Truecore®

TRUECORE® STEEL
Capabilities Guide

Structural framing solutions

to meet the challenges of construction today



BlueScope

More project teams are using structural framing made from light gauge steel to meet the challenges of present-day construction, and the reasons are clear.

Structural framing made from light gauge steel has allowed design, construction and engineering teams to find new offsite efficiencies and accelerate project timeframes, while realising projects that comply with important construction standards and sustainability rating tools.

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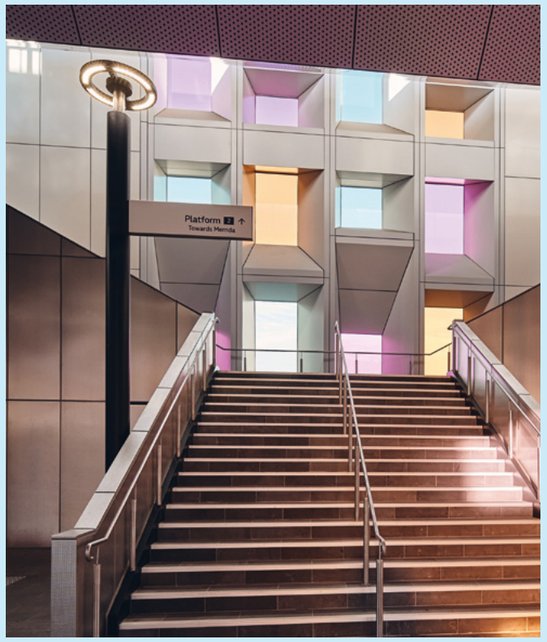
• Sunkids Childcare Centre, Australian Framing Solutions

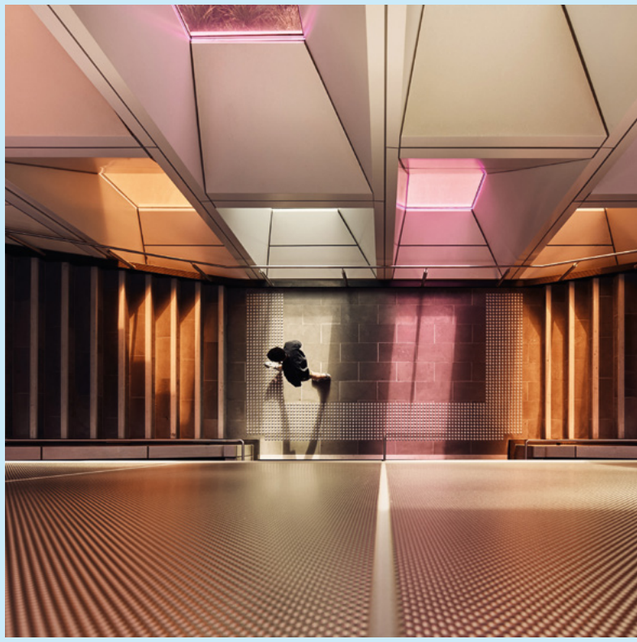
Designed for today’s construction challenges

Industry changes, such as those driven by digital technology, offsite prefabrication, and changes in labour availability and skills, have all contributed to the successful use of light gauge steel structural framing.

Current economic and construction challenges have created new opportunities to build more competitively, while at the same time reducing risk such as escalating costs and delays. With the ability to integrate with other structural materials such as timber, concrete and hot rolled steel, framing made from light gauge steel has proven itself to be a mainstay within advanced residential construction solutions and is increasingly adopted in a wide variety of commercial projects.

These include single, duplex and multi-home residential developments, facilities such as aged care, health care, child care, education, accommodation and retail as well as modular facilities, facade applications, high rise additions and infrastructure projects such as modern, community focussed facilities.







• Bell Station Level Crossing Removal Project, CMG Frames

Streamlined project management, greater precision and reduced onsite risks are just some of the benefits delivered by prefabricated, light gauge steel structural framing.



Prefabricated construction delivers clear cut benefits

More project teams are embracing light gauge steel framing solutions because of the many advantages offered by prefabrication carried out in a controlled, offsite factory:

- Improved project management outcomes can be achieved by reducing exposure to external elements such as inclement weather.
- Prefabrication frees up the availability of onsite labour to undertake other onsite tasks.
- Site deliveries may be reduced, as prefabricated modules and assembled components can be delivered in pre-determined packages. Transport cost, complexity and onsite disruptions may also be reduced.
- Consistent quality and greater precision of structural panels or cassettes by fabrication occurring in a controlled, factory environment.
- May contribute to the reduction of onsite safety risks as prefabrication can reduce the amount of onsite and elevated work.
- Fast and easy certification because framing installation has the ability to be checked and signed off in line with engineer's instructions and shop drawings.

Fast and precise CAD/CAM integrated fabrication

Digital integration of CAD/CAM software with engineering calculations and advanced fabrication machinery, makes offsite fabrication of light gauge steel framing fast and precise.

Commonly used systems include FRAMECAD® Automated Framing, ENDUROFRAME® Building System, Scottsdale™ Construction Systems and other proprietary systems. While other fabricators use design software such as Vertex CAD/PDM™, FRAMECAD Pro and ENDUROCADD® which integrates with rollforming machinery.

Most software supports 3D visualisation to aid in the planning of spaces and to provide collision detection with other services such as plumbing, HVAC and electrical.





Streamlined prefabrication and project management

With the growing need to deliver larger scale facilities within shorter time frames, offsite prefabrication allows project teams, including fabricators, to work together to deliver advantages such as considered service design, timely framing deliveries, efficient use of labour and minimal disruption of public traffic on or near the site.

CAD based framing systems convert architectural plans into machine readable files, that identify the location of service holes, bracing, hold downs and attachments. The engineering of these detailed plans can be evaluated considering the National Construction Code (NCC) and all relevant standards, loads and environmental considerations such as wind and proximity to marine conditions, while CAD allows detailed previews in 3D.

Precision engineered, structural framing made from light gauge steel can reduce the foundations required and reduce the requirements for hot rolled structural steel.

Prefabricated packages delivered in a timely manner

Prefabricated structural framing can be delivered to site in framing and truss packages that best suit the efficient management of the project.

Light gauge steel framing is light weight and can be moved around the site easily, freeing up labour and skills that can be used on other areas of the project. Framing deliveries can be accompanied by detailed plans, providing onsite installation crews with a blueprint for rapid installation of framework, and assisting with engineering and certifier signoff between different levels of a build.

Additionally, because of its high strength-to-weight ratio, framing made from light gauge steel may require smaller or fewer cranes on your project.

More carpenters and installers are now skilled and equipped to work with light gauge structural framing, and because it's pre-punched with service holes that are ready for electrical cables and plumbing, this allows following trades to work quickly and efficiently.

The distinctive blue resin finish is just the beginning of what sets TRUECORE® steel apart.

While the blue resin finish is the most visually striking feature, it's only the first of many genuine differences. Decades of research & development, rigorous testing, and manufacturing expertise go into ensuring TRUECORE® steel delivers consistent, reliable performance.

Industry-leading Activate® technology for enhanced corrosion resistance, transparent environmental data, plus the unrivalled backing and on-ground support of BlueScope, all help to make the TRUECORE® steel difference.



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The evolution of light gauge steel framing in Australia

Throughout its history, BlueScope has demonstrated a strong commitment to innovation and a healthy R&D pipeline.

Since launching TRUECORE® steel into the Australian residential market in 2005, BlueScope, its channel partners and fabricators have amassed in-depth knowledge on the use of light gauge steel framing.

The consistency of TRUECORE® steel as a steel framing material, coupled with an industry embracing digital innovation, has delivered decades of benefits in the residential home market and has more recently delivered results in a wide range of commercial and infrastructure projects.

Prefabricated and dimensionally accurate, light gauge framing made from TRUECORE® steel has proven itself to be a fast and efficient solution for structural framing, especially in light of global shortages in labour and material supply. Additionally, architects and engineers have proven the ability of light gauge steel framing to support large open plan spaces, curved walls and features such as raked ceilings.

With a greater focus on sustainability in the built environment, BlueScope has also developed an independently verified Environmental Product Declaration (EPD) for TRUECORE® steel.

In Australia, the sustainability credentials of TRUECORE® steel are recognised by Green Star's Responsible Products Framework as 'best practice' with a Responsible Product Value (RPV) of 23.

For more information visit:

truecore.com.au/sustainability



Prefabricated and dimensionally accurate, light gauge framing made from TRUECORE® steel has proven itself to be a fast and efficient solution for structural framing.

A legacy of structural integrity for generations to come

Structural framing made from light gauge TRUECORE® steel is exceptionally light weight and strong yet versatile in its application.

Prefabricated framing allows for the fast, efficient erection of a wide range of design styles, both traditional and leading edge.

Precision engineered, light gauge steel framing provides the structure for straight and true walls, curved walls and raked ceilings as well as the strength to support large, open plan spaces.

Framing made from light gauge TRUECORE® steel is durable and will not warp, twist or shrink. It is also 100% termite proof, won't catch fire, and can help you meet the standards required for building in bushfire prone areas.

In addition, TRUECORE® steel is backed by a reassuring 50-year warranty* from BlueScope, offered to eligible applicants for residential applications, subject to terms and conditions available at bluescopesteel.com.au/warranties.

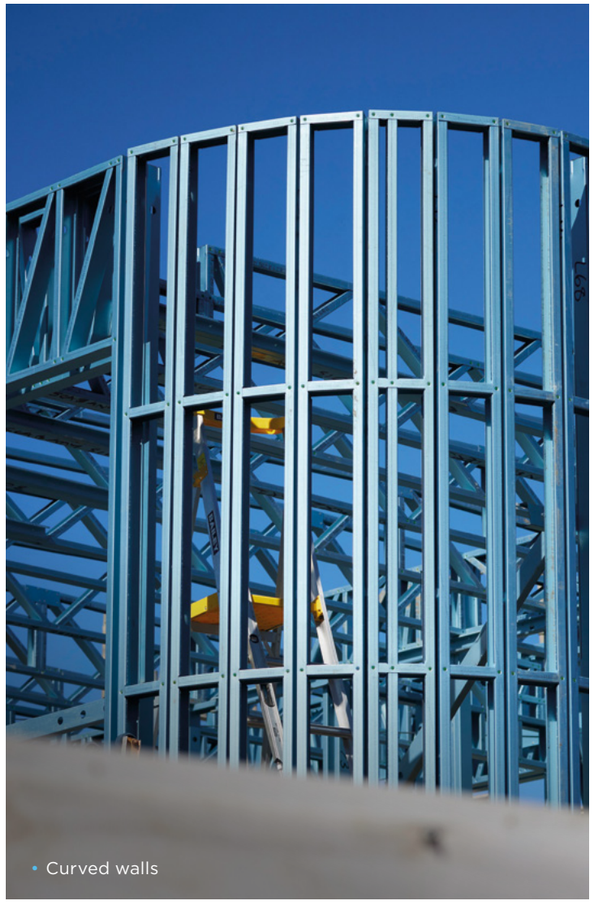
Commercial warranties may also be available on application.*

For more information visit:

bluescopesteel.com.au/warranties



• Open plan spaces



• Curved walls



• Straight and true walls

* Warranties are subject to application and eligibility criteria. For full terms and conditions and to determine the eligibility of your project for the warranty visit bluescopesteel.com.au/warranties or call BlueScope on 1800 800 789. Warranties provided by BlueScope do not affect consumer rights under the Australian Consumer Law.

Precision engineered, light weight and strong

Light gauge TRUECORE® steel is suitable for a wide range of purposes, including structural wall frames, roof trusses, intermediate floors, facade framing, box fins, and transportable modules, which can be prefabricated as cassettes, panels or complete modules ready for installation.

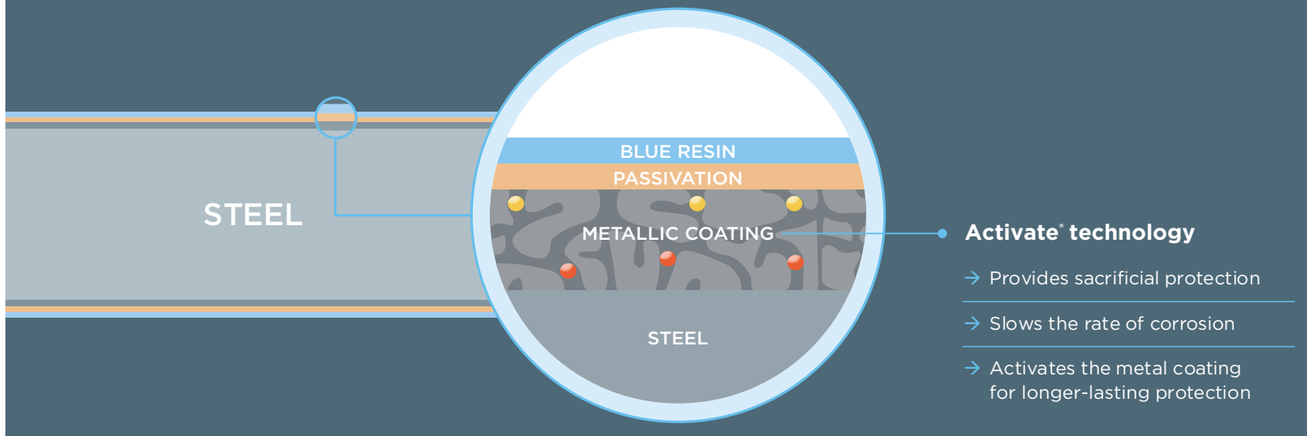
Available in three different structural grades, G450, G500 and G550 and in base metal thickness (BMT) ranging from 0.42 to 1.6mm. TRUECORE® steel is made by BlueScope to strict tolerances and is marked to demonstrate conformance with Australian Standard AS 1397:2021, including the thickness (BMT), coating class, and gauge.

The markings also include a unique identifier to ensure TRUECORE® steel is fully traceable to the point of production. Product test certificates can be made available upon request for BlueScope products, avoiding any costly and unnecessary delays that can be caused by steel that can not be verified.



Activate® technology provides enhanced resistance to corrosion

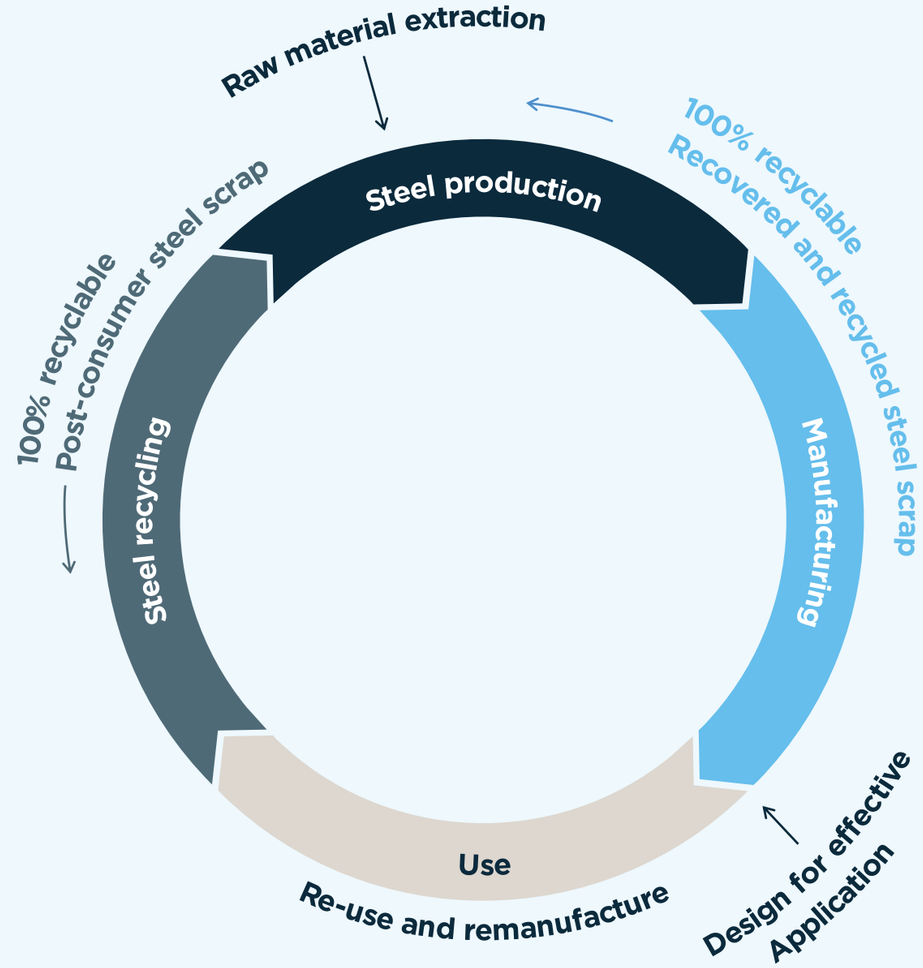
TRUECORE® steel is provided with enhanced protection against corrosion. The base steel is coated with BlueScope's industry-leading aluminium, zinc, magnesium alloy coating incorporating Activate® technology which uses sacrificial and barrier protection to inhibit corrosion of the steel substrate and provide longer-lasting performance.



Transparent environmental data and circular economy principles

1. **Durability**
   BlueScope embraces circular economy principles in product development, including the design of products for durability and resilience.
2. **Reduced steel waste**
   Due to the efficient manufacture, prefabrication and onsite use of structural framing made from TRUECORE® steel, steel waste is kept to an absolute minimum.
3. **100% recyclable**
   Any small amount of steel waste that is created can be recycled in the steel making process without any loss in quality. All TRUECORE® steel contains recycled content[1] and the steel itself is 100% recyclable.
4. **Contribute to sustainable design outcomes**
   An independently verified product specific Environmental Product Declaration (EPD) is available for TRUECORE® steel, and provides transparent data and other relevant information on the lifecycle and environmental impacts of the product. The EPD can be used in the context of a Life Cycle Assessment (LCA) of the entire building or structure, which can then be used to inform material selection and design choices.
5. **Manufactured at a Responsible Steel™ certified site**
   TRUECORE® steel is manufactured at BlueScope sites in Port Kembla NSW and Western Port VIC. These sites are certified to ResponsibleSteel™ Standard Version 2.1.
6. **Best Practice**
   The combination of the product-specific EPD for TRUECORE® steel, Global GreenTag^{CertTM} Greenrate™ certification and ResponsibleSteel™ certification for Port Kembla Steelworks, equates to a Responsible Product Value of 23 in the Green Building Council of Australia's Responsible Products Score Checker. This is considered 'Best Practice' under the Responsible Products Framework and may contribute to a project's Green Star rating.
7. **Green Star**
   EPDs, GreenRate™ and ResponsibleSteel™ certification are recognised initiatives under the Green Star Responsible Products Framework and can contribute to a project's Green Star rating. TRUECORE® steel has an EPD and the highest GreenRate™ 'Level A' rating.

Given its strength, durability and recyclability, steel is central to a circular economy.



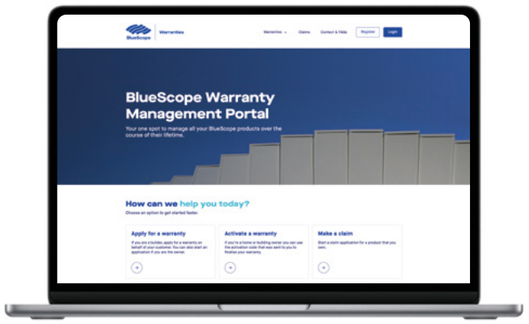
1. Across the range of steel products manufactured by BlueScope in Australia, the average recycled content (according to recycled content categories defined in ISO 14021:2016) in the steel is 25.7%, which includes pre- and post-consumer recycled materials. Scrap and iron-bearing materials generated and reclaimed from BlueScope's steelmaking, including the BF-BOS process up to slab casting, represent 2.1% of the product mass, which is not reported as recycled content. Scrap arising from downstream processes, such as plate and coil milling, rolling, tempering, annealing, pickling, metallic coating, painting, rollforming and/or fabrication are included as pre-consumer recycled content. The figures provided are based on FY25 data. For current recycled content figures please contact BlueScope Steel Direct on 1800 738 576 or visit steel.com.au/recycled-content.



Unrivaled backing and on-ground support of BlueScope

National warranty* and support have got your back

TRUECORE® steel is proudly manufactured by BlueScope, the manufacturer of COLORBOND® steel. BlueScope backs TRUECORE® steel with a warranty of up to 50 years* for eligible residential projects and their applicants and up to 25 years* for eligible commercial projects and applicants.*



For more information visit:

bluescopesteel.com.au/warranties

BlueScope also provides access to local technical expertise on frame construction, material and building science and metallurgy.

Manufacturing and R&D processes that deliver confidence

TRUECORE® steel is made to all relevant Australian standards and is rigorously checked and tested for quality and consistency.

End-to-end quality assurance throughout the manufacturing process of TRUECORE® steel provides users with assurance of its strength, durability, and traceability. The backbone and enduring success of BlueScope is a strong R&D pipeline that promotes innovation in the use of light gauge steel, such as expanding the opportunities for framing made from TRUECORE® steel to meet the growing challenges in modern commercial construction.

Support to help you realise the benefits of TRUECORE® steel

With help from our construction specialists and channel partners, BlueScope can help provide your project team with expert support with using light gauge steel framing on your project.

Through our dedicated supply network, we can introduce you to fabricators who can show you how framing made from TRUECORE® steel can be designed, engineered and prefabricated for your precise purposes and objectives. Our specialist account managers can also help should you require advice on installation, tools and training.

* Warranties are subject to application and eligibility criteria. For full terms and conditions and to determine the eligibility of your project for the warranty visit bluescopesteel.com.au/warranties or call BlueScope on 1800 800 789. Warranties provided by BlueScope do not affect consumer rights under the Australian Consumer Law.

Fit for a wide range of applications

Wall frames, roof trusses and intermediate floors made from light gauge TRUECORE® steel can benefit both low and mid-rise buildings that require design flexibility as well as an aesthetic, yet functional form.

Additionally, projects with distinctive architectural features have been delivered based on the original architectural design intent with the aid of structural solutions made from light gauge TRUECORE® steel.



• Structural wall frames



• Intermediate floors



• Facade framing



• Roof trusses



• Panels



• Transportable modules

Residential homes, duplexes, low-rise apartments and townhouses

The efficient use of light gauge steel framing made from TRUECORE® steel has been tested and refined over decades by Australia's leading home builders and is now commonplace in both detached and semi-detached buildings.

- ☑ Tested and refined over decades by leading home builders
- ☑ Reduce onsite rework by following trades
- ☑ Ideal framing material for Class 1 - 3 buildings

Consequently, framing made from TRUECORE® steel is now backed by a knowledge base that lends itself perfectly to the repetitive nature of multi-story layouts, structural assemblies and wall panels involved in multi-dwelling applications.

Tight budgets and project schedules, and limited onsite access are challenges that may be overcome with the advance of offsite prefabrication methods and the adoption of structural framing made from light gauge TRUECORE® steel.

Precision engineered, light gauge steel framing made from TRUECORE® steel can reduce onsite re-work for following trades, thereby helping project teams to realise projects faster and more efficiently.

TRUECORE® steel has a high strength-to-weight ratio and won't catch fire, making it an ideal framing material for Class 1 - 3 buildings where a light weight construction approach is considered. Light gauge steel framing can also be efficiently and cost-effectively integrated with other structural materials such as timber, concrete or hot rolled steel to achieve the desired project outcomes.

For case studies, visit:

truecore.com.au/case-studies



• McDonald Jones Homes, Supaloc



• Zinnia Apartments, Dynamic Steel Frame



• AUSMAR



• Hampton Park, Dynamic Steel Frame

Hospitals and health care facilities

The design flexibility and adaptability provided by light gauge steel framing offer significant advantages when constructing hospitals or health care facilities.

- ☑ Design flexibility and adaptability
- ☑ Minimise noise and vibration that can disrupt patient care
- ☑ Minimise scaffolding, heavy lifting equipment and truck movements

Where modifications to an existing facility need fast completion with minimal noise and vibration that can disrupt patient care, prefabricated facade panels and structural framing are a good alternative.

The considered deployment of prefabrication may eliminate or minimise the need for expensive scaffolding and heavy lifting equipment. In addition, challenges of truck movements and installation labour onsite can be minimised, thereby improving safety and reducing waste outcomes.

For case studies, visit:

truecore.com.au/case-studies







• Ramsay Clinic Northside, Austruss

Schools, universities, education and childcare centres

The speed and efficiency with which it can be installed onsite, light gauge steel framing made from TRUECORE® steel can be a cost-effective structural solution for school rooms and even entire school campuses.

- ☑ Fast and efficient onsite installation
- ☑ 3D modelling allows for optimised design
- ☑ Ideal for childcare centres located above retail centres

The use of 3D modelling software allows for the optimised design of many building types, including schools. Where repetition in the design layout is possible, the use of 3D modelling with modern methods of construction can significantly speed up construction times.

Additionally, being light weight and strong, framing made from TRUECORE® steel lends itself perfectly to childcare centres, including those located above urban retail facilities.

For case studies, visit:

truecore.com.au/case-studies





• Smalls Road Public School, Austruss



• Redland Bay State School, Hytek Framing



• Insight Early Learning Centre, Steelscene







Retirement living and aged care facilities

Having transitioned from the comfort of their own homes, many aged care residents look for facilities that support the health, wellbeing and social aspects of their lifestyles.

- ☑ Supports modern, open plan living
- ☑ 3D design includes fabrication of detailed features
- ☑ Termite proof, and without need of insecticides

Room designs can be engineered to support modern, open-plan living and can be orientated to take in their natural surrounds and light. Rooms are often designed into smaller clusters to support Person Centred Care requirements and to provide a sense of community with neighbouring residents.

Light and strong, framing made from TRUECORE® steel supports the use of large spans and open spaces, which promotes a highly valued community feel. Additionally, 3D design modelling with efficient fabrication enables items such as PWD rails, wheelchair access, TV recesses and niches to be seamlessly incorporated into the build.

The use of prefabricated framing made from TRUECORE® steel can minimise the number of truck movements and prove advantageous on constrained sites, enabling structural framing to be installed quickly and efficiently.

Importantly for many aged care facility owners, framing made from TRUECORE® steel is termite proof without the need for treatment with insecticides; supporting healthier living environments for the elderly.

For case studies, visit:

truecore.com.au/case-studies



• Penneys Hill Estate, Maxispan Steel Building Frames



• Sunrise Beach Aged Care, Ultimate Steel Framing





• Glengara Retirement Village, Topsteel Solutions

Community focused infrastructure

Precision engineered and prefabricated off site, structural framing made from TRUECORE® steel is fast and efficient to install onsite, thereby minimising disruption to public traffic and commercial trade.

- ☑ Fast and efficient onsite installation
- ☑ Ideal for aesthetically designed communal space
- ☑ Designed and engineered to support dynamic loads

Light and strong, framing made from TRUECORE® steel is ideal for aesthetically designed communal spaces that can reinforce local character, celebrate heritage and increase commercial viability.

As well as being designed and engineered to support dynamic loads, structural framing made from light gauge TRUECORE® steel can easily support cladding to cover a myriad of complex essential services.

For case studies, visit:

truecore.com.au/case-studies



• Spirit of Tasmania Freight and Passenger Terminal, Cortek







• The Round Performing Arts Centre, CMG Frames







Social housing, worker and student accommodation

Light gauge steel framing is quick and efficient to erect, as it offers a high strength-to-weight ratio, and can often be erected without the need for large cranes on site.

- ☑ Quick and efficient to erect
- ☑ Easily added to, reconfigured and repurposed
- ☑ Prefabricated off site for faster construction

The design flexibility of framing made from TRUECORE® steel means buildings can be easily added to, re-configured and repurposed.

With the ability for light gauge steel framing to be prefabricated offsite, accommodation can be constructed in less time than traditional construction methods.

For case studies, visit:

truecore.com.au/case-studies



• LUMA Sunshine North, SAW Constructions

Standalone retail facilities

Light gauge structural framing made from TRUECORE® steel has been used successfully in the construction of many fast-food outlets and standalone retail stores.

- ☑ Fast and efficient to erect
- ☑ Designs can be quickly modified for specific sites
- ☑ Dimensionally accurate framing won't catch fire

The use of 3D design with efficient manufacture of frames made from TRUECORE® steel means that designs can be modified simply across multiple locations, ensuring retail household names and brands can deliver a consistent experience for their consumers with minimal hassle during the build process.

Fast and efficient to erect, prefabricated framing made from TRUECORE® steel allows franchisors to meet pressing new store opening dates.

Designs for each facility can be quickly adjusted to the operations requirements of a specific site, while detailed shop drawings and visualisation of each facility ensures that complex services, including water, lighting and air-conditioning are all consider in as part of detailed framing design.

Dimensionally accurate framing made from TRUECORE® steel won't catch fire and provides design flexibility for individual store footprints, needs and performance.

For case studies, visit:

truecore.com.au/case-studies



• Hungry Jack's Bayview Centre, Topsteel Solutions. Image of framing is for illustrative purposes only.



• Hungry Jack's Bayview Centre, Topsteel Solutions







Fit for modular construction, DFMA and DFMAD

Structural framing made from light gauge TRUECORE® steel plays a pivotal role in modular construction and building projects that consider a design for manufacture, assembly and disassembly approach; advanced building practices that are both cost-effective and efficient when considering the longer-term use of the asset.

- ☑ Precision engineered, light weight and strong
- ☑ Minimise steel waste and reduce costs
- ☑ Efficiently transported and assembled quickly on site

Precision engineered, light weight and strong, structural framing made from TRUECORE® steel provides the durability, structural integrity and consistent quality needed to build standardised components.

Light gauge steel fabricators can streamline production processes, minimise steel waste and reduce the costs of prefabricated framing in a controlled, offsite factory environment. Light weight and strong, modules and pods designed for transport and efficient assembly at site offer a cost effective and potentially reusable building solution.

For case studies, visit:

truecore.com.au/case-studies



• TR Homes, Murray River North Group



• Summit Modular, Backbone Steel Framing



• Oly Homes



• COVID-19 Surge Centre, Austruss





Top floor additions

With the increasing density of our cities, building owners and developers are looking for ways to increase occupancy and maximise the value of their assets. One emerging solution is the creation of additional levels at the top of existing buildings.

- ☑ Cost effective and viable solution
- ☑ Impressive strength-to-weight ratio
- ☑ Ability to be 'previewed' on top of existing buildings

Because it is a cost-effective and viable solution, structural framing made from TRUECORE® steel has become the material of choice for these top floor additions primarily because of its impressive strength-to-weight ratio, ability to be prefabricated offsite to exact tolerances, and its ability to be 'previewed' on top of existing buildings with the help of CAD, engineering software and 3D modelling.

Light weight steel framing can be used to develop new levels on top of an existing building, taking into account any structural redundancy that may already exist within the existing building structure.

For case studies, visit:

truecore.com.au/case-studies



• Langdon Project, Cortek







• The Gatwick Penthouses, Dynamic Steel Frame



• 388 Lonsdale Apartments, Dynamic Steel Frame







Prefabricated facades

Structural framing made from TRUECORE® steel is also appealing to use in facade applications. An impressive strength-to-weight ratio allows for design versatility, while enabling facades to be lifted into position with precision.

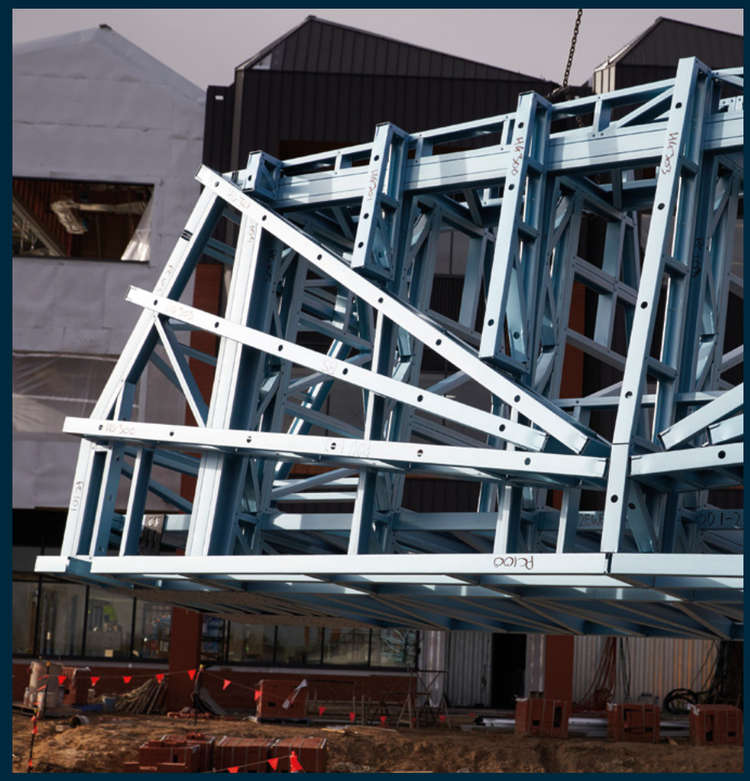
- ☑ Design versatility
- ☑ Little or no onsite adjustment
- ☑ Minimise onsite disruption and related safety issues

Prefabricated and dimensionally precise, facade framing made from TRUECORE® steel means that little or no onsite adjustment is needed and build quality can be regularly assessed prior to installation.

Prefabricated facade modules also minimise onsite disruption and related safety issues while assisting with project schedules.

For case studies, visit:

truecore.com.au/case-studies







• Latrobe Valley GovHub, Dynamic Steel Frame. Photography: Tatjana Plitt.



• Grattan Street Apartments, Dynamic Steel Frame





• Parc Vue Apartments, Dynamic Steel Frame





10 ways TRUECORE® steel helps you meet contemporary construction challenges



1. **Consistent and reliable quality** provides assurance for your project and your customers.
2. **Industry-leading metallic coating** with Activate® technology provides enhanced corrosion resistance.
3. **TRUECORE® steel is manufactured in Australia** and made for the Australian built environment.
4. **A range of BlueScope warranties*** provides peace of mind for the entire project team, including asset owners.
5. **TRUECORE® steel is traceable** to the point of production **and conforms** with all relevant Australian standards. Product test certificates can be provided on request.
6. **Sourced from a ResponsibleSteel™ certified site,** you can be sure TRUECORE® steel is produced responsibly.
7. **TRUECORE® steel EPD offers product transparency** and can contribute to credits achieved under green building rating schemes.
8. **Dependable manufacturing and supply** from BlueScope, Australia's largest steel maker, and an experienced and dedicated supply network.
9. **Strong research and development** ensures continued innovation and expansion of opportunities for the use of light gauge steel framing.
10. **Increasing tools and education** to assist with the specification and installation of light gauge steel framing.

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To learn more about TRUECORE® steel and see a range of recent projects connect with us on social media, visit truecore.com.au/applications or call 1800 738 576.

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