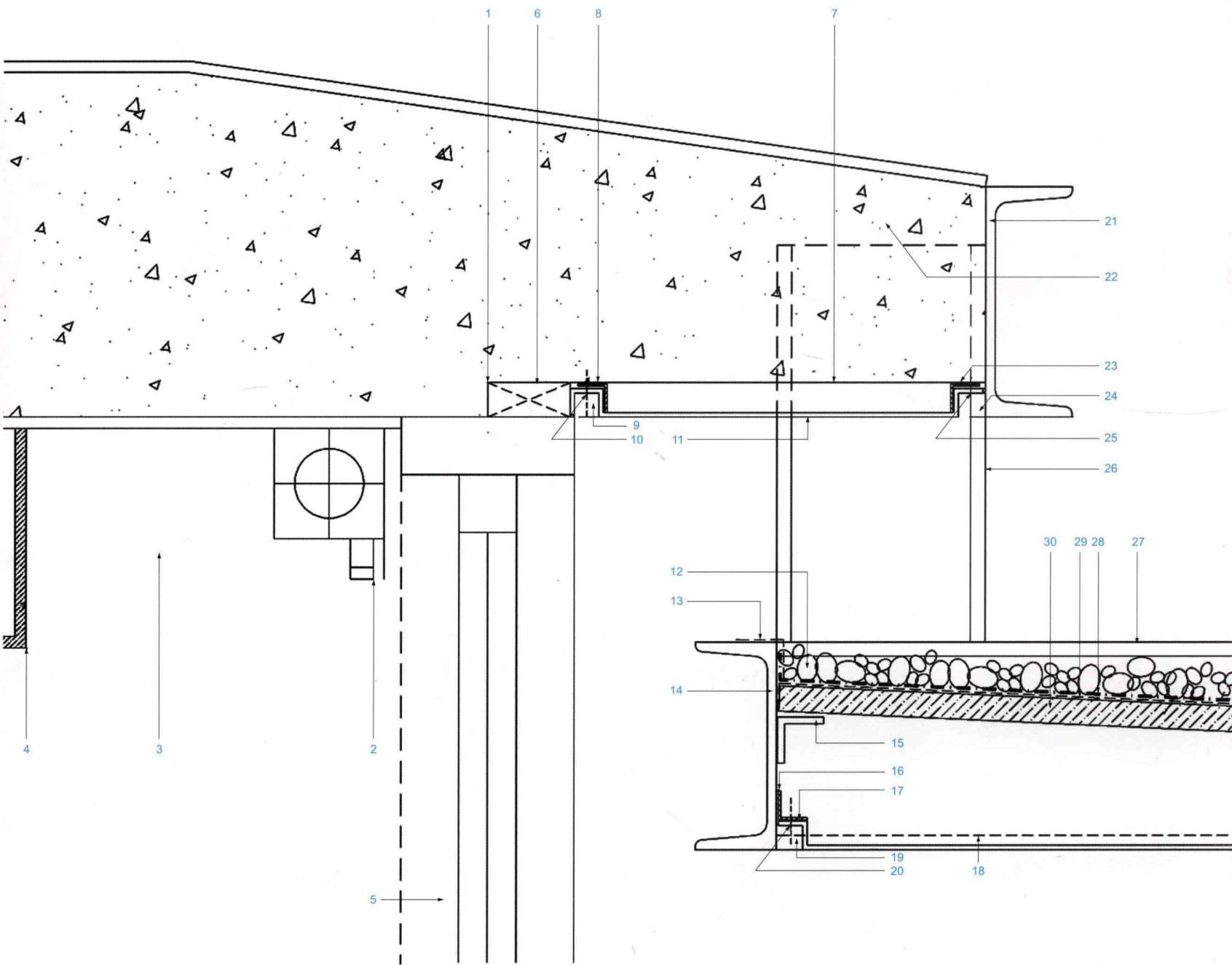
35. Fixings for Shuttaborad to eng.spec.

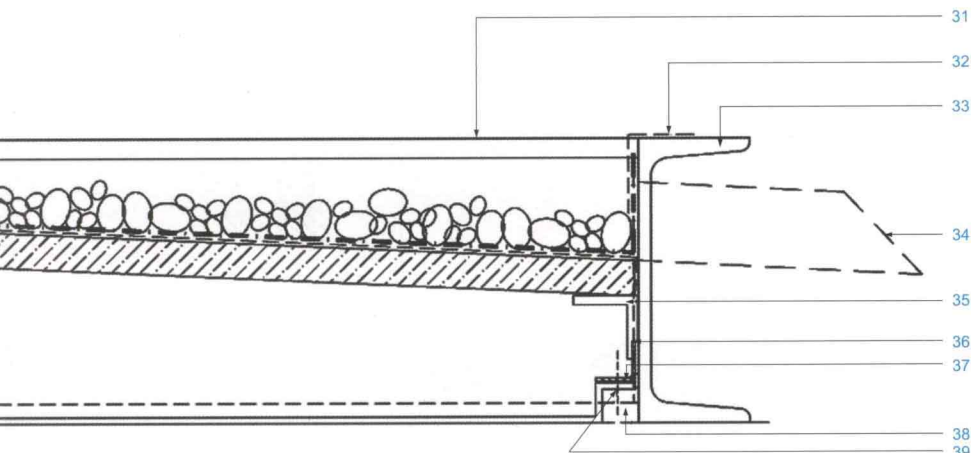
36. Polyurethane joint between steel beam and angle by specialist

37. 25×25×2mm steel fixing angle for Hulabond by specialist

38. Recess from bending of 25×25mm Hulabond

39. Hulabond to be fixed with pop rivet to steel angle by specialist





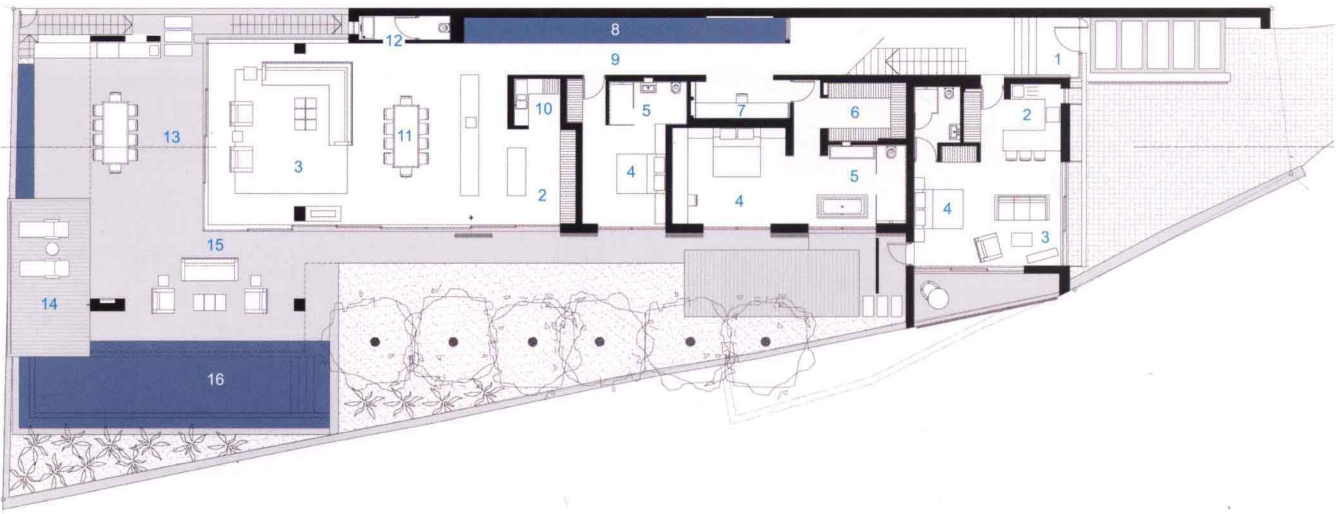
卧室屋顶截面图（左）：

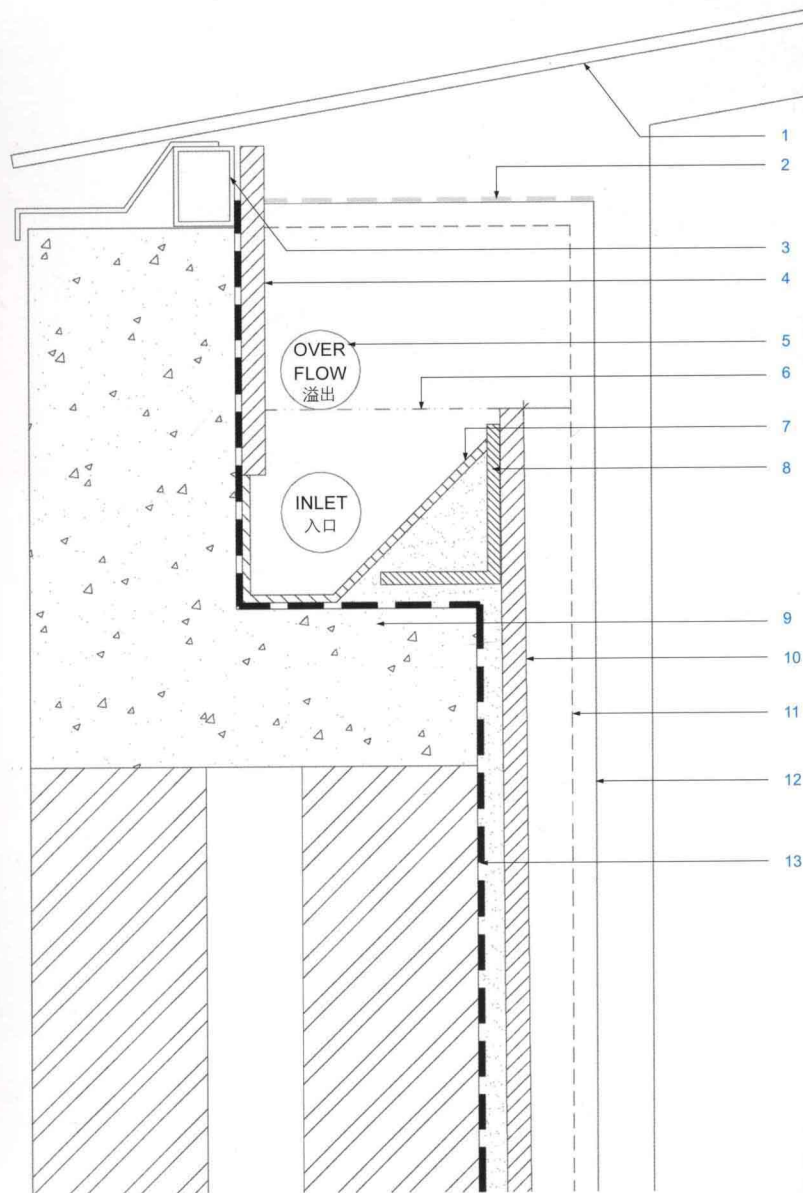
1. 外部钢筋混凝土底面凹槽30毫米，直至铝框的中央
2. 机动盲点安装要求凹槽最小值125×100毫米
3. 窗帘滑道安装要求额外的凹槽最小值150毫米
4. 特制的9.4毫米脱脂犀牛板隔板，与墙体和柱子结为一体
5. 特制铝板
6. 总承包商提供了木料填充物
7. 底面没有石膏
8. 特制的接头，25×25×2毫米固定角钢
9. 接头凹槽弯曲度25×25毫米
10. 特制的由空心铆钉与角钢固定的接头
11. 特制的4毫米白色接头
12. 最小值30毫米的石屑
13. 与钢铁重叠的反射角
14. 钢梁
15. 固定沙塔板
16. 钢梁和直角之间的聚氨酯接合处
17. 特制的接头，25×25×2毫米固定角钢
18. 钢梁线
19. 接头凹槽弯曲度25×25毫米
20. 特制的由空心铆钉与角钢固定的接头
21. 钢梁
22. 钢筋混凝土平板
23. 特制的接头，25×25×2毫米固定角钢
24. 接头凹槽弯曲度25×25毫米
25. 特制的由空心铆钉与角钢固定的接头
26. 钢挂钩
27. 钢梁线
28. 德比加姆SP4与75毫米侧板和100毫米端搭板焊接在一起
29. 沥青涂层
30. 嵌入插口的20毫米沙塔板
31. 钢梁线
32. 与钢铁重叠的反射角
33. 钢梁
34. Φ50毫米插口与固定板
35. 沙塔板固定处
36. 钢梁和直角之间的聚氨酯接合处
37. 特制的接头，25×25×2毫米固定角钢
38. 接头凹槽弯曲度25×25毫米
39. 特制的由空心铆钉与角钢固定的接头



Ground Floor Plan: 一层平面图:

- | | |
|--------------------|-----------|
| 1. Entrance | 1. 入口 |
| 2. Kitchen | 2. 厨房 |
| 3. Lounge | 3. 休息室 |
| 4. Bedroom | 4. 卧室 |
| 5. En-suite | 5. 套房 |
| 6. Dressing Room | 6. 更衣室 |
| 7. Study | 7. 书房 |
| 8. Pond | 8. 池塘 |
| 9. Passage | 9. 走廊 |
| 10. Scullery | 10. 洗碗槽 |
| 11. Dining Room | 11. 餐厅 |
| 12. W.C. | 12. 洗手间 |
| 13. Terrace Dining | 13. 露台餐厅 |
| 14. Sun Deck | 14. 日光平台 |
| 15. Terrace Lounge | 15. 露台休息室 |
| 16. Pool | 16. 游泳池 |





Section through Skylight at Pond (Above):

1. Glazing
2. 2mm aluminium plate to top of wall beyond
3. 50×38mm GMS RHS
4. Stone slab to be epoxy fixed to lining
5. 50mmΦ water pipes
6. Water level
7. Mosaics/tiles to be epoxy fixed to lining
8. 100×75×8mm grade 316 stainless steel angle, epoxy fixed to fibreglass lining by specialist
9. RC trough and 'rimflow' to eng.spec
10. Stone slab at slight angle
11. Edge of tile and start of plaster
12. Plastered and painted
13. Cemflex and fibreglass waterproofing to specialist detail

池塘天窗截面图（上图）：

1. 玻璃装配
2. 墙顶的2毫米铝板
3. 50×38毫米 GMS RHS
4. 固定在墙线上的石板
5. Φ50毫米水管
6. 水平面
7. 固定在墙线上的马赛克/瓷砖
8. 100×75×8毫米316级不锈钢角钢，固定在玻璃纤维内衬上
9. 钢筋混凝土水槽和流动缘
10. 轻斜角石板
11. 瓷砖边缘和石膏
12. 石膏和喷漆
13. 陶瓷和玻璃纤维防水层

Casa SA

SA别墅

Location: Leon, Mexico

Architect: parquehumano

Gross Floor Area: 600m²

Completion Date: 2009

Photographer: Paul Rivera, Archphoto

项目地点: 墨西哥, 利昂

建筑师: 帕克·修曼诺

建筑面积: 600平方米

完成时间: 2009年

摄影师: 保罗·里维拉建筑摄影

The site is a lot located in Leon (Mexico's seventh most populous city), an area characterised by a semi-arid climate (temperature ranges from -20 in winter to 36 in summer), with cold winter wind from the northeast.

The conception of this project began with a question: whether or not the designers would be able to create a building using a model-making process to develop the design. One of the most important determining factors for the project was the son of the client, who is visually impaired. The challenge of the project was then to generate a sensorial experience rooted in sounds and smells within a design that allowed for easy orientation, modulated totality in 90cm and whose spaces were in direct contact with the outdoors.

The volume of the building responds to the movements of the sun and wind in order to create a state of comfort without the use of mechanical systems. The main volume of the building contains the studio, the dining room/reflection pool, television room and bedrooms. The intersecting volume holds the living room, the dining room, and the kitchen.

Geometry, structure, and construction were viewed as a single concept during the creation of this project. The decision to use a structural system consisting of reinforced concrete slabs, which lend themselves to modular repetition, allowed for quick construction and lower costs.

项目位于利昂（墨西哥第七大城市），该地区属于半干旱气候（冬季最低温度-2℃，夏季最高温度36℃），冬季有寒冷的东北风。

项目设计开始于一个问题：设计师是否能够运用模型制作过程来打造一座建筑。决定项目设计的重要元素之一是委托人那视觉受损的儿子。项目的挑战在于在设计中植入听觉和嗅觉等感官体验，保证简单的定位，将噪音控制在90厘米厚的墙壁之外，并且建立空间与户外的直接联系。

建筑随着阳光和风向的运动而动，便于不利用机械系统就能营造出舒适的环境。建筑主体包含工作室、餐厅/倒影池、电视房和若干卧室。交叉结构包括起居室、餐厅和厨房。

几何造型、结构和建设在创建中被视为一个单一的理念。钢筋混凝土板组成结构系统，保证模块的重复性，实现了快速建造和低成本。

