LYSAGHT

DESIGN SOLUTIONS FOR

EDUCATION FACILITIES



INSPIRATION TO BUILD BETTER

EXPERIENCE

It makes all the difference.

At Lysaght, we know that good design decisions shape the physical environment and functionality of educational facilities.

From primary schools to higher education, the materials we choose shape the safety, comfort, and sustainability of every learning space.

With decades of **experience** and **expertise** in supporting the delivery of quality educational facilities from concept to completion, Lysaght **understands** the unique challenges and needs of such projects. Lysaght's range of **products and solutions** enhance educational facilities through their durability, energy efficiency, aesthetics, cost-effectiveness and environmental impact.

150 YEARS

of shaping Australian design.

With 150 years' experience in Australia's building and construction industry, Lysaght is the steel building products supplier of choice for customers wanting consistent, quality assured and compliant Australian-made products. Lysaght shapes coated steel materials including COLORBOND® steel and ZINCALUME® steel into a high-quality range of LYSAGHT® branded roofing, walling, guttering, fencing, purlins and formwork products.

Colorbond® Zincalume®





Lysaght is part of BlueScope – Australia's largest steel manufacturer and one of the world's leading providers of painted and coated steel products.

BlueScope is a global supplier with over 18,000 employees working from 160 operations and sales offices in 18 countries.

Over 30 production facilities and service locations throughout Australia.

LYSAGHT CUSTOM ORB® is the original corrugated iron building material that helped shape the Australian landscape.

BUILD BETTER

Education facilities.

Whether you're building a new education facility or undertaking renovations LYSAGHT® steel building products offers a range of benefits that other materials can't match.

Superior performance - rain, hail or shine

LYSAGHT® steel building products are renowned for their strength and durability, providing robust protection for commercial and industrial buildings. Because long run steel sheets form a continuous surface, they are extremely weather resistant. Steel roofing and walling can withstand impacts, harsh weather conditions, and other environmental factors, ensuring long-term structural integrity.

Design versatility

Modern design trends incorporate steel for both its sleek appearance and its adaptability to various architectural styles. LYSAGHT® roofing and walling products are available in a range of finishes, colours and substrates, allowing building designers and architects to choose the perfect product for their design vision.

Strong and secure

The strength of LYSAGHT® steel building products allows for long spans that can let you to create more open, unobstructed usable space within your building envelope. Steel walling can also provide enhanced security for commercial buildings. Its strength, fixing methods and durability make it more resistant to unauthorised access or vandalism, contributing to the overall safety and security of the property.

Fire resistance

LYSAGHT® steel roofing and walling is deemed non-combustible under the NCC, providing an added layer of safety for educational facilities. In the event of a fire, a steel roof can help prevent the spread of flames and contribute to the overall fire resistance of the structure.

Quick and efficient construction

The efficiency of steel installation is advantageous for educational buildings. Large panel sizes, interlocking systems, and the lightweight nature of steel, contribute to a faster installation process. This can result in cost savings in terms of labour and construction timelines, making it suitable for commercial projects with tight schedules.

Low maintenance

Unlike many other materials, LYSAGHT® products require minimal upkeep. They won't peel, crack, or warp, reducing the need for regular maintenance and repairs.

Energy efficiency

When combined with appropriate insulation, LYSAGHT® roofing and walling products can significantly improve a building's energy efficiency by reducing the need for heating in the winter and cooling in the summer. LYSAGHT® roofing and walling shaped from COLORBOND® steel, features Thermatech® solar reflectance technology which can help in maintaining a comfortable interior temperature.



GENUINE EXPERTISE

you can lean on.



Lysaght Design Solutions Group

We're more than just experts; we're your trusted partners in delivering leading-edge product and design solutions. As a national team of specialists in product application, engineering, design, and drafting, we offer tailored insights and advice, ensuring that every product's full potential is tapped into for maximum project efficiency and outcome.

We will provide expert advice on:

- Material choices
- Warranty
- Code compliance
- The interplay between design, environment, and product performance
- Precise design guidance
- Advanced BIM modelling

TESTED TO THE HIGHEST DESIGN STANDARDS

for your peace of mind.

Lysaght Product Innovation Group

With its in-house fabrication capability and NATA (National Association of Testing Authorities) accredited testing facility containing over a dozen specially designed testing and validation rigs, Lysaght is able to work with customers and suppliers to develop world-class steel building product solutions. Using the resources of this unique in-house facility, we undertake a range of critical bespoke product development and improvement tasks including:

- **Prototyping**
- **Design**
- **New Product Development**
- **Building System Design**
- **Engineering and Validation**
- **Product Performance Testing**

STEEL

A product for the future.

With its strength, durability, longevity, and ability to be reused and infinitely recycled, steel is a material of choice for buildings, infrastructure, light weight transport, energy production and transmission, and many other uses. Steel is central to society's need for a circular economy – we want steel to remain useful for as long as possible, and then reused, re-purposed and eventually recycled.

At Lysaght, we manufacture our LYSAGHT® steel building products range from 100% Australian-made metallic coated and pre-painted steel. These ingredient steel products are durable and resilient to Australia's harsh climate and their long life helps conserve resources and energy that may otherwise be invested in products with a shorter life span.





LYSAGHT® building products are made from BlueScope steel in Australia and are backed by their multiple sustainability certifications and initiatives.

BlueScope publishes third-party verified Environmental Product Declarations (EPDs) specific to their steel products used to manufacture LYSAGHT® steel building products, such as COLORBOND® and ZINCALUME® providing transparent data on their lifecycle environmental impact.

Selected BlueScope and LYSAGHT® steel products have GreenRate™ certification, ensuring evaluation against sustainability attributes like material toxicity and environmental footprints.

BlueScope's Port Kembla Steelworks, producing steel for LYSAGHT® products, is ResponsibleSteel™ certified, affirming strong environmental, social, and governance.

Lysaght benefits from BlueScope's sustainability initiatives, encompassing sustainable growth, workplace safety, climate action, responsible products, and community support.

AUSTRALIAN MADE STEEL BUILDING PRODUCTS

Shaped from COLORBOND® steel.

Steel has played a pivotal role in commercial, industrial, social and institutional architecture and construction for generations. As Australia's leading shaper of COLORBOND® steel and ZINCALUME® steel, Lysaght is at the forefront of industry trends. We're committed to providing our partners with a premium suite of rollformed steel building products in a wide range of colours and finishes that not only thrive in commercial settings but provide architects and building designers with a choice of materials that allow them to fully realise their design vision.



ROOFING, GUTTERING AND FASCIA

A wide variety of roofing profiles complemented with a range of stylish guttering and fascia options.

WALLING, CLADDING AND FAÇADES

Options ranging from low maintenance single skin products through to complete façade walling systems.

FENCING AND SCREENING

Solutions with boundless design options that will stylishly frame any building or precinct.

WALKWAYS AND SHELTERS

Fully compliant, customised shelter solutions for institutional, commercial and industrial applications.

FRAMING AND FORMWORK

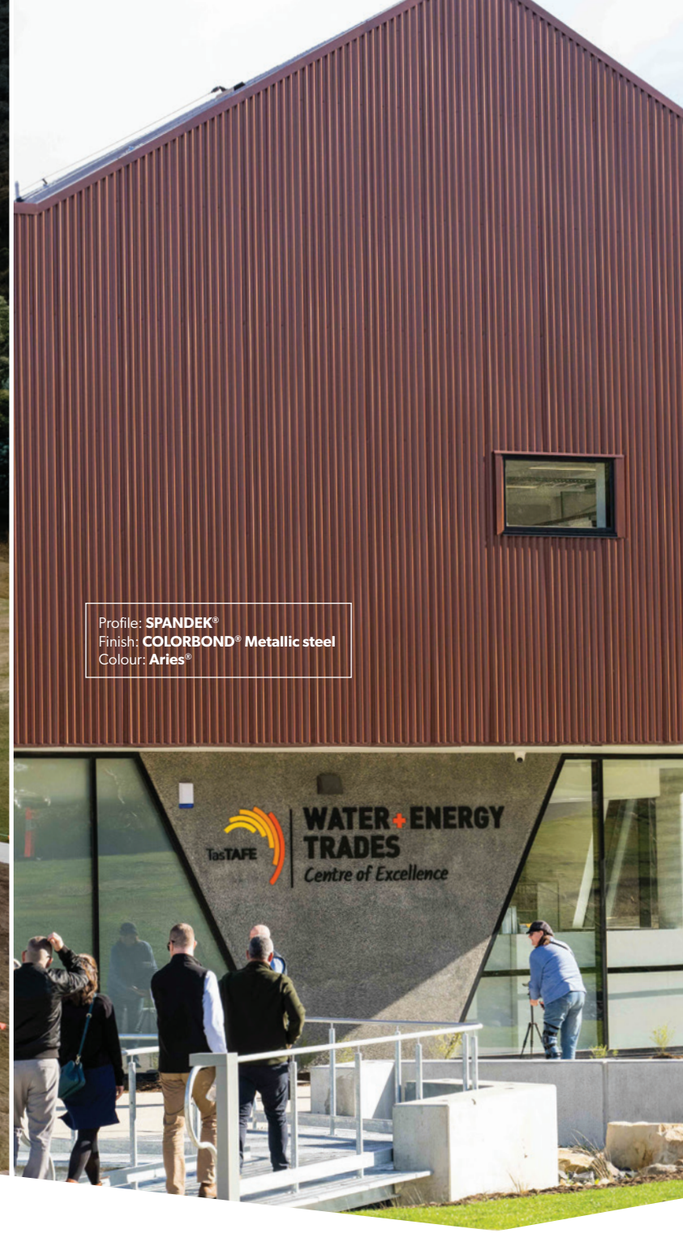
Structural products and construction solutions for every building.

LYSAGHT – SHAPERS OF COLORBOND® STEEL

COLORBOND® steel is Australian-made pre-painted steel that's supplied to Lysaght in large coils. Lysaght then shapes the COLORBOND® steel (through the process known as rollforming) into our range of roofing and walling products, gutters, fascia and downpipes, fencing systems, plus home improvement products such as verandahs, patios and carports.

Colorbond®





TAS TAFE WATER AND ENERGY TRADES BUILDING

LOCATION:	Warrane, TAS
ARCHITECT:	ARTAS Architects in partnership with FMSA Architecture
PRODUCT:	SPANDEK®
FINISH:	COLORBOND® Metallic steel in colour Aries®

TasTAFE's new Water and Trades Centre of Excellence represents a leap forward in training for the renewable energy sector. This state-of-the-art facility, spanning 5000 square metres, is designed to accommodate over 1200 students and apprentices annually. With workshops and classrooms strategically laid out across two levels, the centre's innovative design includes a central sandpit and a towering three-storey high stack, mirroring the intricacies of multi-storey buildings.

One of the standout features of this centre is its roofline, crafted with LYSAGHT SPANDEK® in COLORBOND® Metallic steel color ARIES®, not just for aesthetics but for functionality as well. Working closely with ARTAS Architects, Lysaght ensured that the learning experience goes beyond the classroom. When it rains, students can observe and hear firsthand how water flows and interacts with the building's structure, providing a hands-on understanding of real-world scenarios.

GOODNA STATE SCHOOL

LOCATION: Goodna, QLD

ARCHITECT: arkLAB Architecture

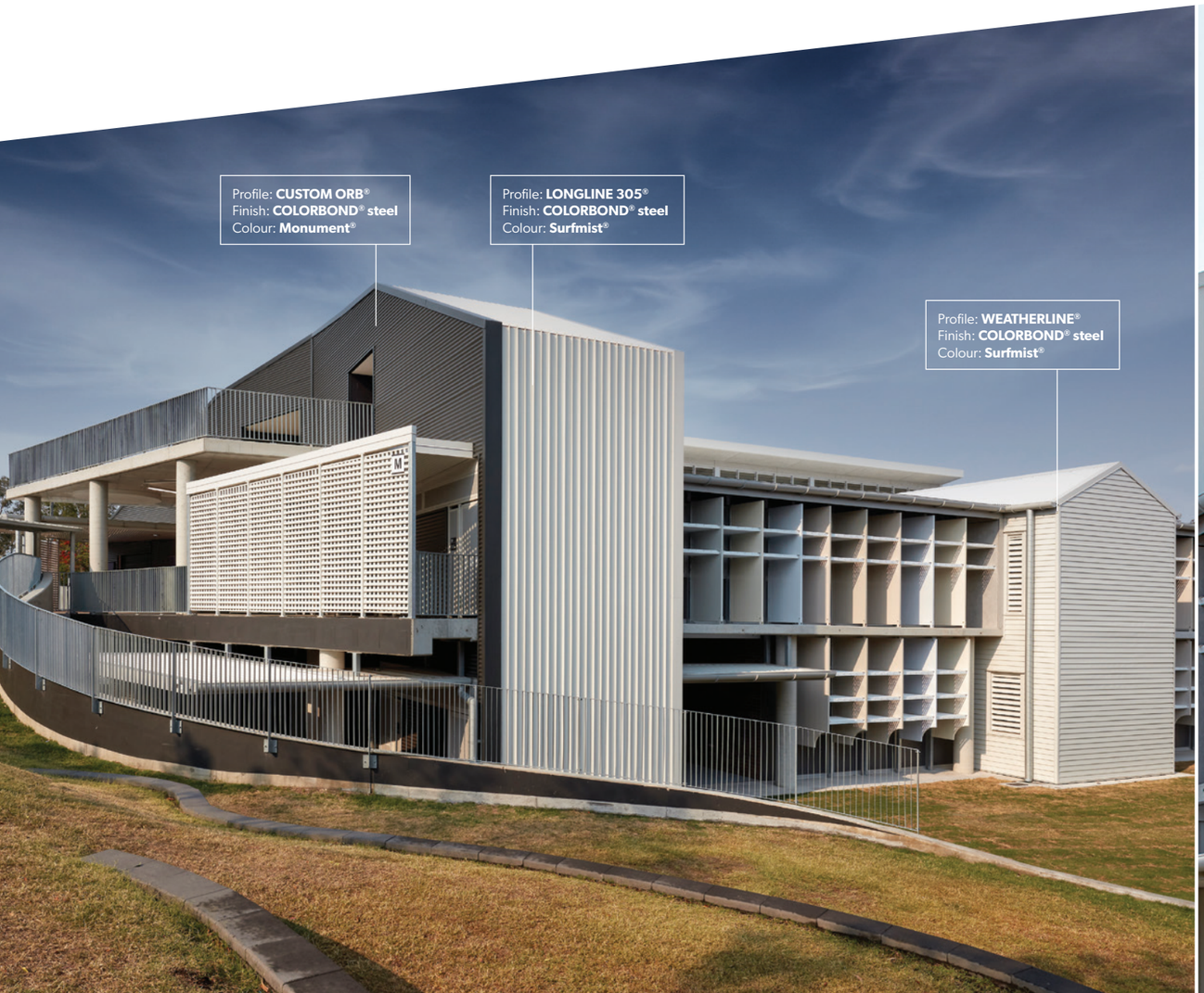
PRODUCT: CUSTOM ORB®; WEATHERLINE®; LONGLINE 305®

FINISH: COLORBOND® steel in colour Monument®
COLORBOND® steel in colour Surfmist®

The stunning new Goodna State School prep and year one general learning area is a two-storey structure that features a third floor viewing platform and includes ten new classrooms, two amenity blocks and staff and data rooms. arkLAB Architecture was given flexibility to push the project design boundaries which saw the practice turn to Lysaght to help achieve a contemporary design that also played homage to the school's heritage. Sections of the building draw inspiration from the local 'Queenslander'-style houses that are prevalent in the area, while also complementing an existing 1800's school building.

LYSAGHT® products used include LONGLINE 305®, WEATHERLINE® and CUSTOM ORB® cladding, with each material chosen to achieve a specific architectural outcome while also meeting the Department of Education's strict guidelines, limiting the use of high-level painted finishes.

The LYSAGHT® products have also future-proofed stage two works on the site, ensuring compatibility with the design and appearance of new buildings in coming years.







ST CLARE'S PRIMARY SCHOOL

LOCATION: Truganina, VIC

ARCHITECT: ROAM Architects

PRODUCT: CUSTOM ORB®

FINISH: COLORBOND® steel in colour Surfmist®

ROAM Architects selected Lysaght CUSTOM ORB® corrugated walling, using COLORBOND® steel Surfmist® in a Matt finish for St Clare's Primary School in Truganina, Melbourne. The project saw the additional of six new learning areas to meet the increased student needs of the region. Positioning of the new structures has created a courtyard environment with the site's existing buildings and offers students and teachers a variety of flexible learning environments.





Profile: **CUSTOM ORB®**
Finish: **COLORBOND® steel**
Colour: **Surfmist®**



CENTENARY HEIGHTS SHS – PERFORMING ARTS CENTRE

LOCATION: Toowoomba, QLD

ARCHITECT: Biscoe Wilson Architect

PRODUCT: TRIMDEK®; SPANDEK®

FINISH: COLORBOND® steel in colour Surfmist®
COLORBOND® steel in colour Shale Grey™

Biscoe Wilson Architects tackled a unique challenge when asked to design the Caldwell Performing Arts Centre at Centenary Heights State High School in Toowoomba, Queensland. The project involved creating specialized spaces for dance, drama, music, and film alongside an auditorium. With extensive experience in educational architecture, the firm met the challenge by conducting thorough research and engaging with consultants to ensure high-performance standards. The resulting design features a versatile auditorium with advanced acoustics and AV capabilities. A combination of TRIMDEK® and SPANDEK® provided a durable and low maintenance exterior, contributing to the project's recognition in various awards, including 'Project of the Year 2020' in the Master Builders' Awards.



GREATER SHEPPARTON SECONDARY COLLEGE

LOCATION: Shepparton, VIC

BUILDER: Hansen Yucken

PRODUCT: TRIMDEK®

FINISH: COLORBOND® Metallic steel in colour Rhea®

Constructed over two years and one of Victoria's most advanced and largest 'super schools', Greater Shepparton Secondary Collage, discovered the strength and style of LYSAGHT TRIMDEK® with its trapezoidal profile. Bold lines and the unique use of COLORBOND® steel Metallic colour Rhea® added a modern edge to the colleges architectural design, showcasing functional features such as high water- carrying capacity whilst delivering visually stunning results.



Profile: **TRIMDEK®**
Finish: **COLORBOND® Metallic steel**
Colour: **Rhea®**

Profile: **TRIMDEK®**
Finish: **COLORBOND® Metallic steel**
Colour: **Rhea®**





IVANHOE GRAMMAR - THE ROUND

LOCATION: Shepparton, VIC

ARCHITECT: McBridge Charles Ryan

PRODUCT: LONGLINE 305®

FINISH: COLORBOND® steel in colour Night Sky®

The vibrant new Senior Years and Science Centre at Ivanhoe Grammar School's Plenty Campus, aptly named The Round, has made a bold visual addition to the Campus grounds and a dramatic difference to the students who utilise it.

Designed by award-winning Melbourne architects McBride Charles Ryan (MCR), the creation of The Round was underpinned by the vision that it would provide the ideal transitional environment for Ivanhoe Grammar's senior students as they moved beyond secondary to tertiary schooling, along with an exemplary science facility for the whole school.

Great thought and consideration went into every last detail of this very special building – including specification of LONGLINE 305® in the COLORBOND® steel colour Night Sky® as the cladding of choice.

Additionally, rainwater from the LYSAGHT KLIP-LOK 700 HI-STRENGTH® roof is collected and stored in a large underground tank and recycled for toilet flushing. With its excellent water-carrying characteristics, LYSAGHT KLIP-LOK 700 HI-STRENGTH® was ideal in this role and was chosen by MCR as it was economical, robust, easily sourced and quick to construct - while still being aesthetically pleasing.

Incorporating design features which reflect the contemporary tertiary settings that senior students will soon encounter, The Round features 10 new classrooms including breakout and private study areas, three specialist Senior Years Science laboratories – including Physics, Chemistry and Biology laboratories – as well as a Primary and a Middle Years laboratory.

QLD COVERED WALKWAYS

LOCATION: Various QLD locations

BUILDER: Watpac

PRODUCT: LYSAGHT® Covered Walkways

Watpac, a prominent commercial builder, secured a contract in early 2014 to construct ten schools across nine suburbs in South East Queensland. The decision to utilise the LYSAGHT® Covered Walkway System stemmed from its comprehensive engineering and suitability for this significant educational project. Composed of LYSAGHT® steel building components; FIRMLOK® beams, SmartParts™ connectors, SPANDEK® roofing, as well as fixings, guttering, and posts, this system provided a fully engineered solution for constructing safe, durable, and visually appealing covered walkways, shielding students and staff from the elements.

The Covered Walkway System's attributes, including a 20-year structural warranty, 15-year BlueScope perforation warranty, and Form 15 Compliance Certification, were pivotal in its selection for this project. Moreover, factors like aesthetics, lead times, logistics, and structural adaptability favored the LYSAGHT® system over alternatives, making it a perfect match for the schools initiative. In collaboration with Watpac and GSA Architects, Lysaght designed roughly 1,800sqm of covered walkways for Stage 1 of Burpengary Secondary School and Pimpama Primary School, ensuring safety and operational efficiency. Construction progressed seamlessly with RHM Building Innovations, with further installations completed over a 2-year period, underscoring the system's efficacy and dependability in educational infrastructure development.









PENRITH ANGLICAN COLLEGE

LOCATION: Orchard Hills, NSW

ARCHITECT: Terroir

PRODUCT: KLIP-LOK 700 HI-STRENGTH®

FINISH: COLORBOND® steel in colour Surfmist®

The Penrith Anglican College Performing Arts Centre, designed by Terroir, boasts a state-of-the-art facility featuring various amenities such as dance studios, drama rooms, and a recording studio. Its design connects seamlessly with the existing theatre while enhancing functionality. The visually striking roof, made from LYSAGHT KLIP-LOK 700 HI-STRENGTH® roofing with COLORBOND® steel Surfmist® finish, adds to its aesthetic appeal.

Despite its seemingly straightforward choice, selecting the roofing involved meticulous engineering and design input. The facility has been applauded for its creative excellence, winning top honours at the 2019 Lysaght Inspirations Design Awards, showcasing the best of Australian contemporary design.





TRINITY GRAMMAR SCHOOL

LOCATION:	Woollamia, NSW
ARCHITECT:	Building Studio
PRODUCT:	LONGLINE 305®
FINISH:	COLORBOND® steel in colour Woodland Grey® ZINCALUME® steel

Trinity Grammar School established the Environmental Field Studies Centre to enhance educational experiences for students. The facility, located in Woollamia, NSW, offers classrooms, labs, and accommodations for up to 88 students and 10 staff. It facilitates offsite teaching for Year 7 and 8 Geography and supports the Year 9 Environmental Field Studies Programme. LYSAGHT LONGLINE 305® was used as both a roof and wall profile with its concealed-fix system offering both visual appeal and practical functionality.

MERCY COLLEGE

LOCATION: South Mackay, QLD

ARCHITECT: Bold Architecture + Interior Design

PRODUCT: TRIMDEK®; ENSEAM®

FINISH: COLORBOND® steel Matt in colour Monument®

Redeveloping an existing single storey library and transforming it into a new, two-level library building with a civic feel, that would become the heart and soul of a greater 'student city', was a challenging brief for Bold Architecture + Interior Design.

A further challenge was that the revised structure would need to be constructed using the existing slab of the current building. This was as a cost-saving measure, but also because the land-locked nature of the site and growing student numbers, meant that outdoor space was highly valued.

The project used a range of Lysaght materials including LYSAGHT ENSEAM® which aside from its functionality and low maintenance qualities, also provided a prestigious civic-type look. TRIMDEK® was also used extensively throughout the build chosen for its versatility and strength.





Scan the QR code for more information on Lysaght's product range and services at **lysaght.com**

LYSAGHT.COM

FOR SALES ENQUIRIES CALL 13 30 38
FOR TECHNICAL ENQUIRIES CALL 1800 641 417

COLORBOND®, SUPERDURA®, ZINCALUME®, PERMALITE®, LYSAGHT® and ® colour and product names are registered trademarks of BlueScope Steel Limited and ™ colour and product names are trademarks of BlueScope Steel Limited.
© 2024 BlueScope Steel Limited. ABN 16 000 011 058. All rights reserved. LYH2488 - 10/24

INSPIRATION TO BUILD BETTER

LYSAGHT