

EDGE PROTECTION CLAMP

User's Manual



## **Applications**

- Slab edge protection
- Formwork edge protection
- Stair edge protection
- Void edge protection/opening in flooring
- Edge protection for use on structural steel/oil & gas
- Edge protection for mining industry

## **Limitations**

- Not designed to be used as edge protection for sloping roofs
- Minimum clamping thickness :- 90mm
- Maximum clamping thickness :- 600mm
- Minimum clamping area/width :- 300mm
- Maximum distance between clamps :- 3000mm

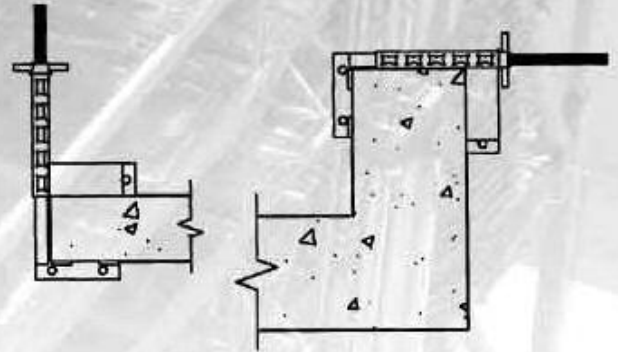
## **Infill Options**

- Top, mid and bottom rails using scaffold tubes with maximum centers of 450mm
- Top and mid rails using scaffold tubes, with toe board used in place of bottom rail
- Top and bottom rails using scaffold tubes, with a brick guard infill panel
- Use structural infill panel only, span between brackets may be limited by design parameters of panel

Edge Protection Clamps comply with the requirements of AS/NZS 4994.1 appendix A & B

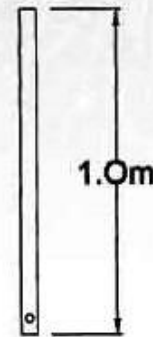
**1. EDGE PROTECTION CLAMP 6.8kg**

MANUFACTURED FROM STEEL SECTIONS AND THREADED ADJUSTABLE JACK. CLAMP CAN FIT INTO SLABS OR SECTIONS FROM 90-600mm THICK. CLAMP CAN BE ORIENTATED AS PER DIAGRAMS



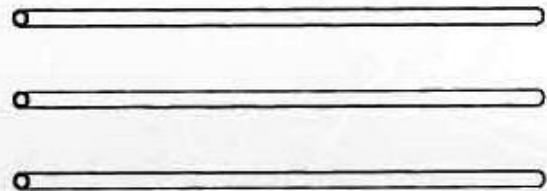
**2. HANDRAIL POST**

LENGTH OF 1.0m 48.4 x 4mm GALVANIZED SCAFFOLD TUBE. WITH Ø12mm LOCATION HOLES



**3. TOP/MID AND BOTTOM RAILS**

LENGTH RANGE FROM 2m-6m OF 48.4 x 4 GALVANIZED SCAFFOLD TUBE



**4. DOUBLE COUPLERS**

FIXED COUPLER AT 90° FOR CLAMPING TOP/MID AND BOTTOM RAILS TO HANDRAIL POST



**5. BOLT AND NUT**

M12 x 100 LONG HALF THREADED USED TO FIX HANDRAIL POST TO MULTI CLAMP



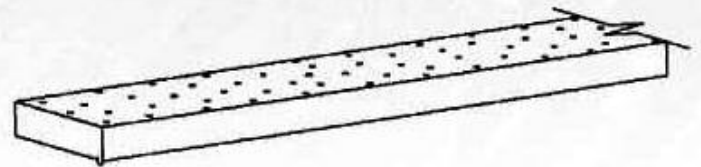
**6. SLEEVE COUPLER**

USE SLEEVE COUPLER TO JOIN HORIZONTAL  
HAND RAILS



**7. TOEBOARD**

TOEBOARD TO BE A MINIMUM OF  
150mm HIGH



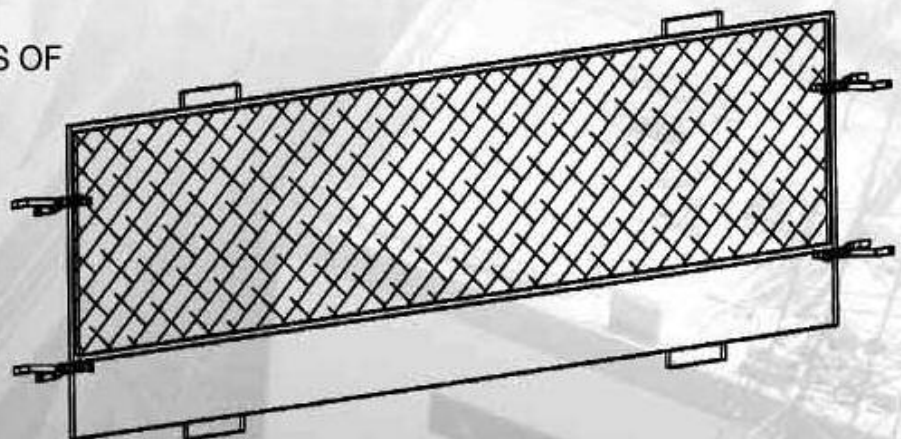
**8. TOEBOARD BRACKET**

THIS BRACKET BY MEANS OF CAPTIVE  
WEDGE CLAMPS TO THE VERTICLE POST  
TO HOLD THE TOEBOARD VERTICAL

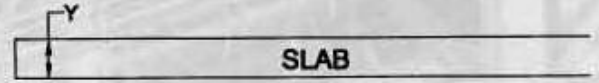


**9. INFILL PANEL / MESH PANEL**

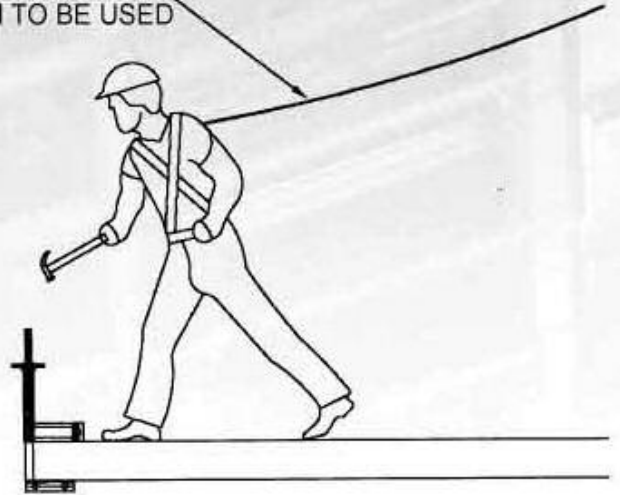
BRICKGUARD PANEL CONSISTS OF  
RHS AND MESH WITH BUILT IN  
TOEBOARD AND LOCATING  
CLAMPS FOR FIXING TO  
HANDRAIL POST



**STEP 1.0:** ADJUST CLAMP TO REQUIRED THICKNESS WITH AN EXTRA 20mm FOR ADJUSTMENT

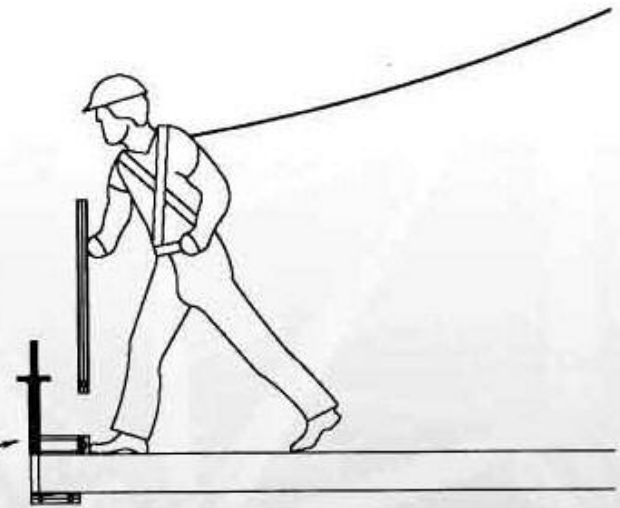
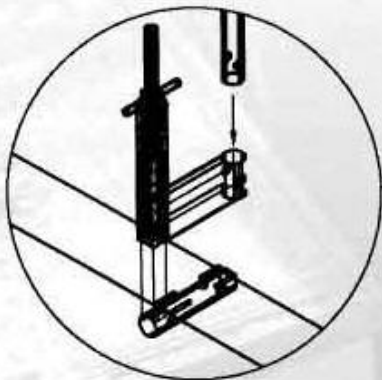


FALL RESTRAINT SYSTEM TO BE USED

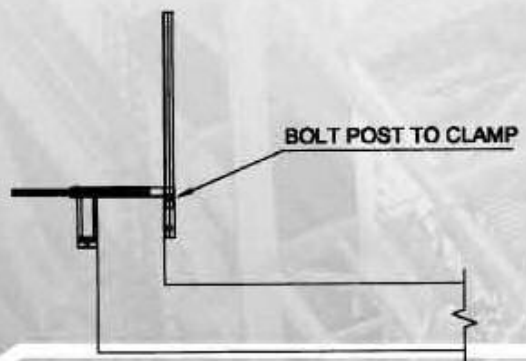


**STEP 2.0:** SLIDE CLAMP INTO POSITION & HAMMER TIGHTEN THE NUT, ENSURE THE INSTALLER IS ATTACHED WITH FALL RESTRAINT SYSTEM

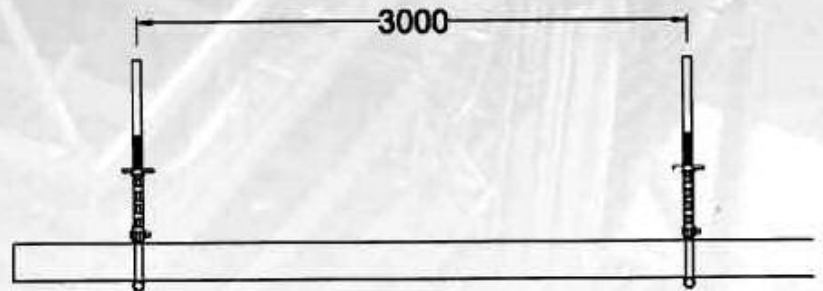
**STEP 3.0:** INSTALL VERTICAL HANDRAIL POST (SCAFFOLD TUBE) 1.0m LENGTH



**STEP 3.1:** BOLT HANDRAIL POST TO CLAMP

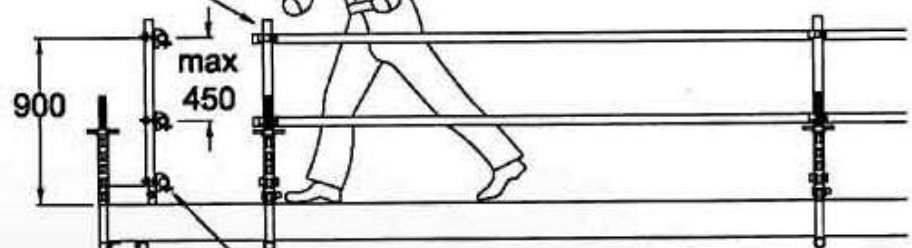
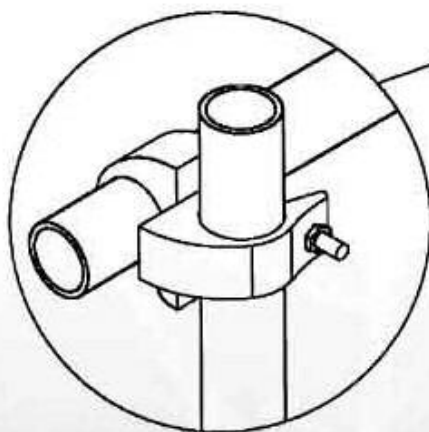


**STEP 4.0:** REPEAT STEPS 1-3 WITH A MAXIMUM SPACING OF 3m BETWEEN CLAMPS

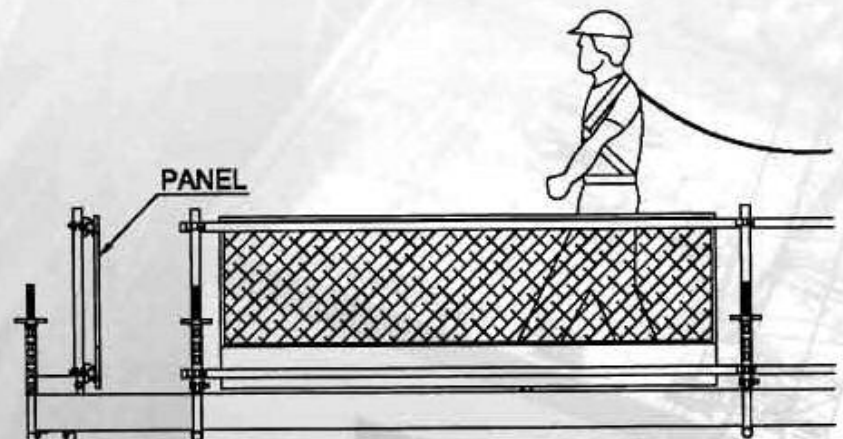


\* SEE NOTE ON INFILL OPTION

**STEP 5.0:** FIX TOP & MID RAIL TO VERTICAL POST WITH DOUBLE COUPLERS AT CENTRES

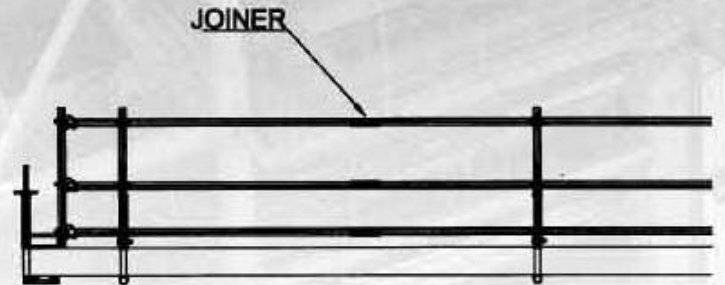


**BOTTOM TUBE CAN BE REPLACED WITH A TOEBOARD & TOEBOARD CLAMP**

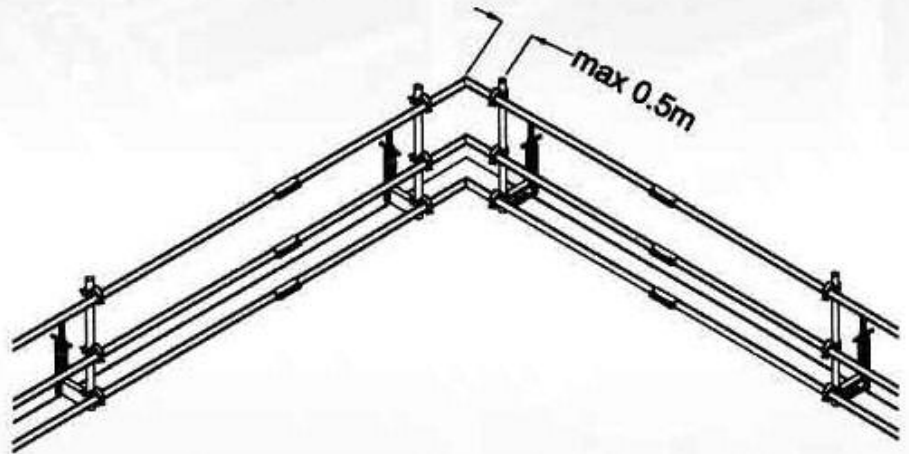


**STEP 5.1:** FIX INFILL (BRICKGUARD) TO VERTICAL POST IF REQUIRED

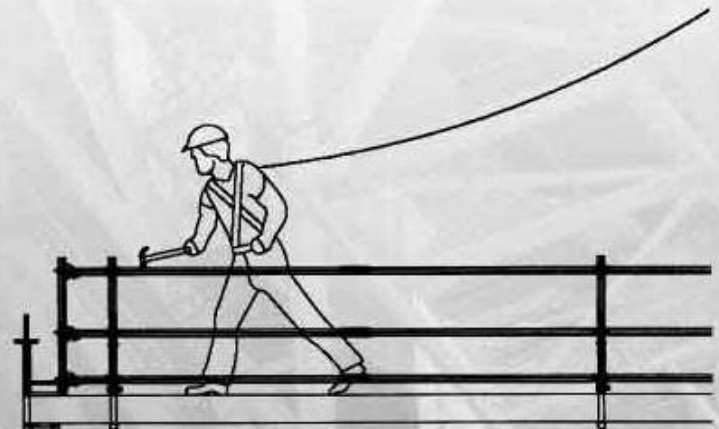
**STEP 6.0:** ENSURE AN EXTERNAL SLEEVE COUPLER IS USED TO JOIN HANDRAIL TUBE WHERE REQUIRED



**STEP 7.0:** REPEAT STEP 1-6 FOR ADDITIONAL BAYS



**STEP 8.0:** ENSURE A CLAMP IS AT CORNERS HORIZONTAL HANDRAIL TUBES CAN CANTILEVER MAX 0.5m PAST THE VERTICAL POST



**STEP 9.0:** FINAL CHECK ON ALL CLAMPS TO ENSURE THEY ARE TIGHTENED

## **Dismantling Procedure :-**

- Ensure guard rail area is free from all loose materials before commencing dismantling procedure
- Ensure the erectors are secured by a fall restraint system
- Remove horizontal handrails/brickguards and store in a safe area
- Remove vertical posts and store in a safe area
- Remove safety clamp by loosening the nut and sliding away from its location

## **Disclaimer :-**

- Information given in this user guide relates solely to equipment supplied by listed distributors

## **Notes :-**

- If variations occur in the basic layout, a person competent in the application of this system should be consulted
- Erection and dismantling procedures and this system complies with the requirements of AS/NZS 4994.1 Appendix A & B
- Manufactured by Sorrel Corporation Sdn Bhd
- Patent pending



