

全球新建筑

Global Architecture Today II

办公、酒店、度假村

《设计家》编

Headquarters Office and Showroom

企业总部办公及展示

Office Building

办公楼

Municipal Office

市政办公

Office Park

办公园区

Innovative

小型创意办公

Hotel & Resort

酒店&度假村



天津大学出版社
TIANJIN UNIVERSITY PRESS

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序言——全景展现全球建筑最新成果与动态

《全球新建筑》是《设计家》编辑部继成功出版《中国新建筑》之后，及时推出的具有全球视野，关注全球范围内最具创新性、引导性的优秀建筑作品集，旨在为正在快速成长中的中国建筑业提供一个深入了解并感受世界各文化地域近年来最前沿的建筑发展动向及成果的机会，以期为中国建筑实践提供有价值的参考。

《全球新建筑》共五册，书中汇集了来自全球七十多家著名建筑师事务所在全球范围内完成或在建的最新原创建筑设计作品 200 多个，涵盖商业、办公、酒店、文化、教育、体育、公共服务、宗教、会议、剧院、博览、美术馆、图书馆、居住等各种建筑类型，是当下国际建筑创作的集中体现，也是城市建筑风貌的一个很好缩影。

I 商业空间：

商业空间以全球最具代表性的商业类建筑事务所的最新优秀作品为主体，如美国凯里森的作品：杭州万象城；美国捷得的作品：日本桥本市 Konoha 购物中心；英国贝诺的作品：St.David 购物中心等。甄选作品时，我们希望兼顾全面性与代表性，既有大型购物中心及旗舰店、商业综合体，亦收录了商业步行街及其它休闲娱乐项目的优秀代表作。

II 办公、酒店：

办公部分由企业总部办公及展示、办公楼、市政办公、办公园区及小型创意办公五个章节组成。清晰详细的分类不仅提供了方便有效的阅读，同时也旨在展示一幅全景式的办公作品盛宴。如果说索尼大崎新楼、米兰杰尼亚总部等作品展现了高层、多层办公及企业展示项目的丰富经验，那么，光之屋、福戈岛艺术工作室等则为创意类工作场所的实践提供了丰富的灵感与想象。

此次酒店部分的作品甄选更加关注作品本身的独特性，因而我们分别从城市五星级酒店、度假型酒店、设计酒店案例中慎重筛选收录了十个最前沿、最经典、最设计、最浪漫的酒店作品，如：新加坡 St. Regis 酒店，克罗地亚 Lone 酒店，及悦榕庄的最新力作。

III ， IV 文教空间：博览空间

文教空间包含文化中心、剧院、音乐厅、会议中心、教育、体育及宗教等方面的作品。博览空间包括：博物馆、美术馆、展览馆、图书馆、公共服务设施等方面的作品。

本套书的征稿过程中，文教及博览类项目给我们带来了连连惊喜。这些事务所及作品大多集中在欧洲、北美，也有部分作品分布在泰国、日本及中国等。它们在为展示多层次、多方面的空间形体的同时，也带来了全球各文化地域在建筑材料、技术等方面的丰富经验与创新成果，如 Henning Larsen 建筑事务所在雷克雅未克“哈帕”音乐厅与会议中心的立面设计中运用新材料——“准砖”（quasi-brick）创造出了一种模糊室内与室外，主体与客体，幻象与再现的视觉装置，令人印象深刻。

V：居住及小型独立建筑

居住及小型独立建筑旨在收录全球各文化地域内既具本土特色又显现代设计理念的精品别墅及公寓，如：美国 Preston Scott Cohen 公司设计的林间雅舍、秘鲁 Javier Artadi 建筑事务所设计的浪漫的拉斯帕尔梅拉斯海滨别墅，日本富士山建筑事务所的代表作树屋，丹麦 Henning Larsen 事务所设计的滨水地标性公寓——瓦埃勒海浪等。

在中国建筑实践丰富多彩的当下，深入了解全球建筑的最新成果与动态，无疑将是中国建筑融入世界并凸显自我的最佳路径。

Global Architecture Today is a collection of the architectural works in the worldwide area by Designer & Designing Magazine, instantly after the successful publication of the series books- **New Architecture In China**. The new collection focuses on the most innovative and leading projects with a global vision, and aims at providing a valuable reference for the fast growing Chinese buildings with the thorough touch of the latest architectural development achievements and trend of the worldwide regions of different cultures.

Global Architecture Today includes five volumes in all, which provides a professional platform for more than 200 works, finished or unfinished, from a global wide of 70 top architects studios. These latest achievements covered a wide range of fields, including commercial areas, offices, hotels, culture, education, sports, public facilities, religion, conference, theatre, exhibition, art museum, library, housing, etc. They showed readers with an overview of the latest international architecture works, and reflections of the images of urban buildings.

The Editorial Department of Designer & Designing Magazine
May, 2012

Contents

Headquarters Office and Showroom

- 8 Sony's Osaki New Building
NIKKEN SEKKEI
- 18 Mokuzai Kaikan
NIKKEN SEKKEI
- 26 Ermenegildo Zegna Headquarters, Milan, Italy
Antonio Citterio Patricia Viel and Partners with Studio di Architettura Beretta Associati
- 36 Siemens Headquarters in Munich
HENNING LARSEN ARCHITECTS
- 42 Ordos Office Complex
Preston Scott Cohen, Inc.
- 46 Victorinox/Swiss Army Brands, Inc. Corporate Headquarters
Perkins Eastman
- 50 Showroom Pertot
Dekleva Gregorič Arhitekti

Office Building

- 58 "Raster on Shinsaibashi" Office Building, Osaka, Japan
ANTONIO CITTERIO PATRICIA VIEL AND PARTNERS
- 66 Jinqiao Office Park
AS Architecture-Studio
- 70 Bryghusprojektet
OMA
- 76 Residential and Office Complex at HafenCity, Hamburg, Germany
ANTONIO CITTERIO PATRICIA VIEL AND PARTNERS
- 82 Castellana 79 Building
RAFAEL DE LA-HOZ CASTANY
- 86 Le Maire, Arnhem
Cie.
- 90 Cube Tube in Jinhua
SAKO Architects
- 96 Target Tower
BELZBERG ARCHITECTS
- 100 Solar Power Offices
OFIS
- 104 S11 – Office Complex "Steckelhorn 11"
J. MAYER H. Architects

- 112 Sonnenhof
J. MAYER H. Architects
- 116 ADA 1 – Office Building "An der Alster 1"
J. MAYER H. Architects
- 126 Palazzo Aporti, Milan
ANTONIO CITTERIO PATRICIA VIEL AND PARTNERS
- 136 Extension and Restoration of Tenerife's Island Council
AMP arquitectos

Municipal Office

- 142 Stads Kantoor Rotterdam
OMA
- 146 Provincial Archive
HEIKKINEN-KOMONEN ARCHITECTS
- 154 Finnish Embassy
HEIKKINEN-KOMONEN ARCHITECTS
- 160 City Municipality Ljubljana
OFIS
- 168 Court of Justice, Hasselt
J. MAYER H. Architects A2O-Architecten
Lens'ass Architecten
- 172 DMRC Operational Control Centre
RAJ REWAL
- 180 HBB. Harbor Brain Building
C+S ASSOCIATI

Office Park

- 188 Office, Store & Shop Concrete Container
OFIS
- 196 Cracow Technology Park
nsMoon Studio
- 204 Metal Recycling Plant, ODPAD PIVKA
Dekleva Gregorič Arhitekti

Innovative Office

- 212 The House of Light
Andrija Rusan (Rusan Arhitektura Office)
- 222 20th St. Offices
BELZBERG ARCHITECTS
- 230 Hot Bed of Creativity in Hackney
Ash Sakula Architects

- 238 Fogo Island Artist Studios
SAUNDERS ARCHITECTURE AS

Hotels & Resorts

- 252 The Ritz-Carlton, Guangzhou
WATG
- 260 St. Regis Hotel & Residences Singapore
WATG
- 268 Banyan Tree Club & Spa Seoul
Architrave Design and Planning
- 274 Banyan Tree Ungasan
Architrave Design and Planning
- 282 Banyan Tree Macau
Architrave Design and Planning
- 292 Naked Stables Private Reserve
benwoodStudio Shanghai
- 308 CASA DE LA FLORA
VaSLab Architecture
- 316 Hotel CHA-AM
Bunnag Duangrit
- 324 HOTEL LONE
3LHD
- 336 RAAS JODHPUR
Lotus Design Services, Praxis
- 350 KIMAMAYA BOUTIQUE HOTEL
Atelier BNK
- 358 LUNA2 PRIVATE HOTEL
Wahl Architects

目 录

企业总部办公及展示

- 8 索尼大崎新楼
日建设计
- 18 木材会馆
日建设计
- 26 意大利米兰埃麦尼吉尔多·杰尼亚总部
Antonio Citterio Patricia Viel及合伙人事务所
Beretta联合建筑事务所
- 36 西门子慕尼黑总部
HENNING LARSEN建筑事务所
- 42 鄂尔多斯办公综合楼
Preston Scott Cohen建筑事务所
- 46 维氏/瑞士军刀品牌公司总部
Perkins Eastman
- 50 佩尔托特展示厅
Dekleva Gregorić建筑事务所

办公楼

- 58 日本大阪“心斋桥光栅”办公楼
ANTONIO CITTERIO PATRICIA VIEL及合伙人
- 66 金桥开发区研发楼
法国A.S.建筑工作室
- 70 Bryghusprojektet多功能大楼
大都会建筑事务所
- 76 德国汉堡港口城住宅与办公楼综合楼
ANTONIO CITTERIO PATRICIA VIEL及合伙人
- 82 卡斯泰拉纳79楼
RAFAEL DE LA-HOZ CASTANY建筑事务所
- 86 安海姆, Le Maire
Cie.建筑事务所
- 90 金华立方大厦
SAKO建筑设计工社
- 96 塔吉特大厦
BELZBERG建筑事务所
- 100 太阳能办公室
OFIS建筑事务所
- 104 S11 – “Steckelhorn 11” 办公综合体
J. MAYER H. 建筑事务所
- 112 Sonnenhof综合楼
J. MAYER H. 建筑事务所
- 116 ADA 1 — “阿尔斯特一号” 办公楼
J. MAYER H.建筑事务所

- 126 米兰阿波尔蒂殿
ANTONIO CITTERIO PATRICIA VIEL及合伙人

- 136 特尼里弗岛议会的扩建与修复
AMP建筑事务所

市政办公

- 142 鹿特丹Stadskantoor市政厅
大都会建筑事务所
- 146 省级档案馆
HEIKKINEN-KOMONEN建筑事务所
- 154 芬兰大使馆
HEIKKINEN-KOMONEN建筑事务所
- 160 卢布尔雅那市政府
OFIS建筑设计公司
- 168 哈瑟尔特法院
J. MAYER H.建筑事务所 A2O-建筑事务所
Lens°ass建筑事务所

- 172 德里地铁公司操控中心
RAJ REWAL

- 180 HBB—港口枢纽建筑
C+S建筑事务所

办公园区

- 188 办公、仓库、商店的混凝土盒子
OFIS建筑事务所
- 196 克拉科夫技术园区
nsMoon工作室
- 204 金属回收工厂, ODPAD PIVKA
Dekleva Gregorić建筑事务所

小型创意办公

- 212 光之屋
Andrija Rusan (Rusan建筑事务所)
- 222 第二十大道办公楼
BELZBERG建筑事务所
- 230 海克尼温床的创造力
Ash Sakula建筑事务所
- 238 纽福戈岛艺术工作室
SAUNDERS建筑事务所

酒店、度假村

- 252 广州利兹卡尔顿酒店
WATG建筑事务所
- 260 新加坡St. Regis酒店及公寓
WATG建筑事务所

- 268 首尔悦榕庄
Architrave设计与规划

- 274 乌干沙悦榕庄
Architrave设计与规划

- 282 澳门悦榕庄
Architrave设计与规划

- 292 裸心 | 谷
上海工作室

- 308 绿色城堡
VaSLab建筑事务所

- 316 差安酒店
布纳格·端格瑞特

- 324 Lone 酒店
3LHD 建筑事务所

- 336 印度焦特布尔RAAS度假酒店
莲花设计服务, Praxis

- 350 KIMAMAYA 精品酒店
BNK 工作室

- 358 LUNA 2 私人酒店
瓦尔建筑事务所

Headquarters Office and Showroom

企业总部办公及展示

Sony's Osaki New Building

索尼大崎新楼

NIKKEN SEKKEI 日建设计

Location: Tokyo, Japan

Typology: Office

Site Area: 16,558.52 m²

Building Area: 10,611.26 m²

Gross Floor Area: 124,041.48 m²

Status: Completed in March 2011

Image Courtesy: Harunori Noda, Yutaka Suzuki

区位: 日本, 东京

类型: 办公

基地面积: 16558.52 m²

占地面积: 10611.26 m²

总建筑面积: 124041.48 m²

状态: 2011年3月建成

图片提供: 野田东德, 铃木丰

BIO SKIN

In March 2011, construction of Sony's new R&D office building was completed near the West Gate of Osaki Station (Shinagawa City, Tokyo). In this building, an innovative exterior system called the BIO SKIN, newly developed by Nikken Sekkei with several partners, has been adopted. The BIO SKIN enables reduction of the heat load inside the building and helps to reduce the urban heat island effect. Specifically, the BIO SKIN functions as a handrail of the balcony on the northeast facade of the building and as a sunshade during the morning hours. The BIO SKIN's delicate appearance also helps people to feel less overwhelmed with the largeness of the building.

The building was designed to be compact, enabling to create an area landscaped with bushes and trees. In addition, we have designed the building to have a smaller area facing the prevailing wind from the south, so that in the summer, the cool wind from the Tokyo Bay is blocked less and is allowed to blow to inland areas with some heat being taken away with the BIO SKIN and the grove. These are the efforts to make the best use of the site, which is located in a valley near the Meguro River and the Tokyo Bay, and in fact, was the bottom of the ocean in the Japanese prehistoric "Jomon Era."

In planning the new R&D office building, Sony, the client who had already owned a high-performance green building as its head office, requested that the R&D building make further progress in corporate environmental performance. Nikken Sekkei responded to the request by proposing to make the mitigation of the heat island effect as the underlying environmental theme, and this was approved by Sony.

The Nikken Sekkei Research Institute (NSRI), our landscape designers, and other staff studied various options by using heat environment simulation. While an increase in the amount of vegetation is proven effective in reducing the heat island effect, the site of the new building is such that the main facade would face northeast, making it unfavorable for use of a wall covered with vegetation. In addition, there was limited space to add plantings around the building. The planning team then found out that a significant effect could be delivered if the building itself could have a similar heat island mitigating effect as trees provide.

The first work undertaken was mock-up experiments of BIO SKIN's materials. Specifically, we used porous terra cotta that is suitable for evaporation of internal moisture. The sample louver made of terra cotta which has high evaporative cooling capacity and an ordinary sample louver made of aluminum were installed to face the same direction as the actual building plan and their surface temperature, ambient temperature, amount of evaporation, temperature and humidity of the surrounding areas, and wind speed were measured at periodic intervals. We found that the temperature of the wet terra cotta louver was 5-6°C lower than that of the aluminum louver, proving the superior cooling capacity of terra cotta.

Mold and moss tend to grow on terra cotta, which has a high water absorption rate. This problem has been solved by a coating of a photocatalyst (titanium oxide; TiO₂) on terra cotta louvers and installing louvers with sufficient in-between space in a well-ventilated area. The high water absorption rate also can cause ice jams in the winter. This has been solved by shaping the louver symmetrically with a certain thickness, which helps disperse the expansion and contraction stress caused by freezing water.







生态幕墙

2011年3月，位于大崎站（日本东京品川区）西门的索尼公司新的研发大楼竣工了。这座大楼采用了被称作生态幕墙的创新外部系统，该系统是由日建设计研究院和几家合作伙伴新近开发的。生态幕墙的使用能够减少楼内的热负荷，也有助于降低城市热岛效应。具体来说，生态幕墙是作为该大楼东北面阳台的栏杆，同时也可在上午作为遮阳罩使用。生态幕墙的精美外表还有助于使人们在面对如此大体量的建筑时，感觉不那么压抑。

该大楼紧凑的设计，创造出了一个被灌木丛和树木美化的景观。此外，通过设计减少了面向从南面来的盛行风的建筑面积。这样，在夏季，从东京湾刮来的凉风所受到的阻碍较少，凉风便可刮进内陆区域，和生态幕墙、小树林一起，带走一部分热量。这些努力的目的是以最优的方式利用该基地——基地位于目黑河和东京湾附近的谷底，正是日本史前“绳文时代”海洋的底部。

在规划新的研发大楼时，索尼公司已经拥有一座高性能的绿色大厦作为其总部。业主要求研发大楼在环境性能方面继续深化，并有所进步。于是日建设计研究院建议以减少热岛效应作为基本的环境主题，并获得了索尼公司的批准。

日建设计研究院（简称“NSRI”）和其他工作人员利用热环境模拟研究了各种设计选项。虽然增加植被数量已被证明可有效减少被热岛效应，但是受限于基地所在位置，新楼的主立面朝向东北方，并不适宜被植被覆盖。此外，在大楼周围可用来增加绿化的空间也十分有限。项目规划小组后来发现，如果大楼本身能够像树木那样有助于减少热岛效应，就可取得显著效果。

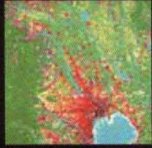
我们所做的第一项工作就是对生态幕墙材料进行模拟试验。具体来说，我们使用适合内部水分蒸发的多孔赤陶土。我们将具有高蒸发冷却能力的赤陶土制成的百叶窗样品和普通的铝制百叶窗样品分别安装，朝向与实际建筑设计方案中的朝向相同，然后定期记录其表面温度、环境温度、蒸发量、周围区域的温度和湿度以及风速等。我们发现，潮湿的赤陶土百叶窗的温度比铝制百叶窗要低5~6℃，证明赤陶土具有良好的冷却功能。

赤陶土因吸水率高，往往会长出霉菌和苔藓。对这一问题的解决办法是在赤陶土百叶窗上采用光触媒（氧化钛； TiO_2 ）涂层，并且将百叶窗安装在通风良好的地方，留出充足的间隔空间。高吸水率还可能在冬天造成冰塞，对这一问题的解决办法是把百叶窗做成带有一定厚度的对称形状，这有助于分散因水结冰而产生的扩张和收缩压力。



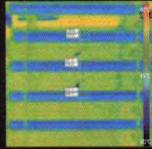






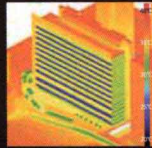
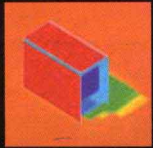
Heat island:
Temperatures in Tokyo increased by 3°C
in the past 100 years.

The average global temperature increased by 0.7°C in the past 100 years, and the major cause is global warming. On the other hand, the annual average temperature in Tokyo increased by 3.0°C, and the annual average temperature in small and medium-size cities increased by 1°C. The difference is attributed to the heat island phenomenon. As a result, the heat island induces heavy downpours, and the number of persons hospitalized due to heat stroke is increasing dramatically.



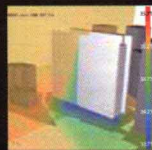
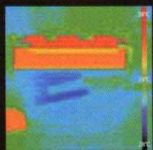
Mockup experiment:
Decrease in surface temperature is verified
with the actual product.

A mockup experiment was conducted in the summer of 2008. To ensure an environment as close as possible to the actual installation condition, the system was arranged to face the northeast side of the building, shield the other sides with solar insulation, and ensure adequate air flow and ventilation. The surface temperature and atmospheric data on the external environment were measured, and the loss of water in the water-retentive ceramic pipe was measured on a regular basis to calculate the amount of evaporation.



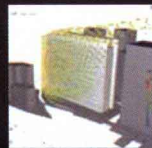
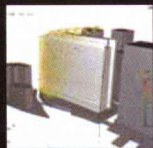
Experiment ⇔ Simulation:
Forecast of effects at actual building

The experiment stated above was reproduced in a simulation. The correlation between the surface temperature data acquired through experiments and the atmospheric data were also reproduced. Furthermore, the entire building for the project was re-created including the surrounding environment. As a result, the simulation proved that the surface temperature of the water-retentive ceramic pipe was lowered by up to 10°C.

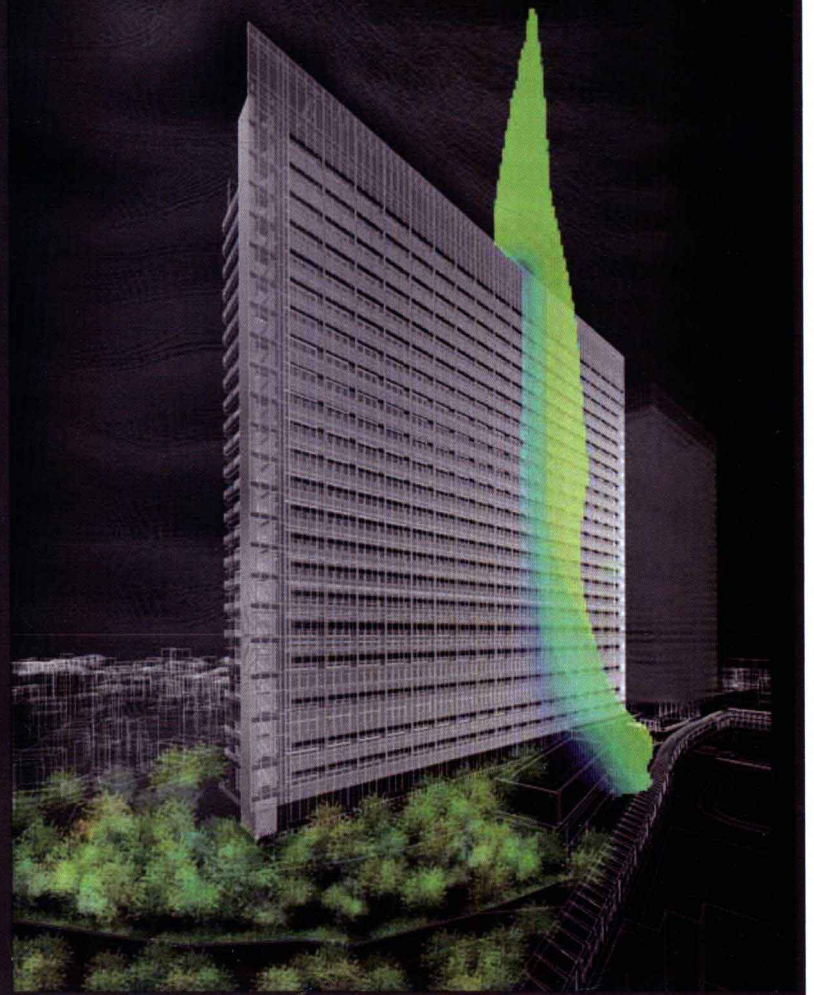


Airflow analysis of the surrounding environment:
The surrounding air temperature decreased by 2°C

The airflow analysis based on the calculation of the surface temperature revealed that the temperature of the surrounding air decreased by up to 2°C. Furthermore, calculation of MRT (mean radiant temperature) in the pedestrian route verified that comfort improved from the cold radiation from the cooled exterior wall surface.



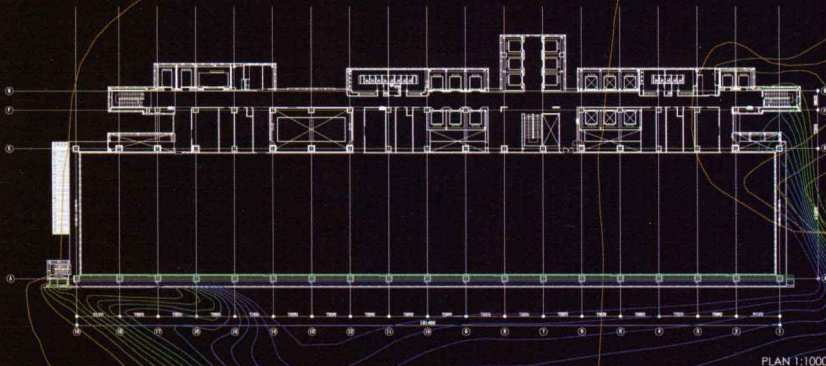
NIKKEN SEKKEI



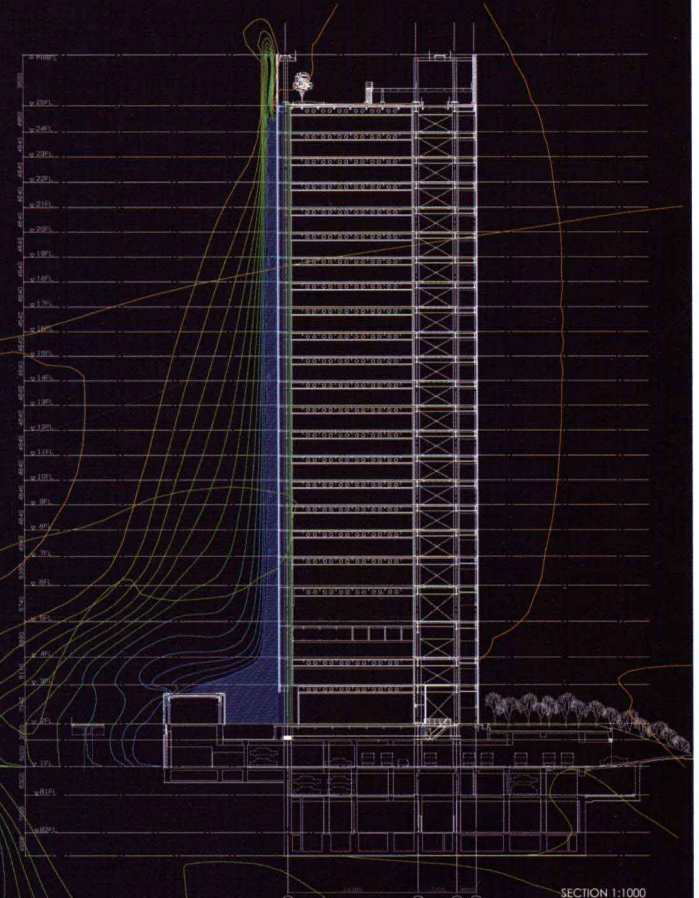
Façade filled with BIO SKIN decreases the surrounding temperature by 2°C



SITE PLAN 1:5000



PLAN 1:1000



SECTION 1:1000

For Sony's new office building, BIOSKIN is applied to the entire east side of the building. By cooling the prevailing winds from the south that strike the side of the building facing east, the temperature of the surrounding air can be reduced by 2°C, thereby reducing the air-conditioning cooling load and creating a comfortable exterior environment.

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