

**STUDCO**  
BUILDING SYSTEMS

# THE **STUDCO** UPDATE

NEWS & UPDATES FROM STUDCO BUILDING SYSTEMS

SEPT/OCT/NOV '10

## Resilmount Resilient Channel From **STUDCO**

*Another quality Resilmount  
product joins the Studco range...*

One of the most cost-effective acoustical products for improving the sound transmission loss through a wall or floor/ceiling system is the Resilmount resilient channel.

Resilient channels are commonly used in multi-residential housing projects. The Resilmount M581 resilient channel is manufactured from 0.45BMT galvanised steel and is available in 3650mm lengths. The fundamental purpose of the resilient channel is to provide a means for attaching the plasterboard to the supporting structure without actually permitting the plasterboard to directly contact the structure. It's the de-coupling of the plasterboard from the framing that provides the improved sound transmission loss. Resilmount resilient channel comes pre-punched for fast, easy fixing and it will be available nationally from mid-September 2010 ■



## PRODUCT CATALOGUE

**Volume 7 catalogue out now**

**Updated**

- New products
- 56 page, full colour catalogue
- New material sizes added
- Punched to suit your Studco information binder

*Contact Studco today to  
get your copy*





Studco suspended ceiling system being installed at new RCH.

# Studco Engineering Services Used On New Hospital Project

**Studco Building Systems is providing engineering and technical assistance services to contractors on site at the new Royal Childrens Hospital in Melbourne, on behalf of some of our key distributors.**

Our services to the RCH site include site visits, qualified documentation, scheduled inspections and design conflict resolution.

This level of service and support is the cornerstone of Studco's growth and we continue to lead the market in quality customer care.

As the RCH project has developed, Studco has become an integral part of the team, working together with the builder Bovis Lend Lease, and several contractors on site to ensure smooth and hassle-free supply of materials and installation.

Studco's engineering services are available to all builders and contractors, even if you purchase our products through your local store. If you can demonstrate to us that you use and prefer Studco products, our engineers will be happy to help you.

So when you are considering whose materials to use for a new project and you're down to negotiating a few cents here and there, ask yourself these questions: Who will back up the product if the builder asks 'does this meet the standard'? What guarantee does this system have? How can I access on-site technical assistance if I get stuck during installation? Will I get paid if they find out about this product?

One more question: How much is it worth, all this back up, product guarantees and on-site assistance? A few cents per metre? At least... ■

Acoustic chase wall with extensive lintel and sill system, designed by Studco and installed at the new RCH.



## PROJECT PROFILE

### Royal Childrens Hospital, Melbourne

To get this project into perspective, check out these facts and figures...

- **230,000m<sup>2</sup>** AREA OF BUILDING
- **357** PATIENT BEDS
- **\$1 billion** COST OF THE PROJECT
- **No. 1** CHILDREN'S HEALTH RESEARCH FACILITY IN AUSTRALIA
- **2000+** CONTRACTORS ON SITE AT CONSTRUCTION PEAK
- **★★★★★** AUSTRALIA'S FIRST 5 GREEN STAR HOSPITAL
- **90** ACCOMMODATION SUITES FOR PARENTS,
- **300,000** PATIENTS TREATED EVERY YEAR



Inspiring architecture and subtle functionality sets the new RCH apart, not to mention the ability of the RCH medical team.



## STUDCO'S NEW STATE OF THE ART U.S. MANUFACTURING FACILITY TAKES SHAPE.

Studco USA, a sister company to Studco Australia, is continuing to experience strong growth and they are expanding their manufacturing facilities to accommodate greater production output. The brand new office and factory complex of Studco USA is situated on the east coast of America and will be home to one of America's most modern manufacturing operations of metal building systems, which are available through distributors right across the nation.

## A 5 minute guide to steel quality

**A steel stud is simply a steel stud, right? Regardless of brand, all steel studs are the same... aren't they? No.**

It's a fact that a stark contrast exists between different brands of steel studs currently available in Australia. The issues relating to inferior steel studs manufactured from sub-standard imported steel pose a real risk to structural integrity and personal safety. Difference occurs in four main areas: material thickness, gauge consistency, protective coating and tensile strength.

### MATERIAL THICKNESS



Studco products are specified using 'BMT' or base metal thickness. This assures you of the actual metal in the material, regardless of the thickness of the galvanized coating. Suppliers quoting 'TCT' or total coated thickness may actually be supplying a lighter gauge material: although the two products will measure the same on the outside, one product has ample galvanizing and the correct metal content, whilst the other has excessive galvanizing and insufficient metal. This affects the distance the product can span and causes screw fixings to 'strip out'.

### GAUGE CONSISTENCY



A key feature of Studco's production facilities is our quality accreditation to ISO9001. Our quality control procedures ensure that only top quality raw materials are used, such as metal from BlueScope. By using premium metals, we're sure that the materials used in our products are consistent in quality and performance.

### PROTECTIVE COATING



The galvanized coating on all Studco products complies to Australian Standards and exceeds the minimum recommended thickness. Thicker galvanized coating is not a positive feature for metal building products! It does not contribute to material strength and it has been known to leach through the lining board, causing blemishes. The quality of the galvanized coating should also be considered: does the coating contain harmful, banned substances? Not Studco products, as they comply to all relevant Australian Standards.

### TENSILE STRENGTH



Studco is fastidious about quality raw materials. Whilst a common trend in the industry has been to opt for low-priced, inferior materials, Studco actively refuses to join this class. Consequently, you can be confident that every length of Studco product you receive is the correct material grade, is the correct tensile strength to satisfy Australian Standards, is manufactured with a uniform molecular structure, has the correct chemical composition and has passed several quality tests by the time it reaches you.

As we continue headlong into the 'brighter future' of standards, regulations and green ratings, we see that architects, builders and developers are becoming increasingly exacting about seemingly irrelevant details in the building process. However, the quality of steel materials in walls, ceilings and facades is of significant importance, and the integrity and serviceability of structures depends vitally upon this. Do it once, do it right... with Studco. ■

**RESILMOUNT**  
SOUND ISOLATION SOLUTIONS

**Need to reduce unwanted noise?**

Sound isolation specialists Studco Building Systems have a range of patented sound isolation products for the wall and ceiling industry, featuring a unique patented thermoplastic rubber with sound cell design.

[www.resilmount.com.au](http://www.resilmount.com.au)



# Studco Steel Stud Provides Economical Solution For BER Projects

The Federal Government's 'Building The Education Revolution' (BER) is now well underway, with many Stage 1 projects now completed. Stage 2 projects are now in the construction phase and Stage 3 projects are just beginning.

Many of the school buildings have been designed using timber infill framing around structural steel and this poses the age-old problem of trying to get walls straight and plumb. After receiving many calls from builders and contractors wishing to use steel studs in these projects, Studco undertook a comprehensive review of the building designs and we have developed an approved alternative design using steel stud throughout. This improved design has been well received by many sites and the Studco steel stud system is now being used nationally on the projects. One builder recently told us "I've only been on-site for four days and my framing is half finished. Steel stud is simply that much quicker and easier to work with." Another contractor says "I was glad I made the decision to build with steel stud. I'm ahead of schedule, the builder is happy and I'm ahead of budget by thousands."



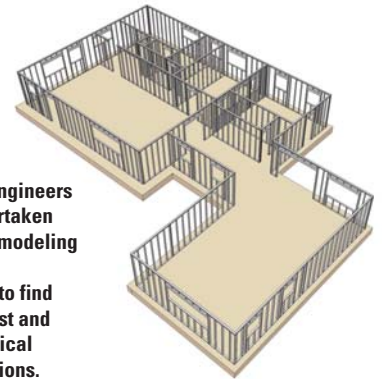
Most builders that we talked to state four main benefits as the reason why they opted for the Studco Steel Stud System...

- Materials are readily available from Studco distributors Australia-wide, unlike some of the unusual timber sizes specified that are hard to source.
- Steel stud walls are fast to erect, installation is trouble-free and the sections are light and easily handled around the site.
- Once the wall is built, there is no need to go back over it and get it straight and level, as with timber framing. This point alone offers major time-savings.
- Overall cost-savings. Builders say that Studco's Steel Stud System is similar to the timber cost but the installation process can be 25% less using steel stud.

If you're involved in the BER Project and would like to use the Studco Steel Stud System, contact us today on 1800 STUDCO and we'll be happy to help you. ■



Many builders on BER projects are opting for Studco steel framing, rather than conventional timber framing. It's faster, straighter and economical.



Studco's engineers have undertaken extensive modeling of the BER templates to find the simplest and most practical design options.

## TECH TIPS

### Using The Studco M100 Bracket In Staggered Stud Walls

Wall installations requiring acoustic isolation are often built as staggered stud walls, where the top and bottom track are a larger size than the stud size and the studs are placed on either side of the track at staggered centres (see Fig. 1). The most common combination is 92mm track and 64mm stud. This combination is relatively simple to work with, as most installers use a small section of Studco M40 wall track to space out the back of the stud (see Fig.2). This method becomes an issue when installing a staggered stud wall in a deflection situation, as the stud is fixed in position and the longitudinal stud movement is effectively stopped. The Studco M126 staggered stud wall clip can be used for deflection

situations, but only where un-hemmed track is used. Another issue arises when different size studs and tracks are specified, such as 150mm track and 76mm studs. All alternative combinations render the M40 wall track fixing method useless. The Studco M100 bracket can be used as a secure and simple fixing method for deflecting staggered stud walls of any stud/track combination (see Fig.3). The M100 bracket is fixed through the track into the concrete substrate and then the stud is screw fixed to the bracket through the slotted holes in the M100 bracket. This will allow the stud to move freely when necessary but hold it firm otherwise. The low-cost Studco M100 bracket is readily available through Studco's national distribution network. ■

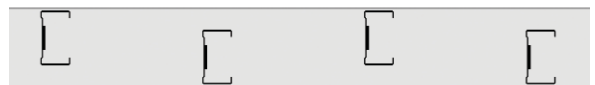


Fig.1 Using the Studco M100 bracket in staggered stud walls works for virtually every stud/track combination, without limiting the deflection requirements of the wall.

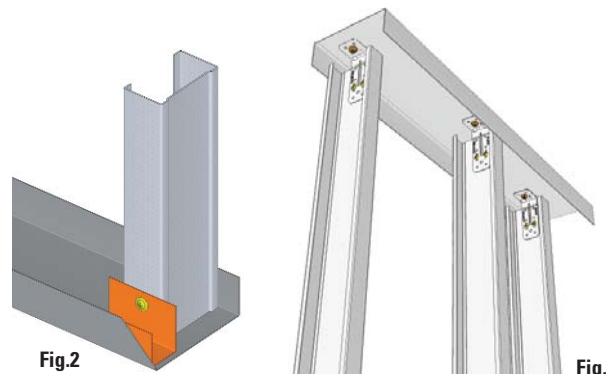


Fig.2

Fig.3

Need engineering assistance? Call Studco Technical Services on 1800 STUDCO for fast, friendly advice.