



# 绚烂缤纷的空间 幼儿园·小学建筑

ARCHITECTURE OF KINDERGARTEN  
AND PRIMARY SCHOOL

# WONDERLAND FOR CHILDREN

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# WONDERLAND

绚烂缤纷的空间：幼儿园·小学建筑

- 6 **Kl(ndergarten) T(ernitz)** 泰尔尼茨幼儿园
- 14 **La Bulle Enchantée-Nursery in Sarreguemines** 萨尔格米讷幼儿园
- 20 **Remez-Arlozorov Community Campus** 雷米兹社区校园
- 25 **Nursery in Paris** 位于巴黎的幼儿园
- 28 **Kindergarden** 花园幼儿园
- 34 **Family Creche in Drulingen** 阿尔萨斯的家庭式幼儿园
- 40 **New Kindergarden in Vignola** 维尼奥拉新建幼儿园
- 46 **The New Center for Childhood in Ozzano dell'Emilia** 奥扎诺新建儿童中心
- 52 **Kindergarden in Velez-Rubio** 瓦莱斯·卢比奥幼儿园
- 60 **Kindergarten Parque Goya** 巴赫克戈雅幼儿园
- 66 **Kindergarten in Rosales del Canal** 罗萨莱斯幼儿园
- 70 **Kindergarten in El Serrallo** 埃尔萨拉罗幼儿园
- 74 **Kindergarten in La Chana** 拉加纳幼儿园
- 78 **Porvenir Kindergarten** 波韦尼尔幼儿园
- 86 **Timayui Kindergarten** 泰马尤伊幼儿园
- 92 **Kindergarten Neufeld an der Leitha** 诺伊菲尔德幼儿园
- 96 **Nursery and Primary School in Las Lomas** 拉斯洛马斯的幼儿园和小学
- 102 **Fagerborg Kindergarten** 法格博格幼儿园
- 112 **Paletten - The Design Kindergarten** 调色板——幼儿园设计
- 118 **Lucinahaven Toulou Childcare** 图卢夫幼儿园
- 124 **The Lucie Aubrac Primary School and Kindergarten** 卢西奥贝克小学和幼儿园
- 133 **Nursery School of the New Complex in Costa Volpino** 哥斯达弗尔皮诺幼儿园
- 138 **Epinay** 埃皮奈幼儿园
- 144 **Segrt Hlapic Kindergarten** 塞斯维特幼儿园
- 150 **Nursery School in Pamplona** 潘普洛纳幼儿园
- 155 **La Cabanya Nursery** 卡巴亚幼儿园
- 161 **Nuno Nono Nursery** 努诺·诺诺幼儿园
- 166 **Kekec Kindergarten** 盖凯克幼儿园

# FOR CHILDREN

ARCHITECTURE OF KINDERGARTEN AND PRIMARY SCHOOL

- 172 **A Small School in the Grand Paris** 大巴黎的小学校
- 177 **Elementary School** 色彩明艳的小学
- 182 **Claude Watson School for the Arts** 克劳德·沃森艺术学校
- 188 **Renovation and Extension of the German School of Lisbon** 里斯本德语学校的改建
- 192 **MOPY Elementary School** 陌陂小学
- 196 **Flor de Campo** 卡塔赫纳小学
- 202 **Ordrup School** 奥尔普学校
- 207 **School Center Antas** 安塔斯教育中心
- 212 **Munkegaard School** 穆克嘉德学校
- 218 **Nicolai Cultural Center** 尼克莱教育文化中心
- 222 **School Center Paredes - Alenquer** 帕雷德斯·阿伦克尔学校
- 228 **Primary School in Castelldefels** 卡斯特拉德佛斯小学
- 231 **Mouriz School Center** 莫里兹学校
- 238 **Gandra School Center** 甘达学校
- 244 **Vilela School Center** 魏莱拉学校
- 249 **Rebordosa School Center** 雷波多萨学校
- 256 **Annexa-Joan Puigbert Primary School** 普奇伯特小学
- 262 **Kannisto School** 坎尼斯托学校
- 268 **Elementary School in Schmittgen** 施米顿小学
- 273 **Elisabeth School** 伊丽莎白学校
- 278 **International School of the Sacred Heart** 圣心女子学校国际部
- 284 **The School of Bakkegaarden** 贝克嘉德学校
- 290 **SKUB - Søgaardsskolen** 索佳德学校
- 296 **Educational Center in El Chaparral** 埃尔·查帕拉尔教育中心
- 301 **Valsassina School** 瓦尔萨斯纳学校
- 310 **PPS-Ponzano Primary School** 威尼托区小学
- 317 **South Norwood Hill Children's Centre @ Cypress School** 南诺伍德山区的萨普莱斯小学



PPS-Ponzano  
Primary  
School

威尼托区小学

Design Company / 设计事务所 : C+S ASSOCIATI

Project Architect / 建筑设计师 : Carlo Cappai, Maria Alessandra Segantini

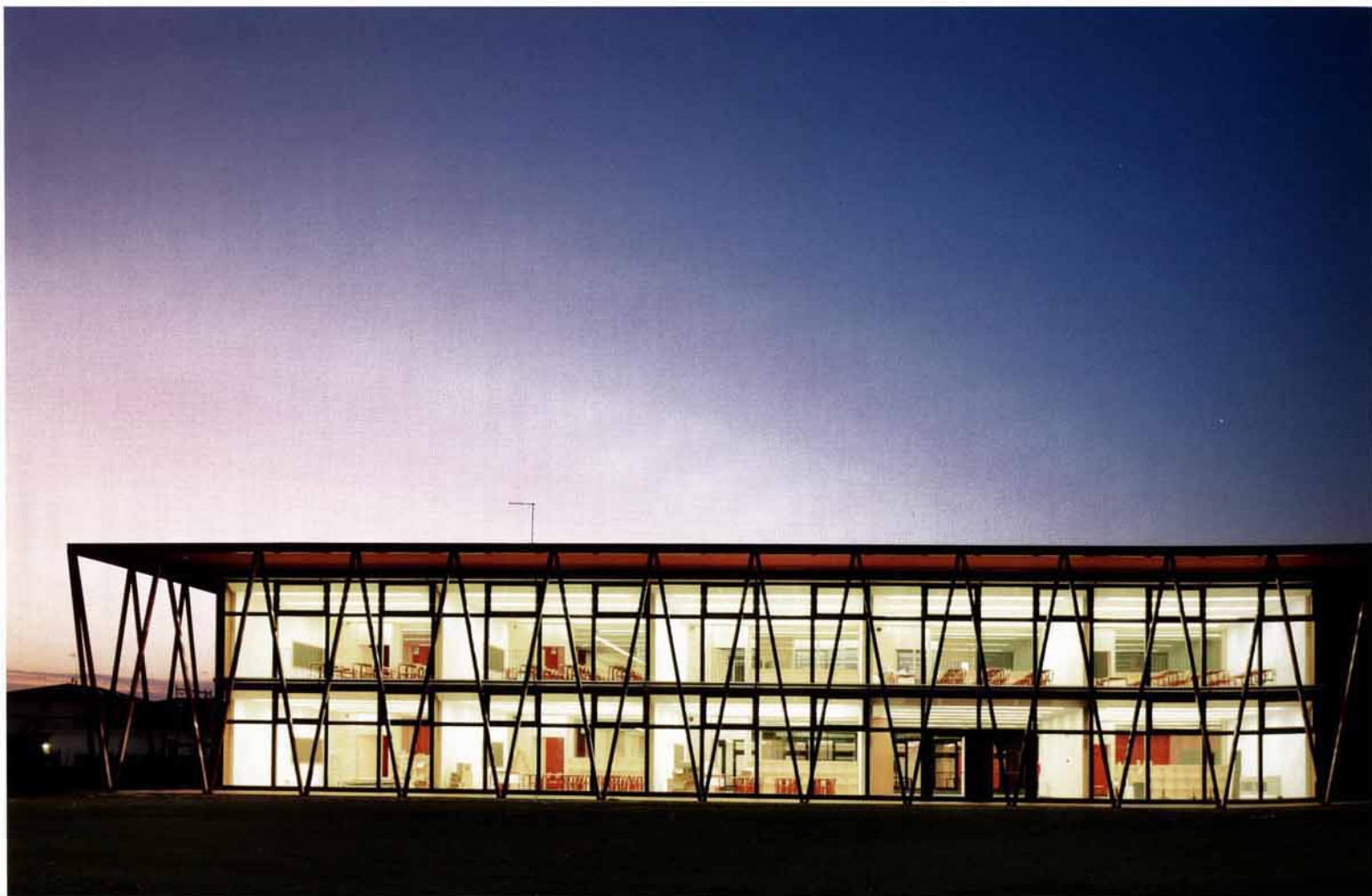
Location / 地点 : Italy

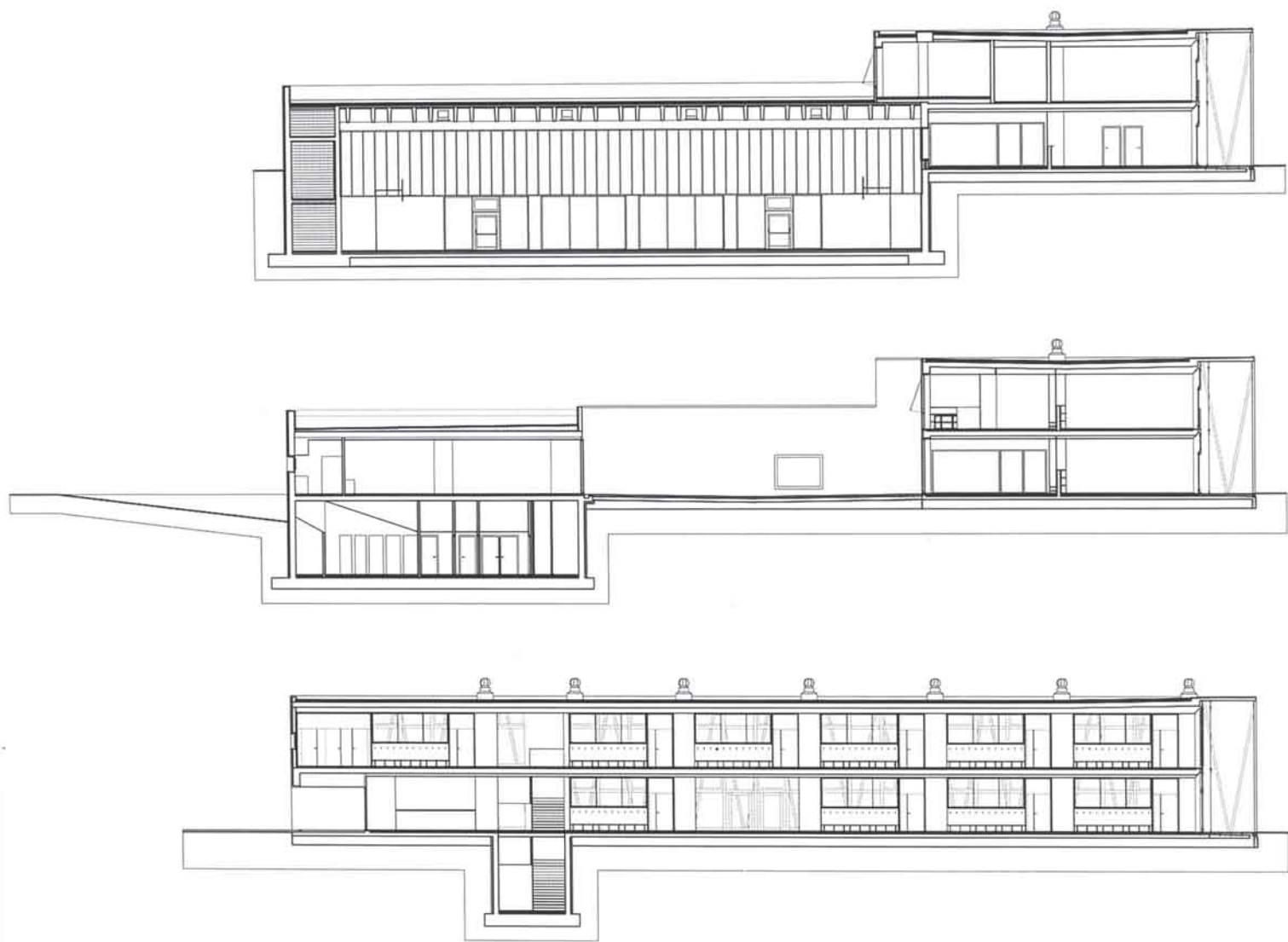
Area / 面积 : floor 4,102 m<sup>2</sup>

Photography / 摄影 : Alessandra Bello, Pietro Savorelli

Ponzano Primary School is designed for 375 children aged from 6 to 10. It has 15 classrooms and special classrooms for art, music, computer, language and science, a gymnasium, a canteen and a library.

Inside the sprawl of the Veneto Region, where Ponzano is settled, this Primary School constitutes a new node, a meeting place for the whole community. Part of the building (the gymnasium and some of the classrooms) is in fact accessible by everybody in the after-school hours.





The school becomes a 'society building' where collective spaces are very important. Firstly, in the general outline: all spaces are gathered around a central square, memory of the monastic cloisters (in the common memory they are the places of past knowledge preservation). Then, also in the design of the building's section: all the spaces face each other and are reflected by the transparent and coloured walls.

Another design topic is that of intervisibility. We are convinced that children can learn very well copying one from the other (this is the reason why the classrooms' walls are glazed and can easily become windows exposing the children's works).

The classrooms where the children spend most of their time face south-east and south-west so as to improve their daylight exposure. Thanks to a judicious orientation, a thick insulation, a green roof and sophisticated technologies (geothermal heating, photovoltaic panels, natural ventilation chimneys, BMS: building automation system) the school consumes only  $3.6 \text{ kWh/m}^2/\text{year}$ , reaching the Italian Class A+ efficiency rating with a building cost of only  $960 \text{ euro/m}^2$  including furniture: a proof that the very strong economic and functional requirements of an educational building are compatible with energy efficiency and high quality interior spaces.

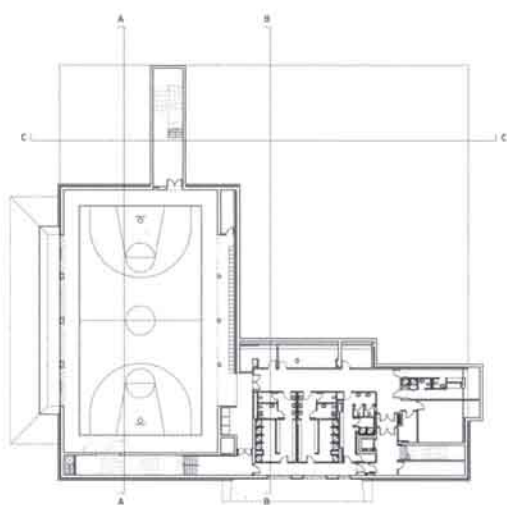
该小学是专门为 375 名 6~10 岁的孩子们设计的。它拥有 15 间教室、专用教室（专门针对艺术、音乐、计算机、语言、科学等学科）、1 处健身房、1 座餐厅和 1 处图书馆。

该小学位于意大利的威尼托区，这座小学还扮演着一项新的社会角色，即整个社区的聚会地点。事实上，孩子们放学之后，人们可以自由出入建筑的部分空间（健身房和一些教室）。

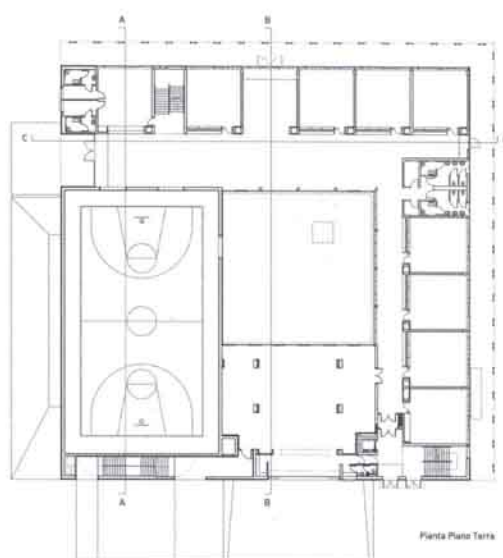
这样，该学校就成为一处“社会建筑”。在这里，公共空间的设置就显得非常重要。首先，从建筑轮廓上看，所有空间都围绕中央的广场展开设计，这种布局会使人们联想到修道院（在人们的共同记忆中，这里是传播知识的地方）。其次，从建筑各个部分的设计来看，所有的空间都彼此相对，整体形象在光的照射下投影在通透的彩色墙壁上。该项目设计有一个独特之处，即通透性。孩子们在相互的督促、监督之下，在这里收获了不错的学习成果（这也是学校的墙壁都用玻璃装饰的原因，还可以将玻璃墙设计成窗户，这更加体现了建筑的通透效果）。

孩子们大多数的时间都在教室里度过，教室均朝向东南方或者西南方，这样使得教室空间在一天中尽可能多地暴露在自然光下。合理的朝向、超厚的隔热层、绿色的屋顶和精良的建造工艺（地热供暖、太阳能光伏板、自然通风烟囱和建筑自动化系统）使得该学校每年能耗仅为  $3.6 \text{ kW} \cdot \text{h/m}^2$ ，达到了意大利 A 级能耗标准。这也证明教育建筑可以在满足经济和功能方面需求的同时，降低能耗，并提升室内空间的质量。





Pianta Piano Intercato



Pianta Piano Terra

