



**PATENTED GUARDING SYSTEM**

# SENTRY GUARDING SYSTEM MODULAR SOLUTION

GUARDING SYSTEM | MESH CLAMP BRACKET | SIGN BRACKET  
CONDITION MONITORING GUARD INSERT

[sentryguardingsystem.com.au](http://sentryguardingsystem.com.au)  
PATENT. 2017232163



AS/NZS  
4024.3610/3611



STRENGTH  
TESTED



EASY  
INSTALLATION



MODULAR  
SYSTEM



COST SAVING  
UP TO 30%



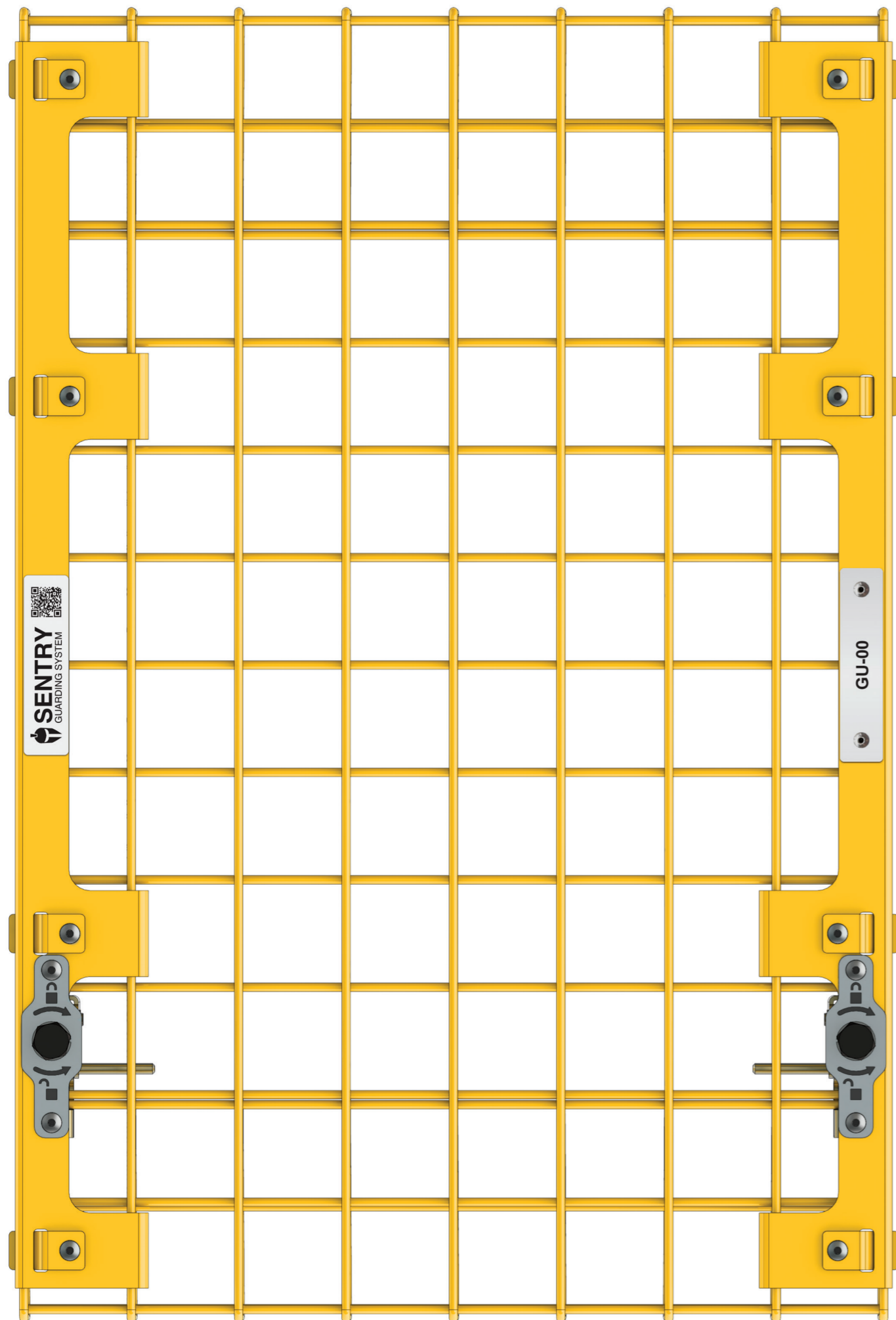
Quality  
ISO 9001



Environment  
ISO 14001



OHS  
ISO 45001



# CONTENTS

INTRODUCTION.....	4
ABOUT SENTRY GUARDING SYSTEM .....	4
MATERIALS .....	4
FINISH OPTIONS .....	4
KEY FEATURES .....	5
DEFLECTION TEST .....	6
BASIC DIMENSIONS & LAYOUT .....	6
GUARDING PANEL HEIGHT CONFIGURATIONS.....	6
SENTRY GUARDING PANEL.....	7
SENTRY GUARDING PANEL SIZE.....	7
SIDE BRACKET ORDER PARTS NUMBER.....	8
MESH PANEL .....	8
MESH PANEL SIZE .....	8
MESH ORDER NUMBER .....	8
GUARDING POST .....	9
POST SIZE GUIDE .....	9
POST CONFIGURATION .....	9
POST FIXING OPTIONS.....	9
SENTRY GUARDING ACCESSORIES.....	10
MESH CLAMP BRACKET .....	10
BOLT SIGN BRACKET .....	10
RIVET SIGN BRACKET .....	10
CONDITION MONITORING GUARD INSERT .....	11





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# INTRODUCTION

## About Sentry Guarding System

Sentry Guarding System by CADDs Group is a cost effective, smart, modular guarding system that is safe and easy to install.

Our design is compliant with AS/NZS 4024.3610/3611. Sentry Guarding System has removed the need for welding on site and has a simple latch release for safe removal. The custom side brackets easily fix to standard 50x50x4mm mesh panels using a hook and lock system. Other than mesh, we can also provide custom perforated sheets in any material, including high impact acrylic sheets up to 4mm thick.

The panels connect to posts or other support structures in a method that is simple, efficient, requires no hot work on site and results in significantly reduced fabrication cost. Panels come in 1200, 900 and 600mm heights, maximum width up to 2.1m for 1200 panels and weighs under 18kgs.

- Note:
1. All dimensions are in mm unless noted otherwise
  2. 3D models can be downloaded at [www.sentryguardingsystem.com.au](http://www.sentryguardingsystem.com.au)

### Material Specification

- Guarding side bracket:** Mild steel / Yellow passivated / Powder coated (UV rated)
- Rivet:** Stainless Steel / Aluminium
- Bolt:** Stainless Steel coated with Armourcote 5700
- Latch:** Stainless Steel 316



**Finishes to your requirements or environment**  
We can supply in any powder coated colour.



**TIME & COST SAVING**  
Compared with traditional guarding systems



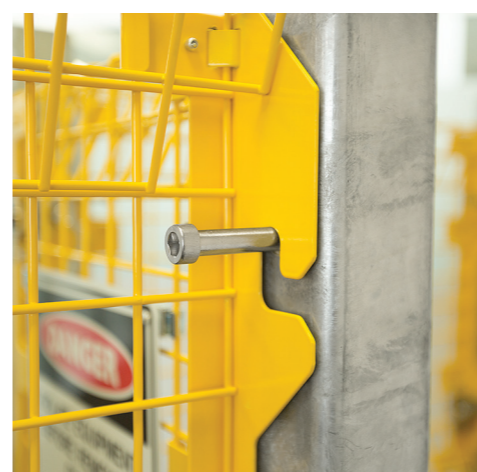
No welding required



Latch system



Tool required for removal as per AS/NZS 4024.3610/3611



Simplified guard posts



Easy installation



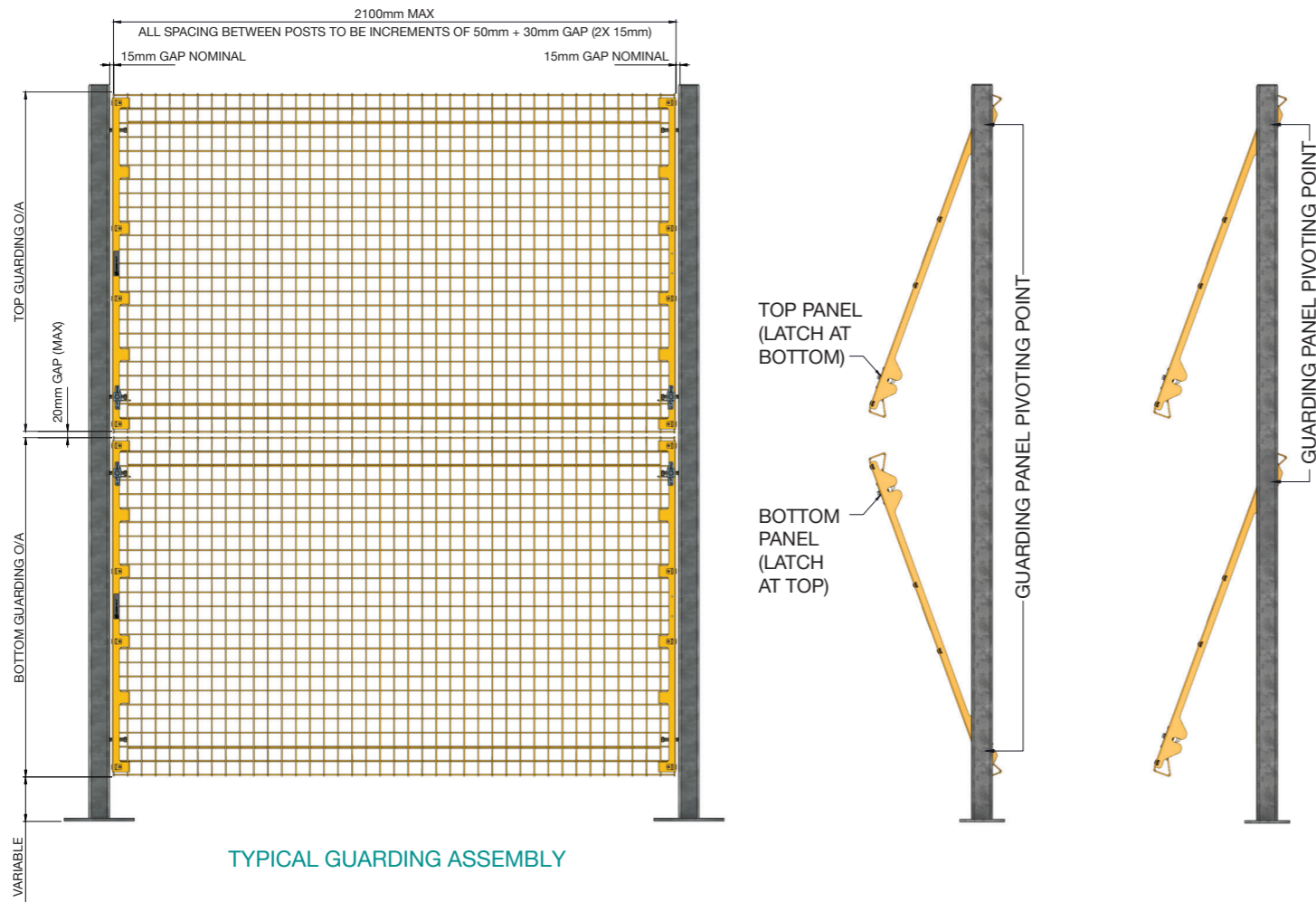
Modular design



### Deflection Test

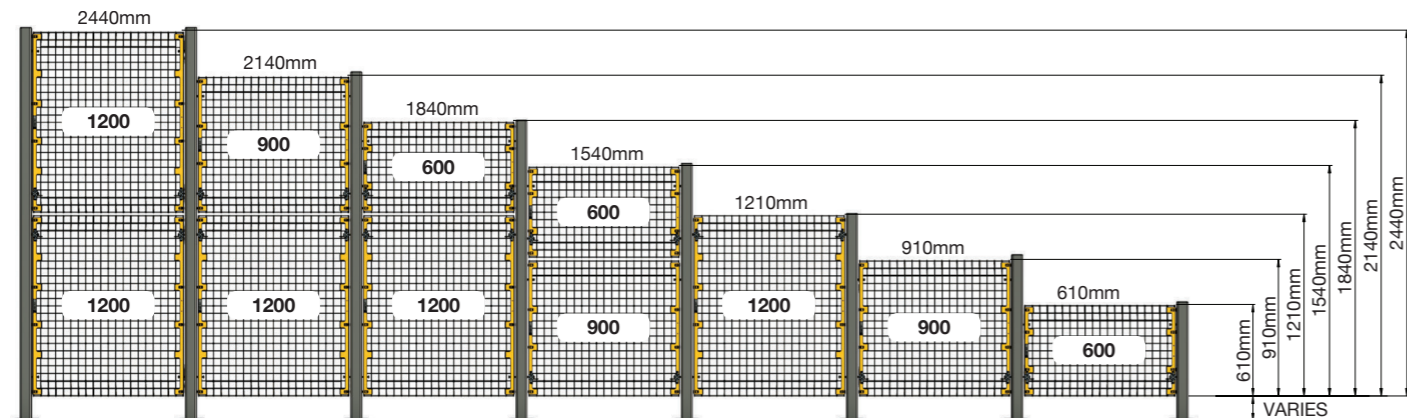
The Sentry Guarding System was tested at an accredited NATA facility as per AS/NZS 4024.3610/3611 and successfully passed the deflection test.

### Basic Dimensions & Layout



### Sentry Guarding Panel Height Configurations

Using a combination of all three bracket heights with a variable bottom clearance (adjustable as required), a maximum Guarding height of approximately 2.6m can be achieved with an increment of 300mm. See below Guarding height with different panel configurations.



## GUARDING PANEL

### Sentry Guarding Panel Size

Guarding side brackets comes in three sizes, 1200, 900 and 600. The 1200 side bracket comes in a top latch and a bottom latch option to enable user to access the locking mechanism in high guarding situations. The 900 and 600 brackets are both equipped with a bottom latch mechanism. Special order for 900 side brackets, with top latch, is also available but may incur additional cost.

**600**

2100mm MAX (MESH) INCREMENTS OF 50mm

610mm

**ELEVATION ON 600 GUARDING PANEL**

70mm O/A

350mm

115mm

**600 BOTTOM LATCH BRACKET**

**900**

2100mm MAX (MESH) INCREMENTS OF 50mm

910mm

**ELEVATION ON 900 GUARDING PANEL**

70mm O/A

650mm

115mm

**900 BOTTOM LATCH BRACKET**

**1200**

2100mm MAX (MESH) INCREMENTS OF 50mm

1210mm

**ELEVATION ON 1200 GUARDING PANEL**

70mm O/A

950mm

115mm

**1200 BOTTOM LATCH BRACKET**

70mm O/A

950mm

115mm

**1200 TOP LATCH BRACKET**

15mm MIN

2.5mm CLEAR

ø 12mm PIN

**TYPICAL PIN & BRACKET CLEARANCE**

SIDE BRACKET WEIGHT		
BRACKET	LHS	RHS
600	0.8kg	0.8kg
900	1.0kg	1.0kg
1200	1.3kg	1.3kg

GUARDING PANEL APPROX. WEIGHT			
PANEL WIDTH	600	900	1200
500mm	4kg	5kg	6kg
1000mm	6kg	7kg	9kg
1500mm	8kg	10kg	12kg
2000mm	10kg	12kg	15kg

EXCLUDING PAINT FINISH

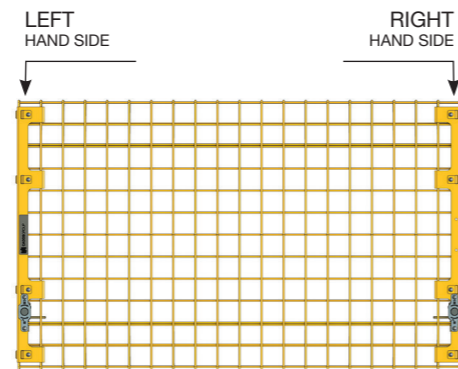


## Side Bracket Order Parts Number

The part number below will specify bracket pair size and latch position. Individual parts can be ordered separately.

Guarding Bracket Description	Part No.
600 Side Bracket Pair - (bottom latch)	SGS_BL_600_PR
900 Side Bracket Pair - (bottom latch)	SGS_BL_900_PR
1200 Side Bracket Pair - (bottom latch)	SGS_BL_1200_PR
1200 Side Bracket Pair - (top latch)	SGS_TL_1200_PR
*900 Side Bracket Pair - (top latch)	SGS_TL_900_PR

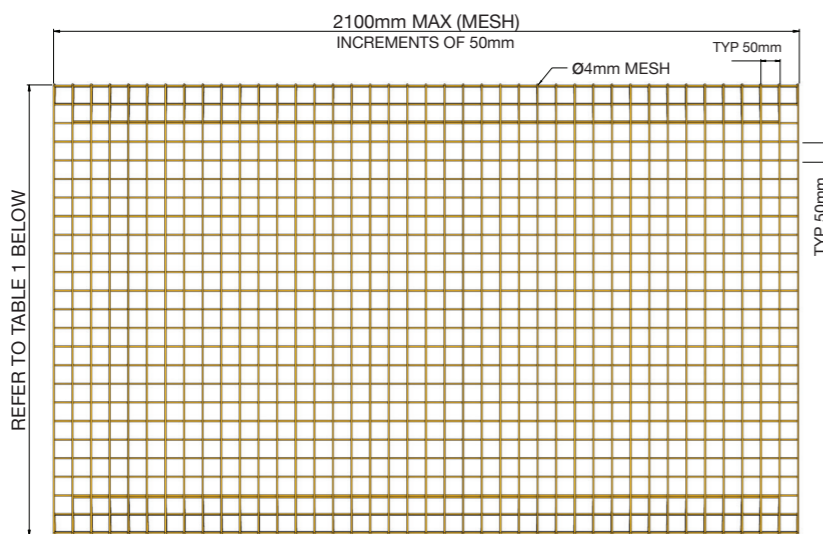
\*Special order only



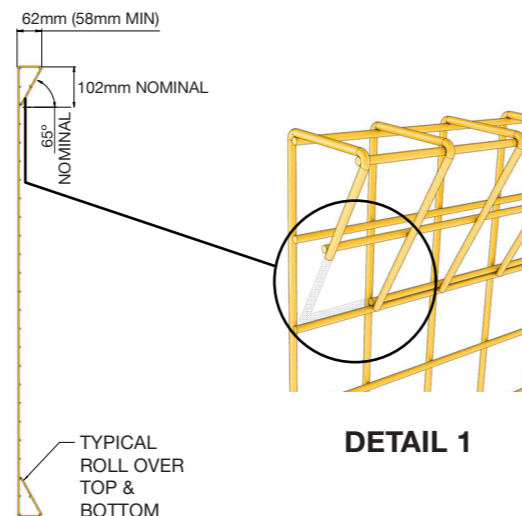
## MESH PANEL

### Mesh Panel Size

Sentry Guarding System only works with 50x50x4mm mesh panel. Mesh width should be cut at 50mm increments to ensure side brackets can be installed. All four corners must be cut prior to being folded to avoid latch interference, refer to **DETAIL 1** below. Top and bottom ends must be bent over to add strength to the panel.



PRE-BENT FULL SIZE PANELS ARE AVAILABLE UP TO 2.1m. PANELS ARE AVAILABLE IN FINISHES LISTED BELOW.



## Mesh Order Number

Use code below to order mesh panels.

**SGS\_MSP\_12\_2100\_C3**

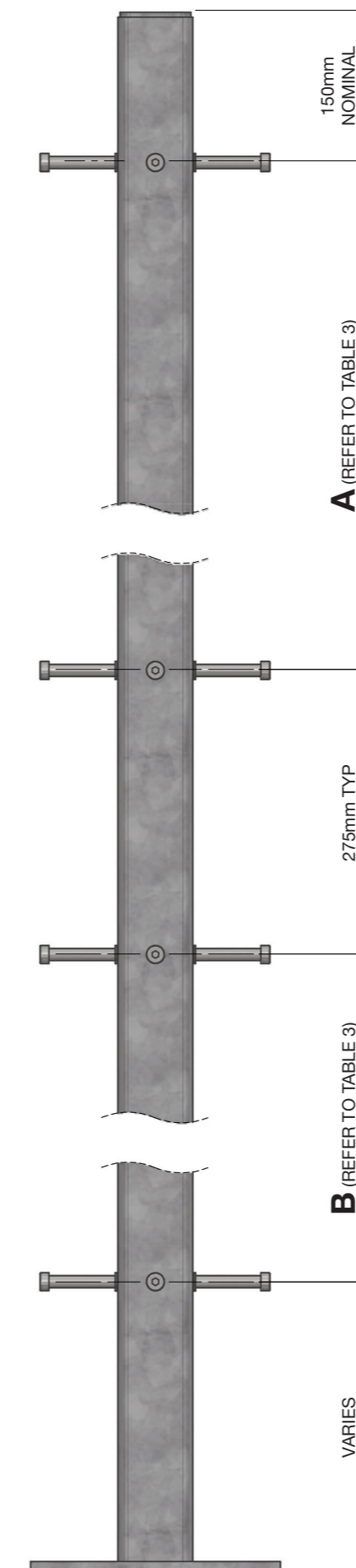
**MESH HEIGHT:**  
1210mm = 12  
910mm = 9  
610mm = 6

**MESH WIDTH:**  
WIDTH IN 50mm  
INCREMENTS

**FINISH:**  
3 COAT SYSTEM = C3  
1 COAT SYSTEM = C1  
POWDER COATED (UV RATED) = PC  
GALVANISED = GV

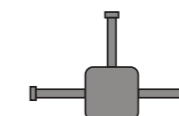
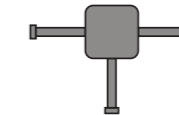
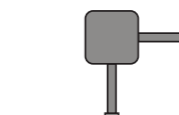
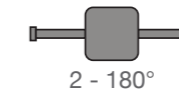
BRACKET HEIGHT	MESH HEIGHT
1180mm	1210mm
880mm	910mm
580mm	610mm

## GUARDING POST Post Size Guide



### Post Configuration

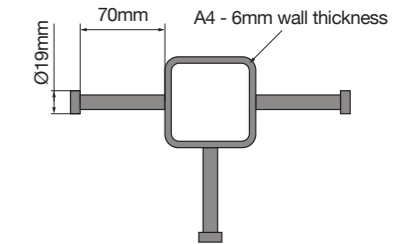
Posts can be set up in different configurations to suit a variety of guarding layouts. See available options below.



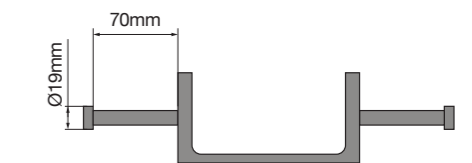
### Post Fixing Options

Guarding posts can be designed / fabricated out of SHS, PFC or EA.

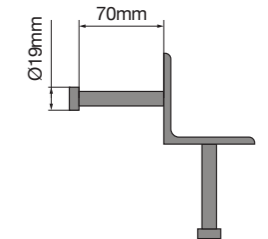
#### SHS with Mild Steel Shear Stud Connector (MIN 75SHS)



#### PFC with Mild Steel Shear Stud Connector (Min 150PFC)



#### EA with Mild Steel Shear Stud Connector (Min 75EA)



### SHOULDER BOLT TYPES

Preferred Option (shown above) - Mild Steel Shear Stud Connector

Option 2 - Stainless Steel Shoulder Bolt M10

TABLE 3

PANEL CONFIGURATION	PANEL HEIGHT	A	B
1200-1200	1210-1210	950	950
1200-900	1210-910	950	650
900-1200	910-1210	650	950
1200-600	1210-610	950	350
600-1200	610-1210	350	950
900-600	910-610	650	350
600-900	610-910	350	650
900-900	910-910	650	650
600-600	610-610	350	350
1200	1210	950	n/a
900	910	650	n/a
600	610	350	n/a



## GUARDING ACCESSORIES

Refer to instruction manual for details



### Mesh Clamp Bracket

Part Number: **SGS\_MCB\_001**  
Material: Mild Steel  
Finish: Nickel Plated



### Bolt Sign Bracket

Part Number: **SGS\_BSB\_001**  
Material: Mild Steel  
Finish: Nickel Plated



### Rivet Sign Bracket

Part Number: **SGS\_RSB\_001**  
Material: Mild Steel  
Finish: Nickel Plated

## Mesh Clamp Bracket

Do you have problems with non-compliant and weakened guarding due to inspection openings, maintenance / repairs / extension requirements, or other penetrations in the mesh?

The Mesh Clamp Bracket is your safe, fast and cost effective solution.

The Mesh Clamp Brackets clamp infill sections or extensions to the guarding panel, allowing openings in the mesh to be closed on site, or extensions to be added, all with no welding. The clamp secures the mesh and strengthens the panel - no hot works, no cost of re-fabrication, less repair time, all Australian Standard compliant.



Cost effective method

Retrofit or extension mesh sections

No welding required

## Sign Bracket

Fix anything you need to mesh guarding; quickly and safely.

Whether you are providing signage restricting access, alerting to hazards, providing directions, or fixing anything to a guarding panel, Sign Brackets are designed to simply and securely clip whatever you're fastening directly onto the mesh.

Sign Brackets - the fast, safe and Australian Standard compliant option.



Clip-on brackets

Suits all sign sizes

Secure with rivets or bolts

## Condition Monitoring Guard Insert

Part Number: **SGS\_CMG\_001** - Square option

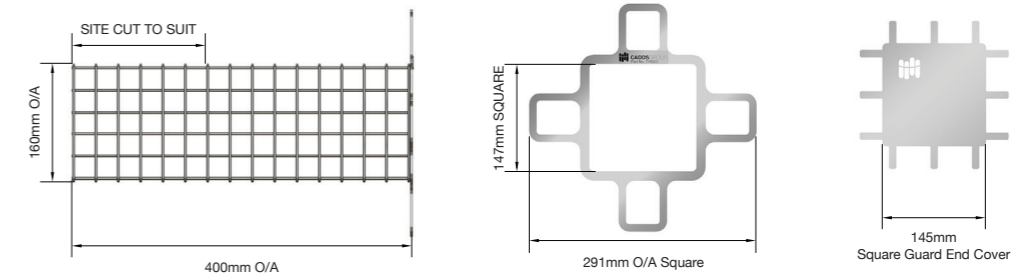
Part Number: **SGS\_CMG\_002** - Round option

The physical barrier between the human hand and machinery.

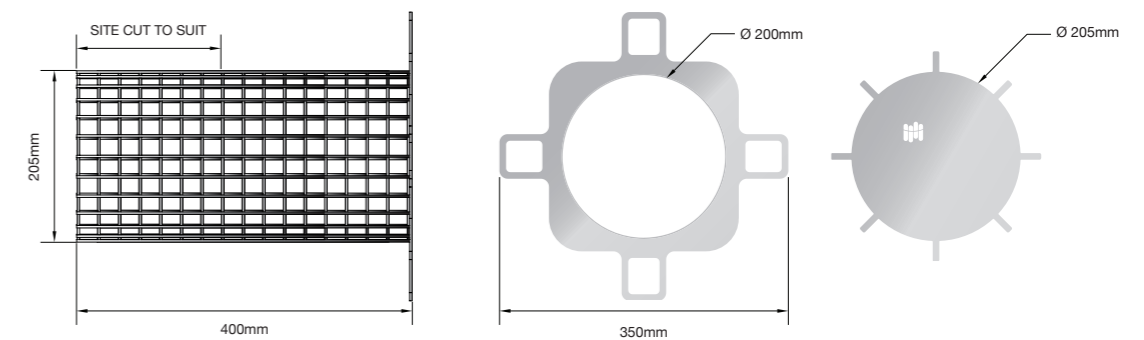
The Condition Monitoring Guard Insert provides a safer way for workers to do their periodic inspection by providing a physical barrier between the human hand and machinery. A Guard End Cover is also provided for side access monitoring points.

The Condition Monitoring Guard Insert set includes 1x CMG Insert (25x25x3mm mesh), 4x Mesh Clamp Brackets and 1x Guard End Cover (for side access).

### Square option

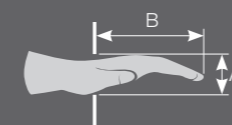


### Round option

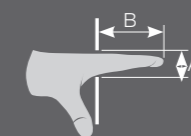


### Opening Guide

As per AS/NZS 4024.3610/3611

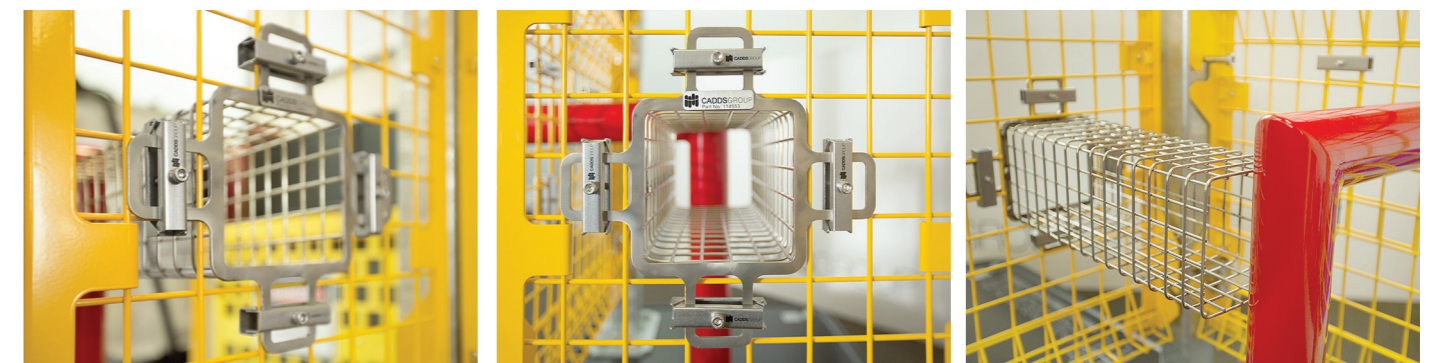


Opening (A) mm	Distance (B) mm		
	Slot	Square	Round
6 < A ≤ 8	≥ 20	≥ 15	≥ 5
8 < A ≤ 10	≥ 80	≥ 25	≥ 20
10 < A ≤ 12	≥ 100	≥ 80	≥ 80
12 < A ≤ 20	≥ 120	≥ 120	≥ 120



Opening (A) mm	Distance (B) mm		
	Slot	Square	Round
20 < A ≤ 30	≥ 850*	≥ 120	≥ 120

\* If the length of the slot opening is less than or equal to 65mm, the thumb will act as a stop and safety distance can be reduced to 200mm.



CMG Insert secured with Mesh Clamp

Access opening of CMG Insert

Guarded monitoring point



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