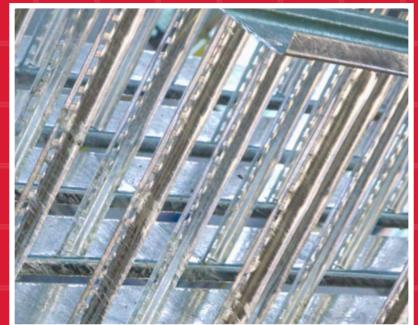


**EzyStrut**

**SEISMIC**

SOLUTIONS

Engineer certified designs and site inspections



\* we manufacture in Australia, and have supported Australian jobs for over 30 years.

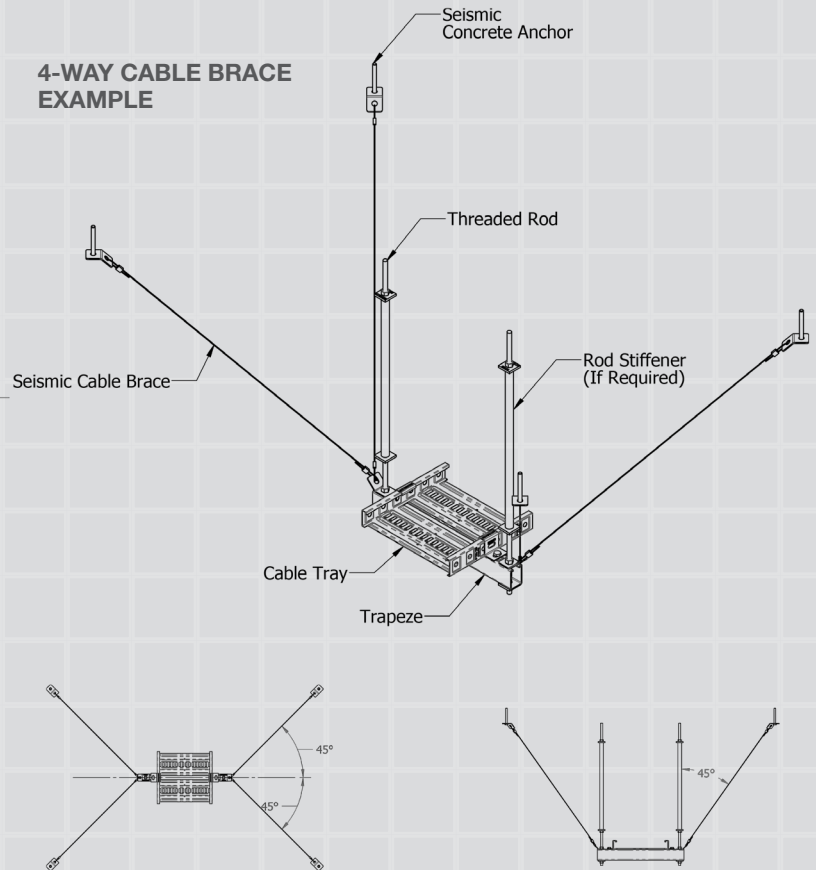
Ezystrut offers a range of seismic solutions that comply with Australian Standard AS1170.4. Our one-stop solution for seismic bracing, cable tray, pipe hangers, strut systems and fasteners takes the guesswork out of your next project. Our seismic team will work to establish the right products at the best cost, ensuring your project will pass inspection.

There are two main types of seismic bracing:

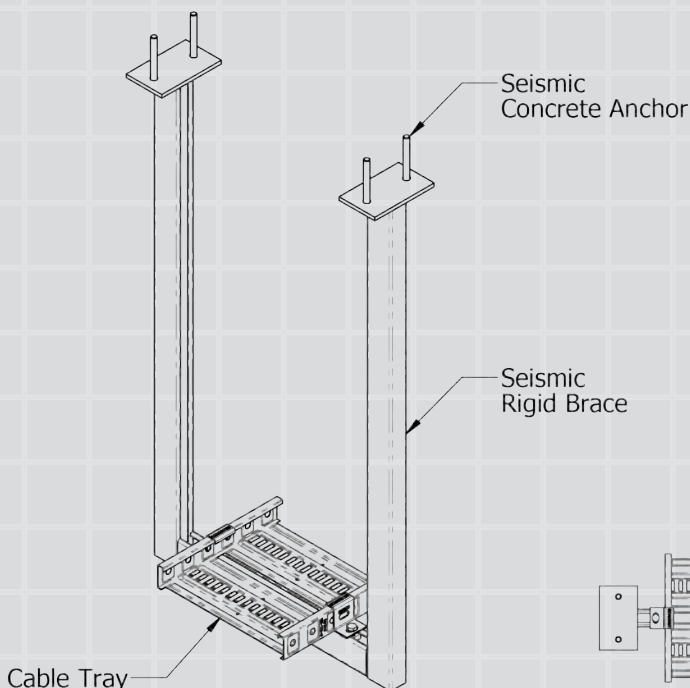
## CABLE BRACING

- Steel cable used as brace, typically at 45° to the cable tray
- Transverse and Longitudinal braces required
- As a guideline, maximum allowable spacing for transverse and longitudinal braces are 9m and 18m respectively
- Opposing pairs are required to resist seismic loads from both directions, this is known as '2-way' brace
- An alternative to using '2-way' transverse and longitudinal braces, is to use a '4-way' brace at each seismic restraint location for uniformity
- Threaded rod stiffeners may be required
- Cable bracing is generally more economical than rigid bracing

### 4-WAY CABLE BRACE EXAMPLE

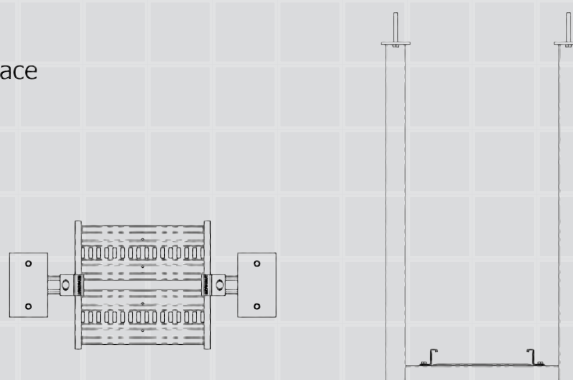


### RIGID SEISMIC BRACE EXAMPLE



## RIGID BRACING

- Rigid 'U-hanger' that is typically made of welded strut sections
- Each brace resists transverse and longitudinal loads
- Contained within the envelope of the cable tray run
- Preferred on sites with high traffic of services which would likely interfere with cable bracing





## SEISMIC ACTIVITY IN AUSTRALIA

It is estimated that at least one magnitude five or above earthquake strikes somewhere in Australia's earthquake zones every year, but of course it's hard to predict just when and where that's going to happen. While many occur in remote locations, according to Geosciences Australia, it is only a matter of time before another one occurs in a highly populated area. Therefore, it is important to ensure new buildings are able to withstand catastrophic damage. Further, if a building design must meet Seismic BCA it is equally important to ensure the sub services can withstand the event without collapse or failure whilst crucial services are maintained.

Calculation of seismic loads requires information on certain parameters that are based on site conditions, building design and the cable support system design. These parameters are:

- » Importance level of structure
- » Annual probability of exceedance OR Probability factor ( $K_p$ )
- » Hazard factor ( $Z$ )
- » Soil class
- » Total height of structure
- » Maximum height above ground where cable tray is installed
- » Type of cable tray used (For example, ET3)
- » Applied loading on cable tray
- » Type of trapeze used
- » Trapeze span
- » Surface to which seismic bracing is fixed

## IN-HOUSE ENGINEERING

The experienced engineers at EzyStrut have the ability to deliver customised cable and pipe support solutions at competitive prices. EzyStrut maintains an extensive shelf range of products complying with the relevant industry standards.

## ADELAIDE BASED MANUFACTURING

EzyStrut manufactures one of the most diverse range of cable and pipe support solutions in the industry, suitable for almost any application and in a variety of finishes. EzyStrut is the only major Australian owned cable support company to truly manufacture most products in-house.

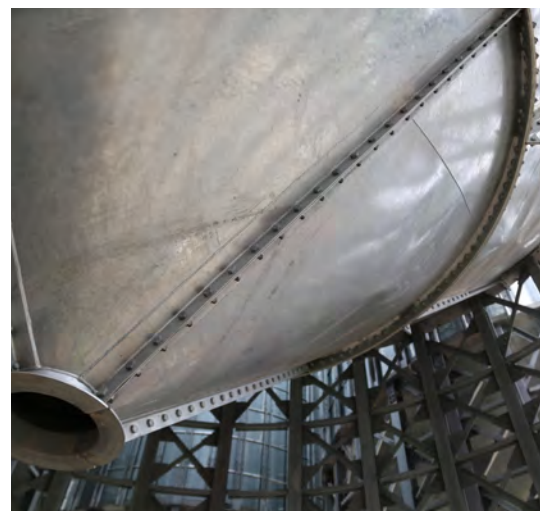
## DISTRIBUTION NETWORK

In addition to EzyStrut's manufacturing plant and national distribution centre in Adelaide, we have sales offices and warehouses located in Adelaide, Melbourne, Sydney, Brisbane and Perth with distributors in Darwin, Townsville and Hobart. We also have an international distributor located in New Zealand.

EzyStrut products can be found in numerous iconic projects, including commercial constructions, hospitals, mine sites, tunnels, power stations and more.

## CUSTOM, COST EFFECTIVE SOLUTIONS

EzyStrut take on the big challenges that others have avoided, simply by listening to clients and providing them with the most appropriate and cost effective solutions. EzyStrut's track record of performance is proven by an extensive project portfolio, which is tried and tested across a countless quantity of high profile, iconic projects around Australia and the globe.





## **EzyStrut**

**Cable & Pipe Supports**

# **WE DELIVER**

### **SOUTH AUSTRALIA — HEAD OFFICE**

580 Prospect Road  
Kilburn, South Australia, 5084  
**Tel:** 08 8360 4550 **Fax:** 08 8360 4590  
**Email:** sa.sales@ezystrut.com.au

### **NEW SOUTH WALES**

Lot 304 Progress Circuit  
Prestons, New South Wales, 2170  
**Tel:** 02 8783 7555 **Fax:** 02 8783 7666  
**Email:** nsw.sales@ezystrut.com.au

### **VICTORIA**

5/131 Calarco Drive  
Derrimut, Victoria, 3026  
**Tel:** 03 8368 7555 **Fax:** 03 8368 7599  
**Email:** vic.sales@ezystrut.com.au

### **WESTERN AUSTRALIA**

12 Vale Street  
Malaga, Western Australia, 6090  
**Tel:** 08 9249 7966 **Fax:** 08 9249 7855  
**Email:** wa.sales@ezystrut.com.au

### **QUEENSLAND**

25 Machinery Street  
Darra, Queensland, 4076  
**Tel:** 07 3259 6844 **Fax:** 07 3259 6855  
**Email:** qld.sales@ezystrut.com.au