



- Notes:
1. Safety wire to be 2mm galvanised soft annealed mild steel wire. Use a minimum of four twists within 40mm each end to develop full wire strength.
 2. Alternatively use load rated wire and clamps.
 3. Loads on the ceiling grid must not exceed those allowed by the ceiling manufacturer.
 4. Fixing of safety wires to light fixtures and cushion head boxes shall be in accordance with the diagram above except as follows:
 - Where light fixtures and cushion boxes are supported and braced independently of the ceiling then safety wires are not required;
 - Where the ceiling grid has been specifically designed to provide vertical and lateral restraint to the light fixtures and cushion head boxes and fixings are provided to transmit the seismic force from the lights and boxes to the ceiling grid then safety wires are not required.

Figure: Plan of recessed lights in T-bar ceiling showing safety wire requirements.
Source: FEMA E-74, January 2011, Reducing the Risks of Nonstructural Earthquake Damage – A Practical Guide.

NOTE: CEILING HANGERS AND BRACES ARE CONSIDERED TO BE RESTRAINED COMPONENTS FOR THE PURPOSE OF THIS TABLE, HENCE 150mm HORIZONTAL CLEARANCE IS REQUIRED BETWEEN CEILING HANGERS AND UNRESTRAINED SERVICES.

Diagram illustrating the components of the mounting bracket assembly:

- M6 U-BOLT
- ALL THREADED ROD (REFER TO TABLE)
- 2-HOLE PLATE (6 x 20 x 90mm)
- UNISTRUT P1000 CHANNEL OR APPROVED EQUIVALENT

HANGER ROD STIFFENING DETAIL



COMPONENT CONNECTION SIZE SCHEDULE							
IL3 BUILDING, Ce SITE SUB-SOIL CLASS, COMPONENT FIXED < 10m ABOVE STRUCTURAL BASE							
ITEM BEING BRACED	MAXIMUM WEIGHT	WIRE ROPE (#)	STEEL ANGLE (x)	GRIPPLE BRACE	UNISTRUT BRACE (x)	ROD HANGER	ANCHOR TO SLAB (MIN. 90mm EDGE DISTANCE, 150mm SPACING) (#)
TRANSVERSE BRACING FOR RECTANGULAR DUCTS UP TO 1300 x 1300mm	80 kgs/m	6mm GALV. 7 x 19 WIRE	50 EA 5.0 up to 2400mm long	GS19	P1000 up to 2400mm long	16mm no stiffener required	POWERS GALVANISED M12 x 75mm BLUE TIP SCREW BOLT OR EQUIVALENT APPROVED
CIRCULAR DUCTWORK UP TO 1500mm DIA.	80 kgs/m	6mm GALV. 7 x 19 WIRE	50 EA 5.0 up to 2400mm long	GS19	P1000 up to 2400mm long	16mm no stiffener required	
MULTIPLE PIPES ON A TRAPEZE	80 kgs/m	6mm GALV. 7 x 19 WIRE	50 EA 5.0 up to 2400mm long	GS19	P1000 up to 2400mm long	16mm no stiffener required	
UNIT & EQUIPMENT (NOT ON A FLEXIBLE MOUNTING)	300 kgs	3mm GALV. 7 x 19 WIRE	50 EA 5.0 up to 4000mm long	GS10	P1000 up to 2700mm long	12mm no stiffener required	

NOTE: x IF USING ANGLES OR UNISTRUT BRACING ENCORE VIBRATION IS NOT TRANSMITTED TO THE STRUCTURE.
 # COMPONENTS SHALL COMPLY WITH A RECOGNISED STANDARD FOR USE IN A SEISMIC BRACING APPLICATION.

**DETAILS SHOWN ON THIS DRAWING
ARE BASED ON FEMA E-74 / JANUARY
2011 REPORT "REDUCING THE RISKS
OF NONSTRUCTURAL EARTHQUAKE
DAMAGE - A PRACTICAL GUIDE".**

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BUILDING RULES

Project	PROPOSED COMMERCIAL DEVELOPMENT 97 KING WILLIAM STREET KENT TOWN
Title	ELECTRICAL SERVICES SIESMIC DETAILS

Architect

ANTHONY DONATO ARCHITECTS

Suite 5/59 Fullarton Road | Kent Town SA 5087
t. 08 8364 6888 | f. 08 8364 5355 | www.adarchitects.com.au

SECON
consulting engineers

456 PULTENEY STREET
ADELAIDE
SOUTH AUSTRALIA 5000

TEL: 08 8223 7800
engineers@secon.net.au
A.B.N. 30 613 300 299
A.C.N. 613 300 299

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