

SOUTHEAST ASIA

# building

INCORPORATING ARCHITECTURE, INTERIOR DESIGN AND LANDSCAPING

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## Glass *in* Architecture

*featuring*

- The Use of Glass in Protection & Restoration of Historical Buildings
- Freeform Glass Roofs
- The Use of Bent Glass in Modern Architecture
- Pola Museum of Art-2003 DuPont Benedictus Award Winner
- Product Showcase
- Preview of GlassTech Asia 2003

### Also in this issue:

- 2003 SIA-ICI Colour Awards
- Latest playground equipment

### PLUS:

**Products and solutions for roofing, exterior cladding & curtain walling, exterior & interior coatings, architectural software and more!**

### Preview

- Build.AsiaPac 2003
- The Big 5 Show 2003
- Building Shanghai 2003

## STANDING SEAM BEMO ROOF ASIA



Bemo Systems, established more than 20 years ago in Europe, have gained ground rapidly in Asia as specialists of premium roofing systems. Bemo's edge lies in its commitment to research and development to improve its existing systems as well as innovate to influence the designs of the future.

Bemo Roof Asia was set up 3 years ago to focus on the recovering Asian construction market. With its presence, architects and contractors now have more options when it comes to selecting proven standing seam roofing systems. The ability to produce the same standing seam system in multiple materials allows the same benefit of long continuous panels to be enjoyed in projects of differing budgets.

Aluminium, titanium-zinc, copper, stainless steel and steel are just some of the materials that Bemo can work on. In addition, the ability to curve the panels concave or convex allows architects free

expression of their ideal design when they work with Bemo Systems.

To date, Bemo Systems have been spotted on the rooftops of various buildings from stadiums to camps, educational institutions to private residential homes, airports to coastal structures.

With the emphasis on environmental awareness, materials such as aluminium will become increasingly popular. Not only is aluminium fully recyclable, its ability to resist corrosion returns value to the owner. Taken together with the Bemo Standing Seam System, it provides a water-tight, weather-proof solution that can last years and years without replacement.

Through their active marketing and strong technical support, Bemo has been able to convince architects and developers to accept Bemo Roof in their design specifications. These designs come from both private and public sector buildings. In time to come, we should be able to see more of Bemo Roof around the places we visit.

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## ROOFING SHEETS PRIME STRUCTURES ENGINEERING

Made by Ondulit Italiana s.p.a. and distributed in Singapore by Prime Structures Engineering, the Ondulit roofing sheet has a multilayer protection system that ensures durability, thermal and acoustic comfort, adequate mechanical resistance with reduced thermal expansion, and weathering and exceptional resistance in marine and industrial environments.

The Ondulit multilayer coating technology of steel is based on the protective effect known as "duplex" in which durability is increased by protection of the individual layers, and integration of these layers to form a compact material with enhanced strength and efficacy. In particular, the galvanised steel sheet ensures infrangibility and mechanical resistance and grants reduced thermal expansion, the 1,700 microns thick anticorrosive protective layers protect the steel from oxidation, eliminate noise during rain or hail, and provide thermal inertia, and the outer metal foils wrap the thick anticorrosive layers preserving their

plasticity, and reflect thermal radiations. *Thermal comfort:* The reflecting power of natural aluminium upper finishing with the thermal inertia of the thick protective layers limits cladding overheating while the lower natural aluminium foil emits only 5% of the small amount of heat absorbed, rendering additional insulation unnecessary. *Acoustic comfort:* The system's thick anti-noise protection layer on the external side of the sheets prevents vibrations and noise caused by rain or hail. *Mechanical resistance and thermal expansion:* In Ondulit cladding systems, mechanical and thermal expansion characteristics are the same as those of steel constituting the sheets' internal core, ensuring infrangibility, lack of breakage and excellent mechanical resistance. Coupled with a low thermal expansion coefficient, the systems are unusually tough.



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## ROOFING TERRACES BUZON



Before Claude Buzon came along, screwjack pedestals usually needed waterproof membranes wedged under their bases to keep their heads level. But Buzon changed that with his PH5 slope corrector which allows for the adjustment of the head's slope. Distributed by BPI SA Asia in Asia, Buzon screwjack pedestals, with their round bases and cylinder-type heads with integrated slope correctors

(0%-5%), enable the building of level terraces on roofs with significant slopes, and are ideal for the construction of elevated technical and temporary floors, accessible and roof terraces with slabs of various sizes, or terraces made of wooden boards.

Now Buzon has launched an advanced version of the Buzon screwjack pedestal, the DPH System. DPH screwjack pedestal heads and bases are interdependent thanks to special safety clips that prevent the various parts from unwinding during adjustment. The support is fitted with reinforcement bars and perforations for securing

onto a concrete or wooden base. And where before, the screwjack pedestals' heads were each fitted with four fins used as slab separators, now with the DPH System, the heads each have a recess in which the plate can be fitted with the desired fins interchangeably. With this, when spacer tabs with a specific thickness or a determined angle (eg. circular terraces with trapezoid slabs) are required, there is no need to make new screwjack pedestals each time with an adapted mould.

Buzon products stand out because of the large diameter of the coupler (105mm), the thickness of the material (5mm), the head with its bearing surface of 190cm<sup>2</sup> and its base of 320cm<sup>2</sup>. The jacks are anti-rot, weather-resistant, age-resistant, and capable of supporting very heavy weights. Their strength is proven with in-depth testing on compression and vertical and horizontal traction forces, as they are often anchored mechanically in countries such as Japan. An auto-extinguishable version is now also available, as is an elegant-looking version made of transparent polycarbonate.

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