

Berry Recreation Hall South Coast New South Wales Allen Jack + Cottier Architects





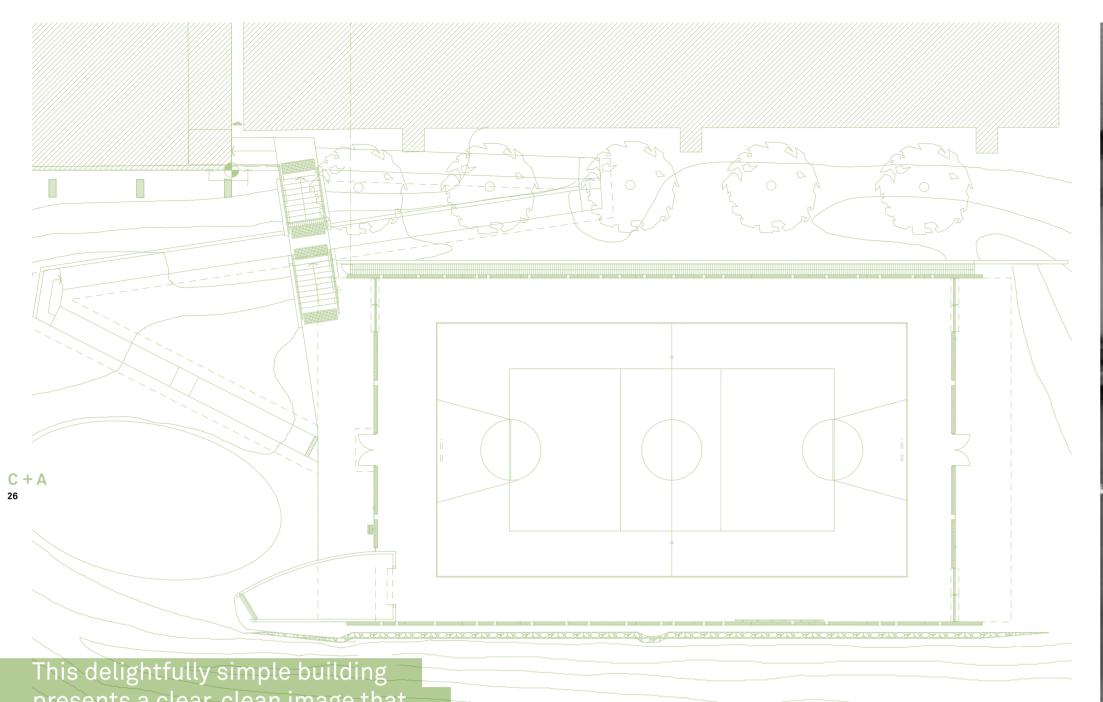
This building, a straightforward recreation hall for the NSW Department of Sport and Recreation at Berry, a pretty valley town around two hours' drive south of Sydney, is one of those finds. And it is a delight. It shows how the power of simple ideas well resolved can lift even the most ordinary of structures to degrees of eloquence. It demonstrates, too, the importance of the role of the architect prepared to use invention to make decent architecture on modest budgets (here, just \$1.3 million).

The hall is an additional facility at the Berry Sports and Recreation Centre, set on 60 hectares of lush, rolling country on the edge of the town. The centre is used predominantly by school children on camps and holiday programs, as well community organizations and sports groups. The property dates back to the mid-1800s. It was worked, variously, as a stud dairy and experimental farm until the 1930s. From that time to the mid-seventies it was used as a training farm for male wards of the state. A collection of brick institutional buildings from the 1930s are scattered about the site, set amidst established gardens and mature trees.

The hall provides flexible indoor facilities for basketball, netball, rock climbing, dance, film, theatre and more besides. It replaces a part-enclosed and inadequate steel and corrugated iron farm shed used for the same purposes for many years, and which is due for demolition.

The building's architects, Allen Jack + Cottier, were asked to design a robust multipurpose building for kids to have fun in. And their response, I'm happy to report, is an inspired one, producing a joyful and light filled space in which kids can revel. Cut into a small hill to reduce visual bulk from neighbouring properties, the hall is remarkable for its two long sides of precast concrete panels, twenty two in all, each panel pierced through by an array of irregularly shaped amoeba-like holes; while the short ends of the box are filled with panels of concrete separated by clear glass slots rising to the full height of the building.

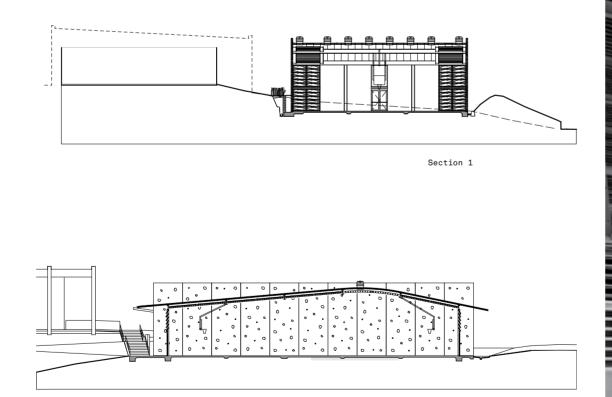
"The direction we took grew from an integrated and exhaustive environmental modeling, materials research and structural analysis," says Michael Heenan, the hall's principal architect. "In the end, it all came down to a simple study in the capture and escape of light." The holes in the precast panels – dubbed 'starlights' early in design process - range in size from tiny spy holes to larger openings, each encased inside double glazed plastic inserts in colours of red, white and black. Shafts of light passing through them flood the interior, the light varying in intensity and colour with the movement of the sun throughout the day; while from inside, as you move about the hall, there are countless vignettes of the landscape outside and of the surrounding green farmland to be enjoyed.



presents a clear, clean image that demonstrates the rigour of its thinking and its craft

The panels were prefabricated offsite, the holes located in a carefully studied pattern. Full-scale test panels with various light shaft patterns were made before an acceptable final configuration was reached. Each panel was later flip-flopped on site during construction to create a random scatter. "We thought that by perforating the concrete walls we could breakdown the perception of weight, giving the building a playful edge and new found lightness and life," Heenan says.

The result is a beauty: a near-transparent structure that seems imperceptibly light despite the weight of the concrete. It irresistibly invites the casual visitor to walk up and take a peek through the holes. But the wonder of the hall's 'starlit' sides come into best play on clear, cloudless nights when, lit from within, the building seems to all but disappear as it melds seamlessly with the starry night sky. There are other things here, too, that make this little building special. The roof is composed of 200mm deep composite panels of polystyrene sandwiched between layers of corrugated iron, forming roof and ceiling at the same time. The hall is also a clear span space, made possible by the introduction of a 38 metre lightweight vierendeel steel truss designed to eliminate the need for structural columns. The steel truss assisted in eliminating all bending movement and fixed joints in the concrete; which enabled the architects to adopt an elegantly thin concrete skin for the struc The large concrete panels on the end elevations are used to transfer all wind loads via the horizontal roof truss to the ground. A row of thermal chimneys and a bank of electronically controlled blades assist in drawing warm air out of the building. Water from the large roof is harvested for landscape irrigation. The hall stands alongside an earlier Allen Jack + Cottier building – a seminar centre and reception hall – with a march of concrete columns at back and front. The hall collected two major awards from the Australian Institute of Architects (NSW) in 2008: a Public Architecture Award and the Blacket Award for Best Regional Architecture, the jury stating, in part: "This delightfully simple building presents a clear, clean image that demonstrates the rigour of its thinking and its craft." The simplicity of the idea is at the heart of this architecture. The risk for its designers was in doing and getting it right. It could so easily have been a barn.**JR** 



Section 2

Floor plan

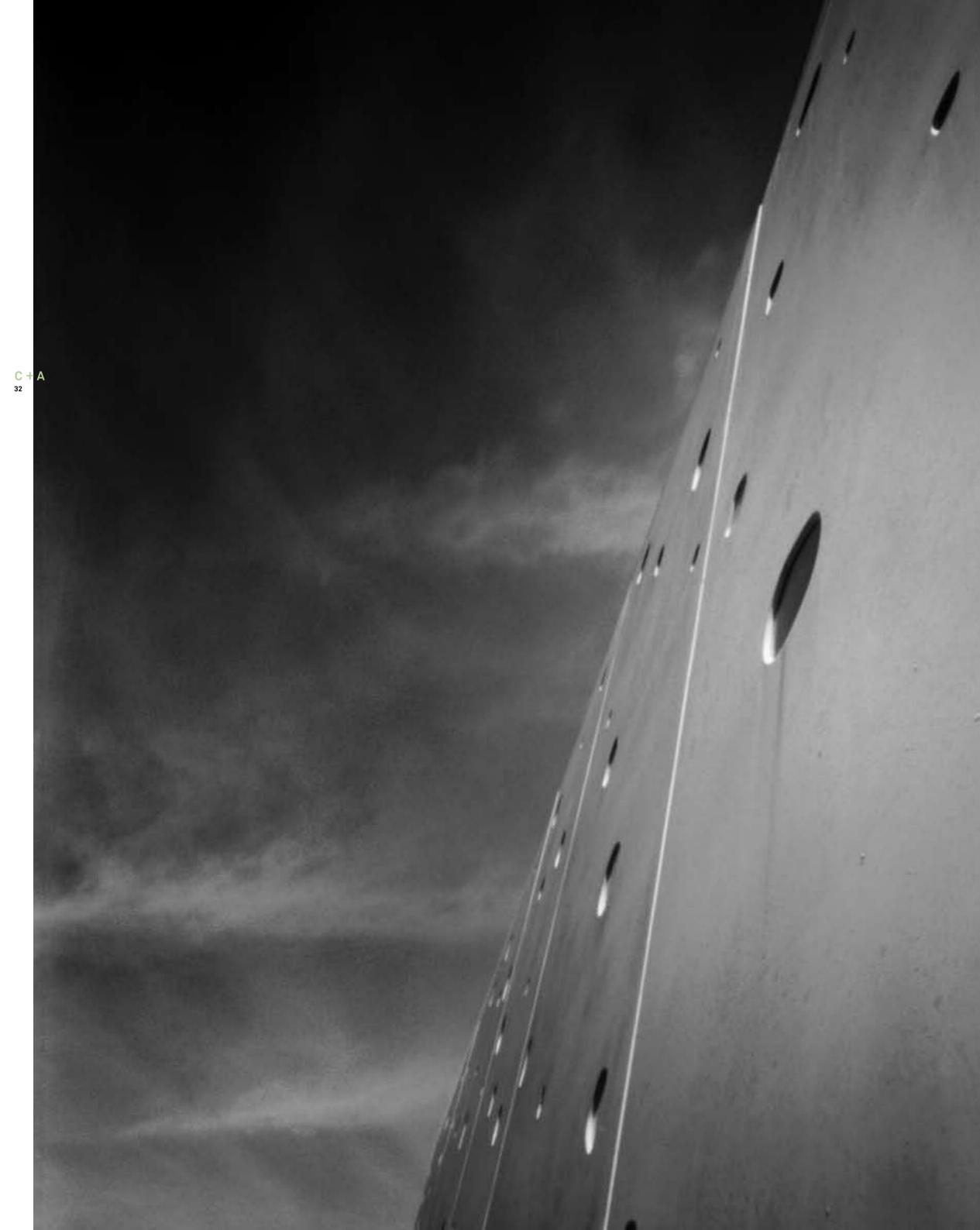


The wonder of the 'starlit' sides of the hall come into play on clear, cloudless nights when, lit from within, the buildings seems to all but disappear as it melds seamlessly with the starry night sky.

- U







issue 11 Berry Recreation Hall

Project Berry Recreational Hall Location Berry, New South Wales Architect Allen Jack + Cottier Architects Project Team Michael Heenan, John Whittingham, Kristina Neveriova, Kj Phua Structural Engineer Appleyard Forrest Consulting Mechanical Engineer Umow Lai Enginuity Electrical Umow Lai Enginuity Hydraulic J & M Group Landscape Mather & Associates Builder BATMAC Constructions Pty Limited Photographers Anthony Browell, Nic Bailey

12