

SUBURBAN BASEMENT SUBSTATIONS

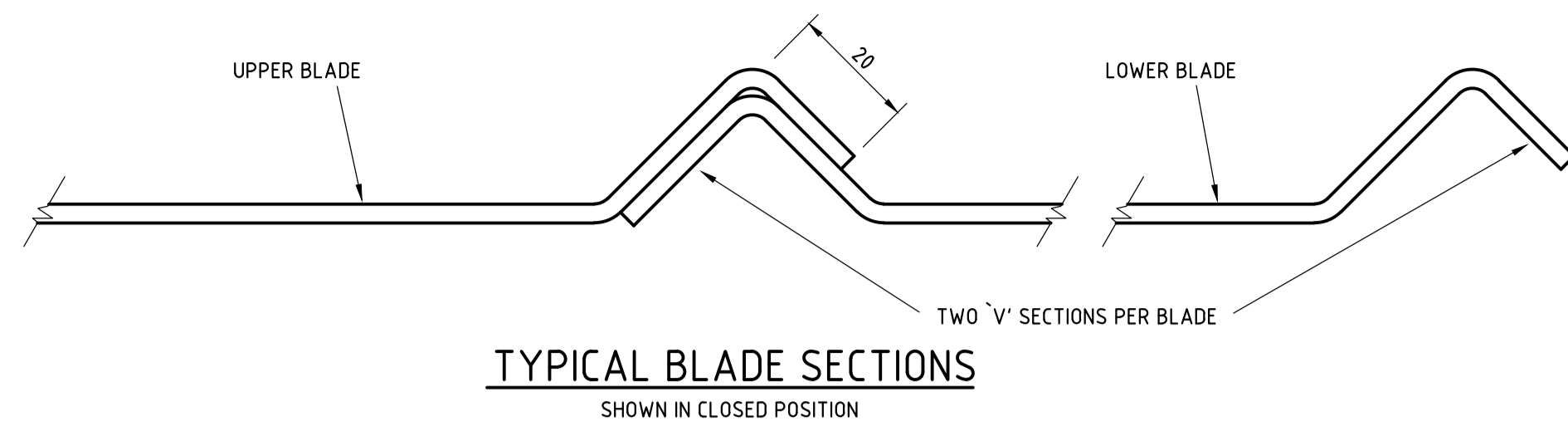
DAMPER TYPE	ONE 1000kVA TRANSFORMER			TWO 1000kVA TRANSFORMERS			THREE 1000kVA TRANSFORMERS			ONE 1500kVA TRANSFORMER			TWO 1500kVA TRANSFORMERS			THREE 1500kVA TRANSFORMERS		
	FREE AREA m <sup>2</sup>	WIDTH	DEPTH	FREE AREA m <sup>2</sup>	WIDTH	DEPTH	FREE AREA m <sup>2</sup>	WIDTH	DEPTH	FREE AREA m <sup>2</sup>	WIDTH	DEPTH	FREE AREA m <sup>2</sup>	WIDTH	DEPTH	FREE AREA m <sup>2</sup>	WIDTH	DEPTH
INLET DAMPER	1.0	1000	1000	1.4	1000	1400	2.0	1000	1400	2.0	1000	1400	2.0	1000	1400	2.8	1000	1400
EXHAUST DAMPER	1.0	1000	1000	1.4	1000	1400	2.0	1000	1400	2.0	1000	1400	2.0	1000	1400	2.8	1000	1400

ALL CBD BASEMENT SUBSTATIONS

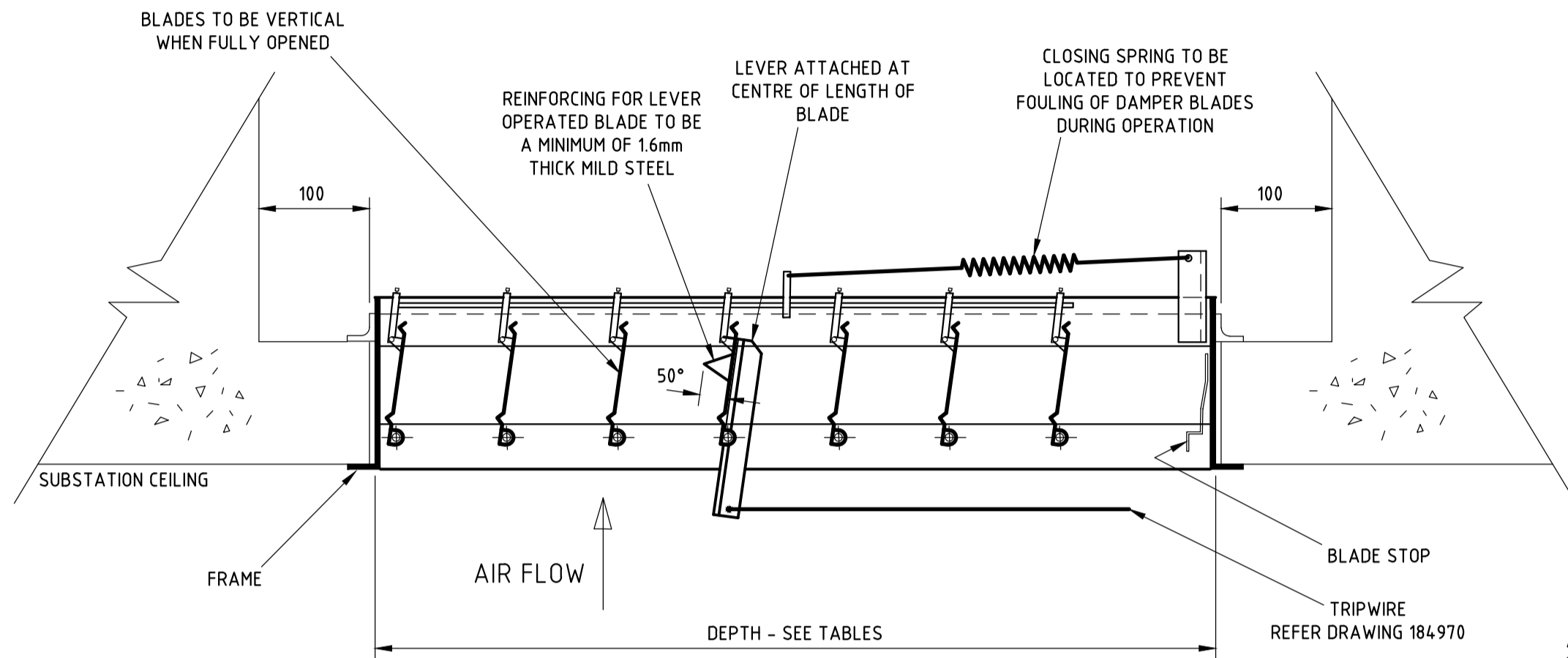
DAMPER TYPE	FREE AREA m <sup>2</sup>	WIDTH	DEPTH
INLET DAMPER	1.3	1000	1300
EXHAUST DAMPER	SUPPLIED AS PART OF THE FAN		

ALL CONTROL POINT OR HVC CHAMBERS

DAMPER TYPE	FREE AREA m <sup>2</sup>	WIDTH	DEPTH
INLET DAMPER	0.5	1000	500
EXHAUST DAMPER	SUPPLIED AS PART OF THE FAN		

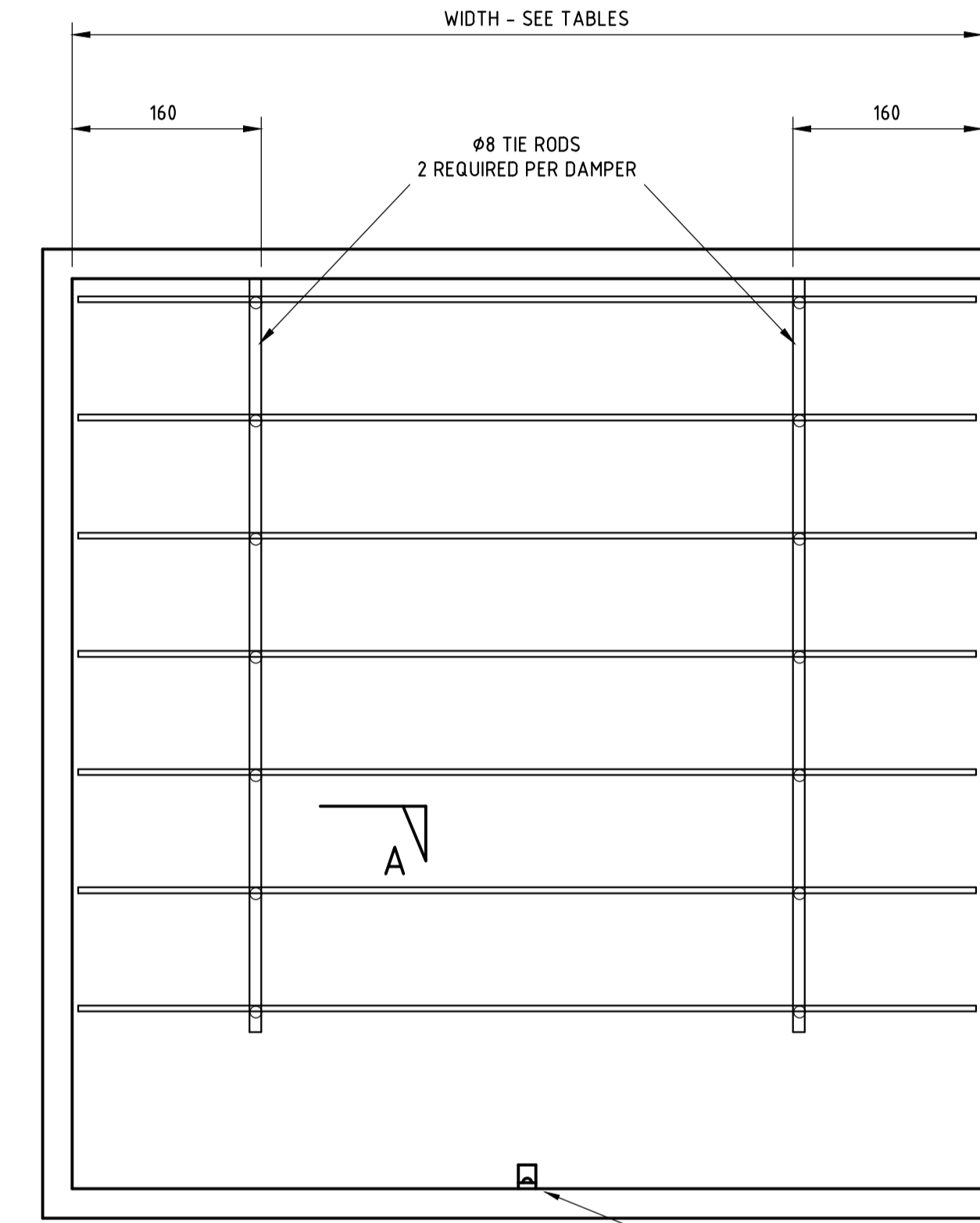


TYPICAL BLADE SECTIONS  
SHOWN IN CLOSED POSITION



CEILING MOUNTED EXHAUST DAMPER  
NOTE: BLADE LOCKING SPRING CLIPS ARE NOT REQUIRED

TO ALLOW FOR EXPANSION OF DAMPER, ANGLE SURROUND SHALL BE FIXED TO FRAME OF DAMPER ONLY WITH M6 BOLTS SPACED AT APPROXIMATELY 330mm. DO NOT RIVET ANGLE SURROUND TO DAMPER OR BOLT DAMPER TO MASONRY



FRONT ELEVATION OF DAMPER  
BLADES SHOWN OPEN

NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH NETWORK STANDARD 113.
- THE DAMPER OPENING SHALL HAVE AN ASPECT RATIO OF DEPTH TO WIDTH OF NOT MORE THAN 4:1 WITH A MAXIMUM DEPTH OF 1400mm.
- DAMPER BLADES ARE TO BE FITTED WITH BRONZE BEARINGS INCORPORATING A SELF ALIGNING CHARACTERISTIC OR ROUND SHAFT MOUNTED TO HAT SECTION FRAME.
- ALL SHARP EDGES MUST BE REMOVED.
- DAMPERS MUST NOT BE GROUTED INTO THE WALL OPENING, A 5mm CLEARANCE MUST BE LEFT ALL ROUND BETWEEN THE WALL OPENING AND THE FRAME.
- THE WIDTH OF DAMPERS SHALL NOT EXCEED 1000mm.

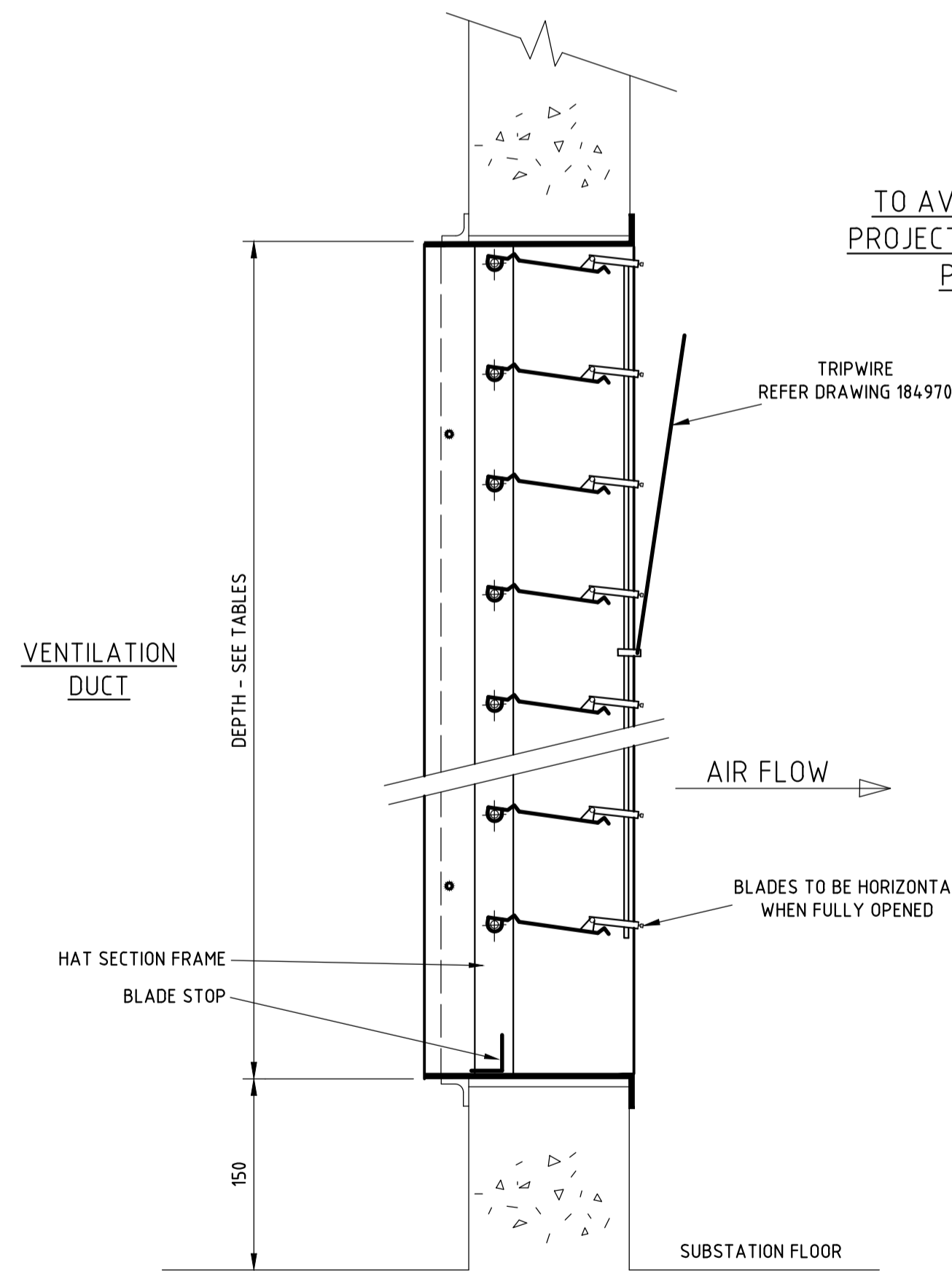
MATERIAL

DAMPER FRAME - MINIMUM 2.5mm THICK "ZINCANNEAL"  
DAMPER BLADES - MINIMUM 1.6mm THICK "ZINCANNEAL"

REFERENCE DRAWINGS

BASEMENT SUBSTATION FIRE PROTECTION GENERAL ARRANGEMENT - 184970  
EXHAUST FAN AND DAMPER GENERAL ARRANGEMENT - 117632

VENTILATION DUCT

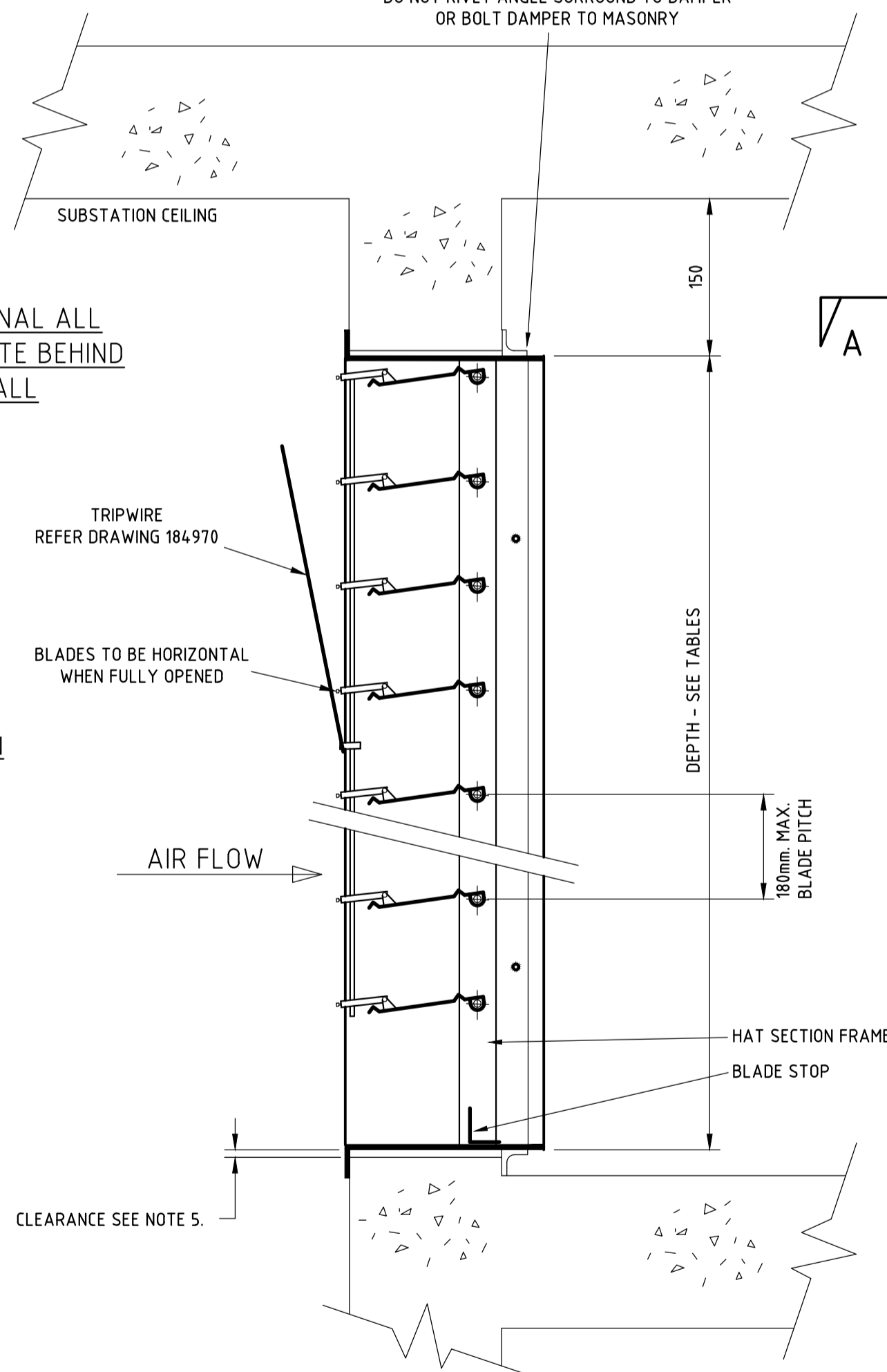


INLET DAMPER

NOTE: BLADE LOCKING SPRING CLIPS ARE NOT REQUIRED

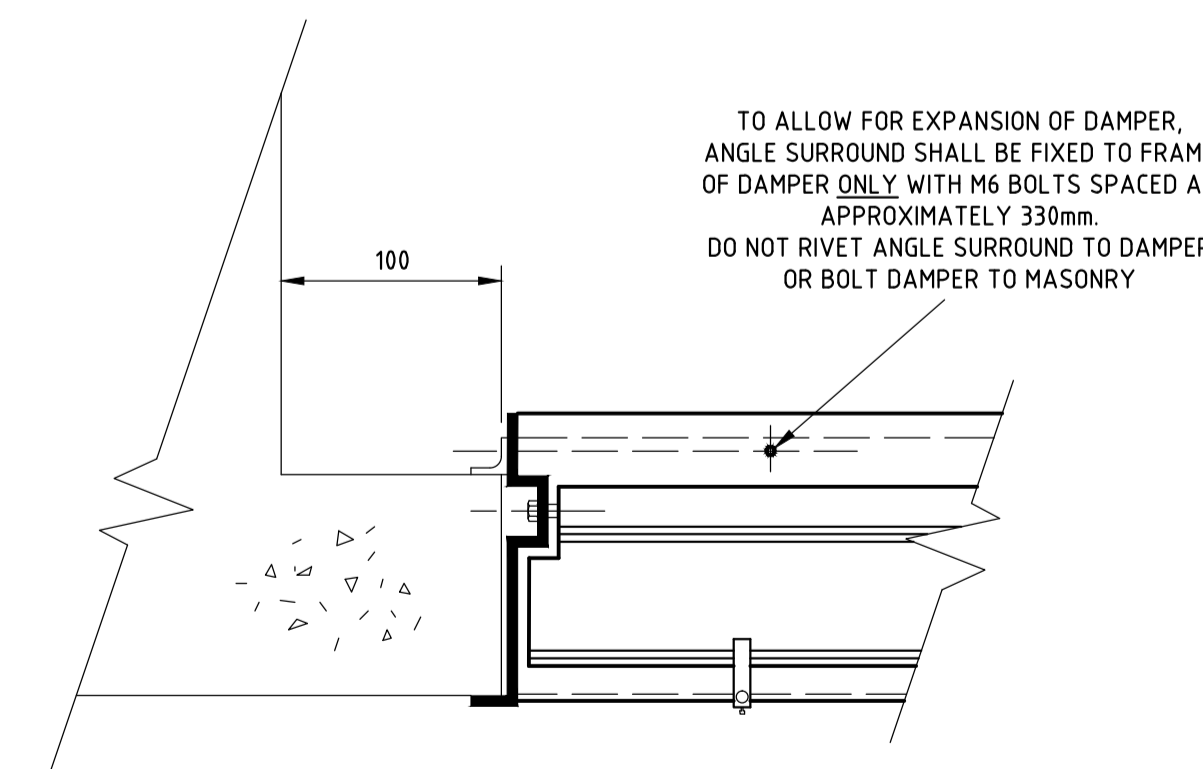
TO AVOID INJURY TO PERSONAL ALL PROJECTIONS SHALL TERMINATE BEHIND PLANE OF CHAMBER WALL

INSIDE SUBSTATION CHAMBER



WALL MOUNTED EXHAUST DAMPER

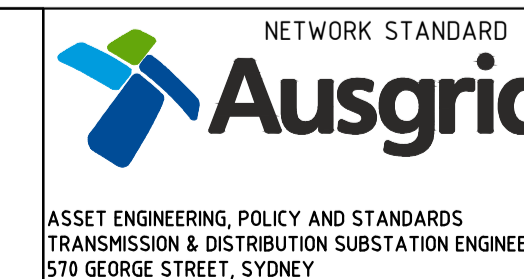
NOTE: BLADE LOCKING SPRING CLIPS ARE NOT REQUIRED



SECTION A-A

TO ALLOW FOR EXPANSION OF DAMPER, ANGLE SURROUND SHALL BE FIXED TO FRAME OF DAMPER ONLY WITH M6 BOLTS SPACED AT APPROXIMATELY 330mm. DO NOT RIVET ANGLE SURROUND TO DAMPER OR BOLT DAMPER TO MASONRY

CONSTRUCTION



SCALE	1:1 & 1:5
DESIGNED	
DRAWN	
CHECKED	
APPROVED	
DATE	
PROJECT NUMBER	
PROJTRAK NUMBER	

DISTRIBUTION SUBSTATIONS  
BASEMENT CHAMBERS  
MULTIBLADE FIRE DAMPERS

SIZE	DRAWING No	SHEET	AMD
A1	48849	1	9

CAD DRAWING  
DO NOT MANUALLY AMEND  
AMENDMENTS  
8. NEW DRAWING MADE.  
DRAWING RE-TITLED.  
TABLES UPDATED TO  
ALIGN WITH NETWORK  
STANDARDS.  
BLADE LOCKING SPRING  
CLIPS DELETED FROM ALL  
DAMPERS.  
P.JARVIS 22.9.17  
CHECKED: P.TURRIN  
APPROVED: D.GRCEV  
9. WALL MOUNTED  
EXHAUST DAMPER  
TRIPWIRE CONNECTION  
CORRECTED.  
SUBURBAN BASEMENT  
TABLE UPDATED FOR  
TWO AND THREE 1500kVA  
TRANSFORMERS.  
P.JARVIS 8.11.17  
CHECKED: P.TURRIN  
APPROVED: D.GRCEV