

Insurer hails steel roofing

A sea of blue. Tarpaulins cover shattered tile roofs after the savage hail storm that struck Sydney in 1999 causing damage in the millions.



A major insurance company has declared that steel roofs offer better protection in hailstorms than concrete, slate and terracotta tiles, after carrying out its own testing with a specially developed hail gun.

NRMA Insurance designed and built a hail gun to fire man-made hailstones at corrugated steel sheets, and concrete, slate and terracotta tiles, to determine which roof materials are more likely to hold up against hail.

"Our preliminary research has found that corrugated steel performs best overall, holding up against hailstones up to 10cm in diameter," said Robert McDonald, NRMA Insurance Head of Industry Research.

"While the steel sheets can be dented by smaller hailstones, they're not penetrated as easily as tiles so they're less likely to allow water into the house."

Cam Seccombe, head of BlueScope Lysaght's

internationally renowned Research and Development division, Lysaght Technology, says the brittle nature of roof tiles means that they are less likely to stand up to hail attack.

"Essentially concrete and terracotta tiles are brittle elements, and that brittleness increases with age," he says. "Steel is not a brittle material, it's ductile. It becomes more ductile once it's been rollformed, and thus able to handle high impact loads."

"Rolling shapes into the steel, such as the corrugations in LYSAGHT CUSTOM ORB®, imparts ductility," he explains. "The shapes buckle and bend under impact, which means the roof actually absorbs energy, making it more resilient. Tiles and slate do not have this quality."

This has been well proven at BlueScope Lysaght's NATA approved testing facilities in Chester Hill, says Cam. "We've fired a range of missiles – such as large hailstones – at LYSAGHT®

roofing and walling products made from COLORBOND® steel. These products are very difficult, if not impossible, to break under hailstorm conditions. The steel may get dented, but it doesn't break."

The NRMA said the release of the initial results of the hail gun project is aimed at educating the community on what roof materials perform better in a hailstorm, particularly for people designing and building a new home.

The insurer said it chose roofing materials for the initial research because of their common use in the community. The tests were conducted at 90 degrees to replicate a worst case scenario. The speeds varied from 100 km/h to 160 km/h.

"Roofing replacement costs vary depending on the material selected and the style, height and pitch of the roof. But if water gets into the roof, creating internal damage and destroying contents, repair and replacement costs can increase substantially," Mr McDonald added.

Three new plants for india

BlueScope Steel will invest A\$100m to construct three new manufacturing facilities in India, at Pune, Chennai and New Delhi.

The new facilities, which will be wholly owned by BlueScope Steel, will deliver a world class range of LYSAGHT® and BUTLER™ quality branded products to customers in the growing Indian building and construction industry.

These products will be manufactured from BlueScope Steel's premium ZINCALUME® and COLORBOND® coated steels which have been marketed in India since 1998.

The facility in Pune serving the burgeoning Western region is expected to be commissioned in 18-24 months time. It will incorporate a BUTLER™ manufacturing facility for PEBs (pre-Engineered Buildings) and a Design Centre which will engineer and design creative, cost-effective and aesthetically pleasing buildings for the growing Indian market.

The Chennai and New Delhi rollforming facilities, offering a full range of LYSAGHT® products, will serve India's growth territories in the South and North respectively.

BlueScope Steel will establish a network of 18 new sales offices at locations around India, with sales planned to commence in 2006.

BlueScope Steel CEO and Managing Director Kirby Adams said: "We are encouraged by the opportunities available in India.

"BlueScope Steel has a proven track record over 40 years in successfully building market demand for quality steel building products in developing Asian markets.

"Our Company's products, brands and service offer are very well established in countries as diverse as Thailand, Indonesia, Malaysia, China, Vietnam, Singapore and Vanuatu, and we have operated a LYSAGHT® rollforming business in Sri Lanka since 1994.

"India, therefore, represents BlueScope Steel's logical next frontier."

Mr Adams continued: "BlueScope Steel's strong focus will be on developing new markets and new applications for coated steels in the Indian construction market.

"We are looking to apply the 'reverse integration' approach that our Company has successfully deployed elsewhere in Asia, whereby initial investments in rollforming capacity lead to further investment in a steel coating and painting operation once demand for our products is well-established.

"To this end, BlueScope Steel is also currently engaged in a feasibility study with Tata Steel - one of Asia's leading steel companies - exploring the possibility of forming a 50/50 joint venture to develop a metal coating and paint line facility in India. The study is expected to be concluded by May 2005."

BlueScope Steel currently operates 75 manufacturing plants across 16 countries, including 12 countries in Asia and the Pacific.

Setting the standard

A unique collaboration involving the Lysaght Technology Centre, Sydney University and BlueScope Lysaght China has produced a groundbreaking code for portal frame construction.

BlueScope Lysaght has played a growing role in China's construction industry in recent years, through its supply of purlins, girts, claddings, structural decking and pre-engineered building solutions.

The introduction and expanding use of lightweight steel structures prompted Chinese officials to search overseas for an existing appropriate building code which they could modify to suit Chinese conditions.

Initial discussions between BlueScope Steel China Vice-President Paul Jones and Xian University of Architecture & Technology University's Professor He Baokang led to contact with Lysaght Technology Centre manager Cam Seccombe in Sydney.

Cam in turn contacted Professor Greg Hancock, dean of the faculty of engineering at Sydney University to seek that institution's assistance.

It soon became obvious that no specific standard existed anywhere in the world that covered China's emerging needs.

Rising to the challenge Lysaght Technology Centre chief researcher Alex Filonov met in China with a board of experts led by Prof. He Baokang to work out local requirements and to plan the combination of available Chinese construction

standards with Australian Standards and design practice for cold formed portal frames.

Alex Filonov then incorporated standard Australian elements such as thin wall sections and high tensile steel properties as he prepared a draft document for evaluation by Professor Hancock.

Extensive analysis has been done by Sydney University to assess compliance of available Chinese design procedures to the latest research data and Australian Standards.

Little more than a month after starting from a blank sheet of paper the team produced the first draft of a document which combined these Chinese elements with design principles embodied in the Australian Standard for cold formed structures and design and construction practice.

Three months later, after discussions involving all parties, China now has a world's best-practice chapter on portal frame construction to add to its growing body of strict construction standards.

"The outcome has been a great achievement for all concerned," Lysaght Technology Centre manager Cam Seccombe commented.

"It illustrates the regard in which BlueScope Lysaght is held for the expertise it has built up over many decades.

"As a direct result of this project's success we are now working on a project to produce a standard for residential steel house framing for China."



Lysaght Technology Centre's links with the Chinese construction industry extend beyond the portal frame activity. Here Centre manager Cam Seccombe hosts Dr Lu Xiaoquan, Construction Manager of the Beijing Olympic Organising Committee (BOCOG), right, accompanied by Mr Huang Yong, from Austrade's Beijing office during a recent visit.

HYDRORIB® proves its worth



BlueScope Steel's Manager Technology & Product Development-Emerging Business Neil Wallace inspected the installation of the HYDRORIB® pipe system at Illawarra Regional Airport.

Shellharbour City Council in New South Wales' Illawarra region has trialled a unique new stormwater pipe system from BlueScope Water as part of a major infrastructure works program.

BlueScope Water's innovative new HYDRORIB® stormwater product is a key element of redevelopment work on the Illawarra Regional Airport.

Located 100 kilometres south of Sydney, central to the Wollongong, Kiama and Shellharbour regions, the Illawarra Regional Airport services a population of 280,000. Its expansion will provide substantial economic benefits to one of the fastest growing areas in New South Wales.

Initial infrastructure work on the aviation business cluster subdivision including a new drainage system, new water mains, new underground power, sewer extensions, and road access are well under way. New hangars will be completed by April 2005.

"HYDRORIB® proved lightweight and easy to handle," Bob Burness, Design Manager at Shellharbour City Council, said. "It gave us a particular advantage where we had to install the HYDRORIB® pipes under a power main. The main wasn't in the location we thought it was – it was a lot lower, and there were a lot of other congested services at that location, which made access very difficult."

"Being able to use the lightweight HYDRORIB® pipes gave us a huge advantage because we were able to manually move them into position," he added. "Concrete pipes were considered as an

option, but due to the restricted access, having to lift concrete pipes in by machine would have been difficult. HYDRORIB® was definitely the better solution."

The stormwater system has been designed to handle water flows varying from 55 litres per second, to 700 litres per second. Around 500 metres of HYDRORIB® was used on the project, in sizes of 300mm, 450mm, 525mm, 600mm and 675mm.

HYDRORIB®'s long lengths offered another critical advantage to the project, allowing workers to lay HYDRORIB® in six metre lengths, whereas a standard concrete pipe is 2.4 metres long.

The longer pipe lengths meant fewer joints, which made installation a lot quicker. Joints also tend to be a point of weakness in a pipe

system, where water can leak, so fewer joints means less chance of failure.

"The advantages of the HYDRORIB® pipe system over conventional SRC pipe were the lightness and long lengths," Brian Watling, Shellharbour City Council's Leading Hand Concreter/Pipelayer commented.

"Despite unfamiliarity with the new system, it was possible to excavate, lay and backfill 42 metres of 675mm HYDRORIB® in one day, compared with a typical 20 metres of SRC pipe in the same period."

For more information, visit www.bluescopewater.com or contact BlueScope Steel Direct on 1800 800 789.

Spread the *Clean Site* message

BlueScope Steel has joined forces with Keep Australia Beautiful Victoria (KABV) to help launch the Clean Site - Building a Better Environment program in Victoria.

With the construction and demolition of buildings contributing up to 40 per cent of all solid waste disposed in Australian landfills - about eight million tonnes every year - BlueScope Steel sees the Clean Site - Building a Better Environment program as an excellent means of educating builders and consumers in environmentally responsible building practices.

Working with KABV on the program also provides an opportunity for BlueScope Steel to communicate the sustainable qualities of COLORBOND® steel and ZINCALUME® steel in construction amongst key audiences such as builders, tradespeople, specifiers, building surveyors, councils, government and consumers.

Steel's magnetic qualities make it easy to collect and sort for recycling once demolished making it one of the world's most recycled products. It is estimated that approximately 370 million tonnes of steel scrap are recycled each year worldwide; more than paper, aluminium, glass and plastic combined.

Decking solutions cover a

BlueScope Lysaght has raised the bar on performance in Australia's construction industry by offering a suite of structural steel decking solutions that are world leaders.

Building on research carried out by Lysaght Technology and experience gained in several countries, BlueScope Lysaght now offers three

While LYSAGHT W-DEK® offers these significant benefits for concrete-framed buildings, it is ideal for steel-framed structures. Currently, the vast majority of buildings in Australia are concrete-framed, unlike the rest of the world, where steel-framed structures are far more common.

"As labour becomes more expensive, we think that steel-framing will become more popular in

Colour reduces glare

BlueScope Lysaght has continued to enhance its original LYSAGHT BONDEK® structural steel decking at the same time as it has advanced the technology with the introduction of LYSAGHT W-DEK®.

LYSAGHT BONDEK® has been a widely specified problem solver for spanning challenges in the Australian concrete construction industry for many years.

Now Melbourne's first major new office building for eight years has used LYSAGHT BONDEK BLUE® steel formwork from BlueScope Lysaght to make impressive savings in labour, time and cost and advances in occupational health and safety.

The \$65 million 18-storey Exhibition Street building's structural design uses LYSAGHT BONDEK BLUE® steel formwork, a new LYSAGHT product which incorporates what is believed to be a world-first blue anti-glare coating.

The special coating reduces reflected light by a minimum of 80 per cent, to provide greater comfort and safety for installers and follow-up trades on site.

The blue coating is applied only in the pan sections between each rib of LYSAGHT BONDEK BLUE®, to provide a substantial increase of rib definition, and create a safer environment for walking on the deck.

"We produced LYSAGHT BONDEK BLUE® in response to industry concern about glare when working with steel formwork," said BlueScope Lysaght's Senior Design Engineer, Con Papageorgiou.

"What it means is that we are reducing reflected light or glare by about 80 per cent, and reducing



Lysaght Technology's principal researcher, Alex Filonov, checks test rig results for LYSAGHT W-DEK®.

decking systems designed to provide solutions for structural decking challenges.

Lysaght's Australian range of structural decking products consists of LYSAGHT BONDEK®, LYSAGHT W-DEK® and LYSAGHT POWERDEK™.

The new LYSAGHT W-DEK® system represents a major breakthrough in steel building technology for Australia.

Constructed of high-tensile Australian steel, it spans distances up to 40 per cent more than traditional re-entrant systems. Its unique "w" shaped profile has been designed specifically for its spanning capability.

"The wider spans allow fewer props, if used in conjunction with a concrete-framed building," says Brent Poll, Manager of Lysaght Design and Construction.

"At 700mm wide LYSAGHT W-DEK® is also a slightly wider cover than other formwork systems. This saves users a lot of time and money in terms of labour, as there are less sheets to lay, and fewer props to handle."

Concrete displacement is yet another advantage of LYSAGHT W-DEK® over conventional ply formwork. LYSAGHT W-DEK's® trapezoidal shape forms voids when concrete is poured, resulting in excellent concrete displacement.

"With LYSAGHT W-DEK®, you use less concrete," explains Brent. "For example, for a 130mm slab, you actually are only using 90 mm of concrete - that's 30 per cent less concrete. On a big project, this offers substantial savings."

Australia," says Brent Poll. This is because it takes a lot of the risk and safety issues out of erection.

The development of LYSAGHT W-DEK® has been a big investment for BlueScope Lysaght. All around the world, and particularly in Australia, steel-framing technologies are changing. As a result, there was no specific Australian Standard that BlueScope Lysaght could rely on while developing the product.

"Essentially, we've had to reinvent the wheel," says Brent. "We've taken the best parts of Australian Standards, British Standards, European Standards, as well as local research conducted by academics and universities, to give us the most conservative, or low-risk system from a failure point of view."

"We've brought all that information together, to come up with a new design method, specifically for LYSAGHT W-DEK® to be used in a steel-framed building."

Lysaght Technology's principal researcher, Alex Filonov, directed the research to develop the best design methodology for LYSAGHT W-DEK®, improving considerably on overseas counterparts. "It's a completely new design methodology for this type of system," says Brent Poll. "One of the biggest previous downfalls of trapezoidal decking systems was that they didn't bind with the concrete all that well. Alex did a lot of work to achieve a high level of composite strength, so the composite action provided by LYSAGHT W-DEK® is about four times the capacity of similar products overseas."

LYSAGHT W-DEK® will be available nationally.



Bondek Blue® reduces reflected glare on building sites.

It needs

heat. Availability is currently limited to Victoria, but it's almost become an industry standard there."

About 20,000 sqm of LYSAGHT BONDEK BLUE® was used on the Exhibition Street building.

LYSAGHT BONDEK BLUE® is only available in Victoria only.

Long spans solution

LYSAGHT POWERDEK™, the third member of the LYSAGHT® suite of steel deck products gives significantly increased unpropped spans (up to 6.0m) and substantially increased load carrying capacities.

LYSAGHT® technical support engineers, skilled in the specification and optimisation of large project building designs using LYSAGHT POWERDEK™, claim it will revolutionise design with concrete slabs.

Because the profiles are encased in concrete, they have exceptional fire performance, with no extra reinforcement required for up to a 3-hour fire rating. LYSAGHT POWERDEK™ is made from zinc coated (Z450), high tensile steel for strength and durability.

It is precambered to minimise formwork deflection, which provides better appearance for exposed ceilings. A positive interlocking rib provides a strong, secure working platform. LYSAGHT POWERDEK™ steel decking profiles have sufficient shear bond capacity for imposed loads up to 30KPa.

LYSAGHT POWERDEK™ is subject to order limitations. Contact your local Lysaght office for more detail.



On track with XLERPLATE®



Railway bridge pylons made from XLERPLATE® steel.

A Victorian heavy engineering company has celebrated its twenty-fifth anniversary by playing a key role in the state's largest upgrade of regional rail in the last 120 years.

Portland company, Keppel Prince, is fabricating and supplying 600 tonnes of massive steel pylons made from XLERPLATE® steel for two large bridges on the Ballarat corridor of the state's rail network.

Leading construction and transport engineering companies, Thiess Pty Ltd and ALSTOM Australia formed a joint venture to undertake construction works on the Ballarat and Geelong corridors of the Regional Fast Rail Project.

According to Keppel Prince founder and managing director, Steve Garner, the Thiess ALSTOM Joint Venture nominated steel pylons instead of concrete because of the benefits steel offered in terms of erectability and ease of construction.

"Thiess ALSTOM Joint Venture chose steel pylons, rather than concrete, as a part of their risk management program," he explained. "In contrast to concrete, a steel pier can be erected in about two hours, with no formwork, shuttering, or scaffolding. So the use of steel, in this case, is a quicker erection method – it minimised time on site, exposure to bad weather and therefore risk."

"Working with our customer and one of our distributors, Smorgon Steel, BlueScope Steel was able to develop a delivery schedule that allowed the processing and delivery of XLERPLATE® steel into Keppel Prince according to the required fabrication timetable," says Simon Fieldsend, Victorian State Sales Manager at BlueScope Steel.

Keppel Prince manufactured eight pylons for the 275 metre long Moorabool River bridge, ranging from 5.5 metres to 23 metres in height. Ten pylons have been produced for the 355 metre long bridge at Lal Lal Creek, which range from 10.6 metres to 33.6 metres high. The three largest pylons each weigh a massive 77 tonnes.

"We make the pylons in a similar way to making wind towers," says Steve Garner. "They are essentially conically shaped cylinders, with a diameter of 4.2 metres at the bottom, which dwindles to a 1.3 metre diameter at the top. Each pylon was constructed from 250 or 350 grade XLERPLATE® steel. We get the plate, roll it, and weld the sections together. For the Moorabool River Bridge, the pylons were constructed from 20 mm thick plate, and for the Lal Lal Creek Bridge the pylons varied from 25mm to 32 mm thick steel."

According to Mr Garner, a good supplier is critical to the success of Keppel Prince's projects. "When it comes to steel supply, price and availability are the two key areas. Our success on a project is based on this. BlueScope Steel's commitment to this project has been exceptional – they have been very supportive. We have a great relationship with them."

"We always buy Australian steel – we've never tried to source overseas," he continues. "XLERPLATE® from BlueScope Steel is a product we can trust, and we can be sure that it complies with Australian standards, which is often a requirement of our customers. Product from overseas just doesn't compare that well."

Steel framing - "A huge opportunity"

The residential steel framing market represents a largely untapped opportunity for Australia's building industry, where sometimes negative and often incorrect perceptions are holding back a potentially lucrative market.

That is the view of BlueScope Steel's new Steel Framing Market Development Manager, Greg Jones. It is precisely the situation that he is charged with rectifying.

"The steel framing itself is our biggest advantage in developing the market," he says.

"It is obviously great in termite areas and it always stays straight and true. It is durable and strong, and has great spanning capability, which offers better design flexibility."

Builders who have switched to steel framing find that many of their previous perceptions regarding working with the product don't match the reality.

"People are becoming familiar with the product," Greg says. "That familiarity is removing the skepticism and hesitation that may have been there in the past."

Accurately quantifying steel's share of the framing market is difficult, but Greg is confident that the graph is moving in the right direction.

"It is my role to work with our state market development resources to help develop this side of the business and increase market share for our customers and ourselves," he explains.

Greg's new role will see him developing strategic marketing plans for BlueScope Steel's support of the steel framing business, guiding the company's direction.

Just two months into his new role, Greg is evaluating BlueScope's steel framing value chain to identify "hotspots" and barriers.

"It is about devising the processes to develop a strategy that will get it right the first time," Greg says.

"Our customers are looking to BlueScope Steel to help provide them with solutions to the challenges they face. They want re-assurance from us that they are on the right track, and they want us to help them grow their markets," he says.

Greg Jones has been with BlueScope Steel for 15 years. For the last five years he was BlueScope Steel's Market Development Manager for metal roofing in Queensland.

During these five years, BlueScope recorded a strong increase in the metal roofing market share from 36 per cent to 55 per cent in Queensland.

Greg explains these impressive figures as a reflection of the ongoing changes in design trends within the Queensland housing market.



Greg Jones, Steel Framing Market Development Manager, BlueScope Steel (right) discusses steel framing with Ben Trager, Managing Director of Western Australian steel frame fabricator, RTS Group.

He says there were a lot of builders and designers moving up to Queensland from Sydney and Melbourne just over a decade ago. They also took their "southern-inspired" design themes.

These themes moved away from traditional Queensland-style housing and into contemporary Sydney or Melbourne styles.

"Those Sydney or Melbourne-style homes weren't designed for Queensland's harsher conditions," Greg explains. "And they certainly didn't encompass steel roofing."

After the initial influx of these new-style houses, a backlash swung the trend back to a more contemporary version of the traditional "Queenslander" style house. This latest trend brought steel roofing back to the forefront of the market in the Sunshine State.

Greg aims to achieve similarly impressive results in the residential steel framing sector.

"The housing market is a huge opportunity for steel framing. It is an industry in which BlueScope Steel needs to play a much larger part in the support of our customers than we currently do."



Seafood markets now have MEGASPACE™

A major new seafood market building in Thailand has taken shape in record time with the assistance of the MEGASPACE™ clear span building metal technology system.

Work only started on the Talad Talae Thai (Thai Seafood Market) in June, but the 9,600 square metre facility will be ready to welcome its first customers early in 2005.

The 60 metre by 160 metre market building is in Samut Sakorn Province, 45 minutes south west of Bangkok.

BlueScope Steel holds exclusive rights to the use of the MEGASPACE™ building system in Asia with S2 Corporation Pty Ltd (formerly Bigspace Technologies) providing design services.

The technology has been proven in Australia and showcased through its use on projects such as Telstra Stadium - centrepiece of the Sydney 2000 Olympics.

Talad Talae Thai's 60 metre clear span roof was fabricated on the ground by Siam Built Services Co., Ltd and then lifted into place in sections by cranes working in teams (pictured).

The Megaspacer system uses conventional trusses manufactured from circular hollow sections which are stressed with high tensile cables to provide added strength.

Once erected the roof was clad in COLORBOND® steel rollformed in LYSAGHT KLIP-LOK 700® in the colour Jade.

BlueScope Steel can now offer even more competitive building solutions in Asia for projects such as hangars, stadia, supermarkets, conference centres and manufacturing facilities that value column-free buildings.

The MEGASPACE™ clear span technology allows significant reductions in building weights over conventional framework systems.

Steel sheds not so humble

The newly formed Australian Steel Institute (ASI) Steel Shed Group was officially launched at the ASI's 2004 Australian Steel Conference on the Gold Coast recently.

"Steel sheds" is an umbrella term which covers a vital sector of Australia's construction industry. The foundation members of the ASI Steel Shed Group represent an industry with an estimated one thousand active companies and an annual turnover of more than \$600 million.

Foundation members of the group include Ranbuild, Garage World, Totalspan, Tri Steel, Williams River Steel and AG&S Distributors. Members are drawn from companies building steel sheds with spans from six to 36 metres.

The main focus of the ASI Steel Shed Group is to enhance the credibility and long-term sustainability of the steel shed industry.

"The group aims to lift the level of professionalism and to advance the interests of members in an industry which is changing

as it grows," Neil Creek, National Manager for the ASI steel Shed Group said.

"Steel sheds have traditionally been associated with farming activities and basic storage requirements, but our members are detecting what we regard as 'lifestyle' influences which are changing the market.

"People moving permanently from the cities or just establishing a weekender on a few acres out of town have different requirements than the traditional rural resident," Mr Creek said.



Neil Creek, national manager for the ASI Steel Shed Group (right) with the Group's deputy chairperson, Tony McLeod of pre-fabricated building specialist, Williams River Steel.



Bernie Sheedy, Market Development Manager of BlueScope Steel - Vic (right), congratulates Zol Nagy on his award success.

Multiple awards for designer with flair

An innovative designer has won multiple awards at the recent 2004 Building Designers Association Victoria (BDAV) Building Design awards held in Melbourne.

Zol Nagy of Nagy Design won awards for some of his residential projects which frequently feature COLORBOND® steel cladding and roofing.

Nagy Design was a winner in the Best Residential Design in the 300-400 square metre category and in the Best Residential Alterations

& Additions - Up to \$100,000, and was the 2004 BDAV Building design awards winner of the best small budget innovation in building design.

Another Zol Nagy project collected awards for contemporary flair and for the best heritage design.

"COLORBOND® steel can mix with other materials like sandstone and render to offer the aesthetics I want," he said. "It has a lightweight, contemporary look and feel."

Zol Nagy said the innovative and eclectic use

of materials such as COLORBOND® steel helped to bring renovation projects in under budget.

"Using in-vogue lightweight materials such as COLORBOND® steel not only enables budgets to be achieved, but on the evidence of these awards allows that to happen without sacrificing aesthetic values," he said.

**For more information contact:
Zol Nagy Nagy Design 61 3 9560 5454
www.nagydesign.com.au**



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1800 800 789

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www.bluescopesteel.com

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BlueScope Lysaght pioneered a new exhibition concept at the recent West Australian Spring Home Show 2004 in Perth. The innovative Lysaght Street display showed how the LYSAGHT® range of products fits a typical residential streetscape.