

# STEEL WALL FRAMING

STEEL BUILDING FRAME COMPONENTS



A Met-TECH™ GUIDE

MAY 2023

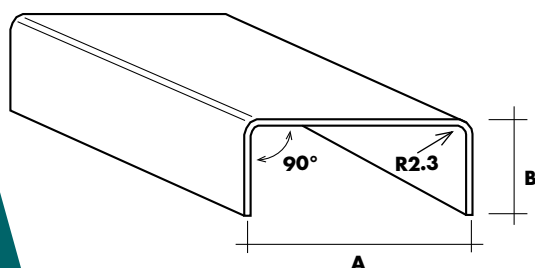


**Metroll**®

BETTER SERVICE • BETTER BUILDING SOLUTIONS

# STEEL WALL FRAMING

Metroll manufacture a range of G500, AM150 Truecore® steel and G500, Z275 Zinalume® steel wall framing sections which may be used alone or in combination with other building materials. These products are suitable for framing in a variety of buildings such as houses, small commercial buildings as well as in partitions and façades.



## FEATURES & BENEFITS

- Design freedom
- Compatible with other building materials
- Long Life & High Strength
- Fire Resistant
- Straight & True - won't twist or warp
- Conforms with AS 1397-1977 & AS/NZS 4600

## STUD FRAMING

SECTION	DIMENSIONS mm		BMT mm
	A	B	
Standard Plate	77	34	1.15
Standard Stud	75	35	1.15
Standard Noggin	72	36	1.15

Tolerance  $\pm 1$  mm

## 75 x 35 x 1.15 STUD CENTRES (MM)

STUD HEIGHT	NO. OF NOGGINS	N1	N2	N3	N4	C1	C2	C3
2450	0	600	430	280	180	190	130	90
	1	600	600	600	480	500	340	230
2750	0	410	300	190	130	130	90	60
	1	600	600	480	320	340	220	150
	2	600	600	600	490	510	340	230
3000	0	310	220	140	90	100	70	40
	1	600	560	350	240	250	170	110
	2	600	600	580	390	410	270	180
	3	600	600	600	450	470	320	210
3300	0	230	160	100	70	70	50	NS
	1	560	400	260	170	180	120	80
	2	600	600	440	300	310	210	140
	3	600	600	450	360	380	250	170
3600	0	170	120	80	50	50	NS	NS
	1	410	300	190	130	130	90	60
	2	600	530	340	230	240	160	110
	3	600	600	430	290	300	200	130

## NOTES

1. Noggins to be evenly spaced.
2. Trusses located within 50mm of stud.
3. Truss reaction maximum of 15% of stud compression capacity ( $\phi N_s$ ).
4. Table for external load bearing walls.

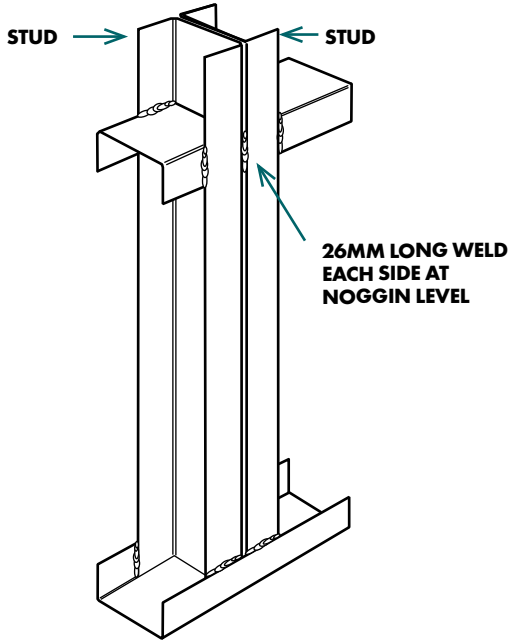
## What is Met-TECH™?

Met-TECH™ is Metroll's Technical Resource Centre. It is the one stop shop for all of Metroll's product and technical information. Perfect for builders, contractors and specifiers to source all the information they may require. You can find other Met-TECH™ items on our website

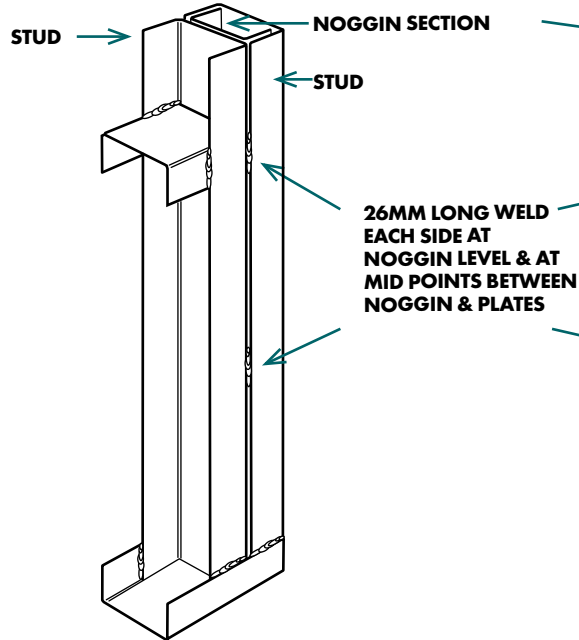
[www.metroll.com.au/resources](http://www.metroll.com.au/resources)

## MULTIPLE STUD ARRANGEMENTS

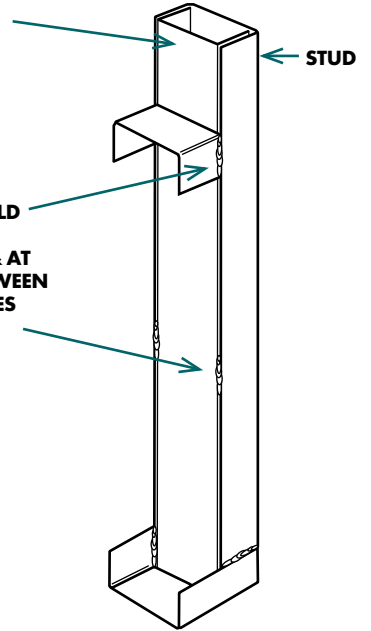
**2 STUDS  
BACK TO BACK  
NOGGIN EACH SIDE**



**3 STUDS  
COMBINATION  
ADJACENT TO OPENING**

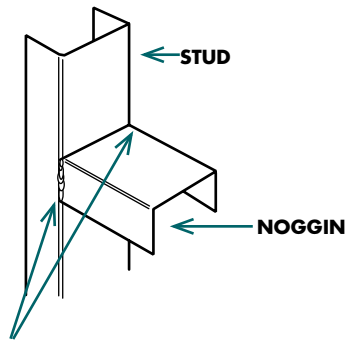


**2 STUDS  
BOXED  
ADJACENT TO OPENING**

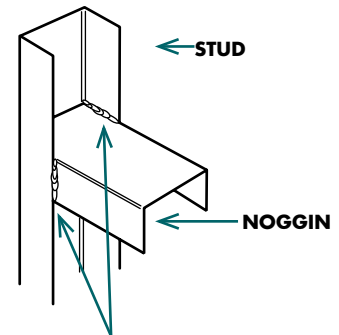


## NOGGIN FIXING

### WELDED FRAMES

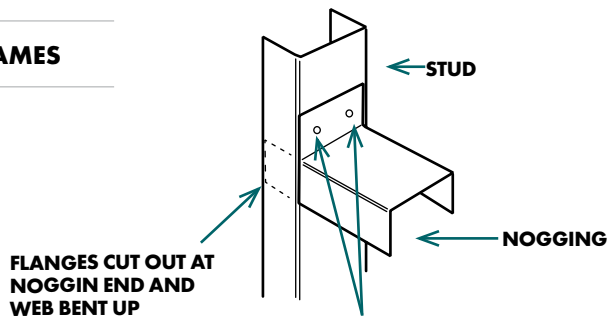


2 x FILLET WELDS 12MM MIN. LENGTH.  
MAY BE INSIDE OR OUTSIDE  
NOGGIN CHANNEL

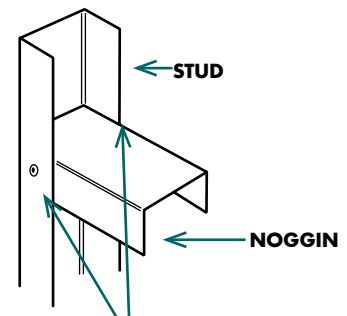


12MM MIN. LENGTH  
WELDS IN TWO PLACES

### NON-WELDED FRAMES

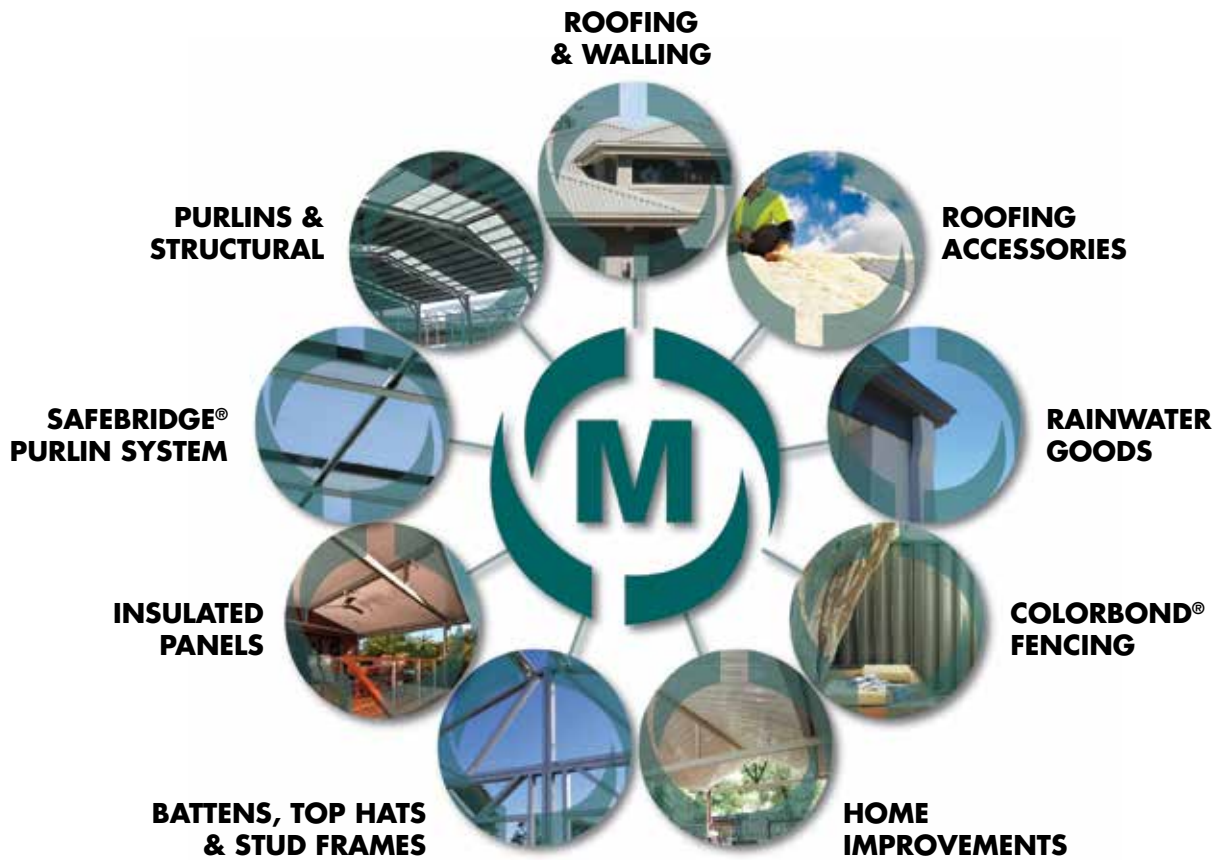


2 x 4.8MM DIA. STEEL  
BLIND RIVETS OR NO.10  
SELF-TAPPING SCREWS



2 x 4.8MM DIA. STEEL BLIND  
RIVETS OR NO.10 WAFER HEAD  
SELF-TAPPING SCREWS. ONE IN  
EACH STUD FLANGE.

Can we assist with any additional  
Steel Building Products?



**QLD**

Cairns 07 4054 0888  
Townsville 07 4779 8266  
Mackay 07 4968 1255  
Rockhampton 07 4920 0900  
Bundaberg 07 4155 5999  
Toowoomba 07 4634 6144  
Sunshine Coast 07 5493 7872  
Brisbane 07 3375 0100

**NSW**

Lismore 02 6622 6677  
Tamworth 02 6765 4799  
Newcastle 02 4954 5799  
Sydney 1300 766 346  
Dubbo 02 6883 4800  
Wagga Wagga 02 5924 4500  
Canberra 02 6298 2777  
Albury 02 6043 6800

**VIC**

Sunshine 03 9480 3744  
Laverton 03 8369 8300  
Geelong 03 5248 2006  
Ballarat 03 5335 6416  
Pakenham 03 8710 9300  
**TAS**  
Hobart 03 6335 8555  
Launceston 03 6335 8555

**SA**

Adelaide 08 8282 3300

**NT**

Darwin 08 8935 9555

**WA**

Kalgoorlie 08 9024 1388  
Perth 08 9365 5444  
Bunbury 08 9796 9796  
Albany 08 9841 6966

**29 Metroll Branches Nationwide**

Visit our website  
[metroll.com.au](http://metroll.com.au)



All reasonable care has been taken in the compilation of the information contained in this brochure. All recommendations on the use of Metroll products are made without guarantee as conditions of use are beyond the control of Metroll. It is the customers responsibility to ensure that the product is fit for its intended purpose and that the actual conditions of use are suitable. Metroll pursues a policy of continuous development and reserves the right to amend specifications without prior notice. The Metroll M and Logo are registered trademarks of Metroll. COLORBOND®, ZINCALUME®, GALVSPAN® steels are all registered trademarks of BlueScope Steel Limited.