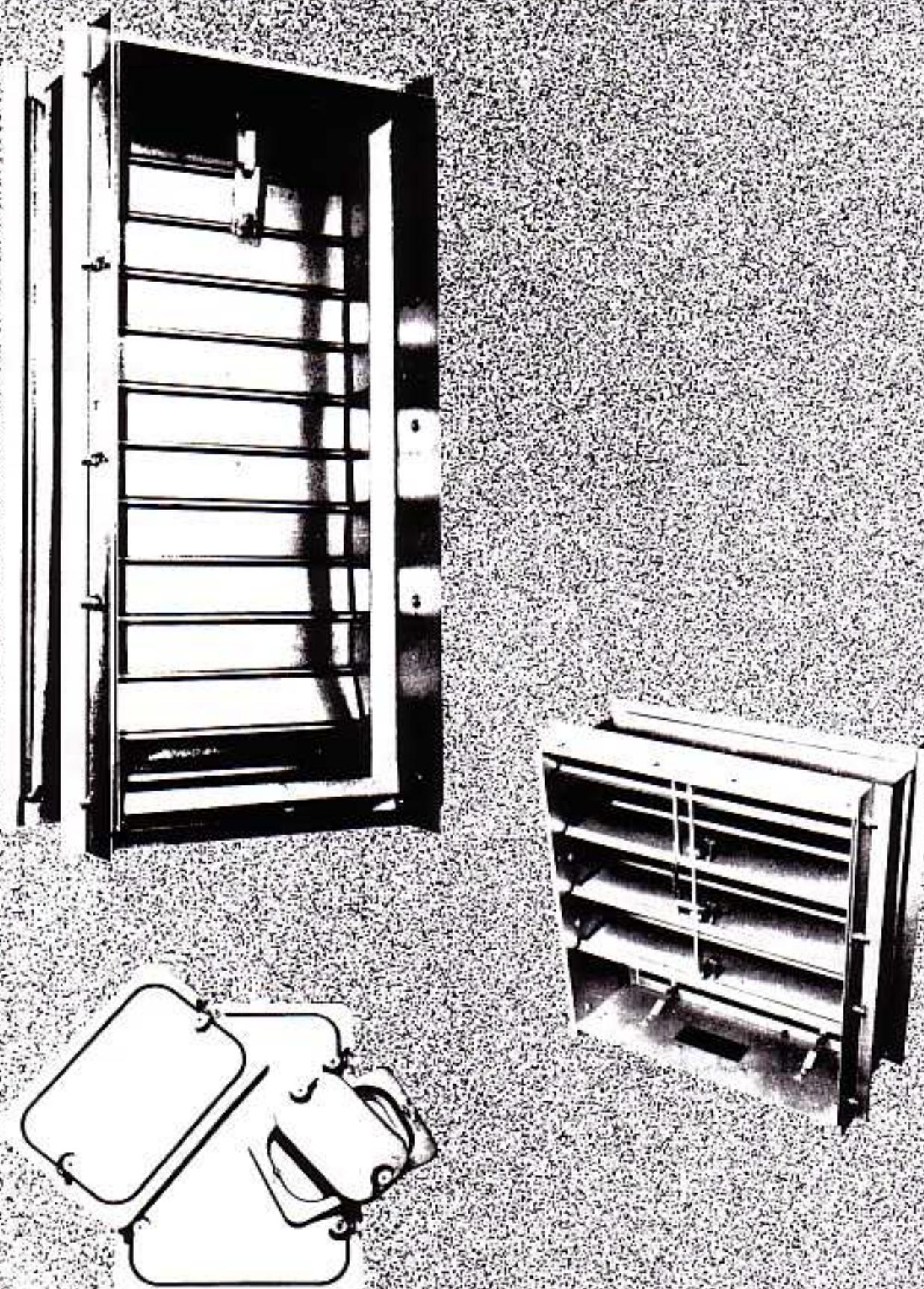


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FIRE DAMPERS AND ACCESSORIES



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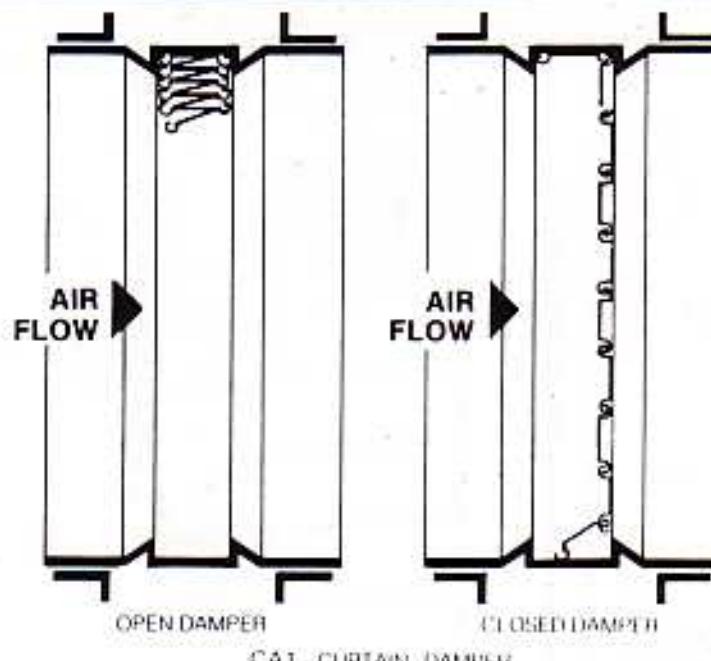
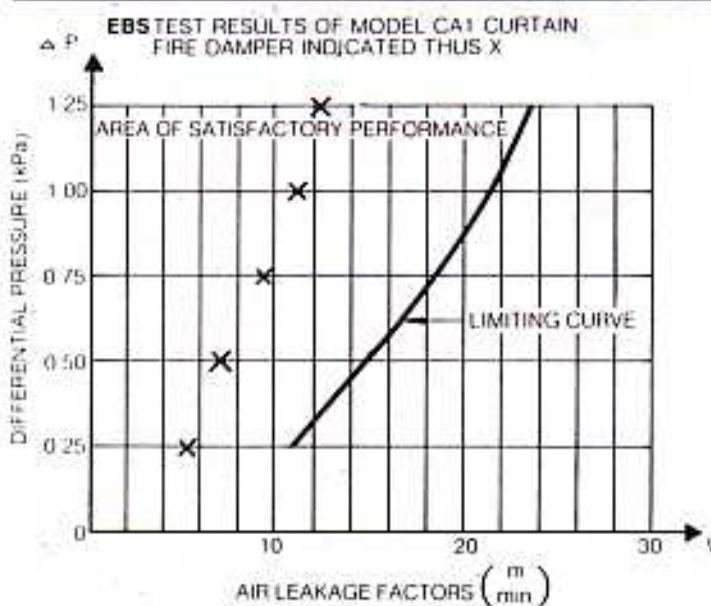
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PRODUCT RANGE AND PERFORMANCE



MODEL CA1 CURTAIN DAMPER

The advantage of a CA1 Curtain Damper is the simplicity of its design.

It incorporates a unique interlocking blade system giving high resistance to fire penetration and distortion. The curtain of blades ride in an integrally formed sleeve/jamb section designed to be narrow in profile, constructionally strong whilst being light in weight. Resetting can be achieved from either side.

MODEL PM1 MULTI-BLADE RECTANGULAR DAMPER

The Multi-Blade Rectangular Damper has parallel acting blades connected by a linkage bar. This product features a special non return locking catch that can be released from either side.

MODEL PS1 SINGLE BLADE RECTANGULAR DAMPER

This Damper has similar hardware and non return catch as PM1

MODEL RS1 SINGLE BLADE ROUND DAMPER

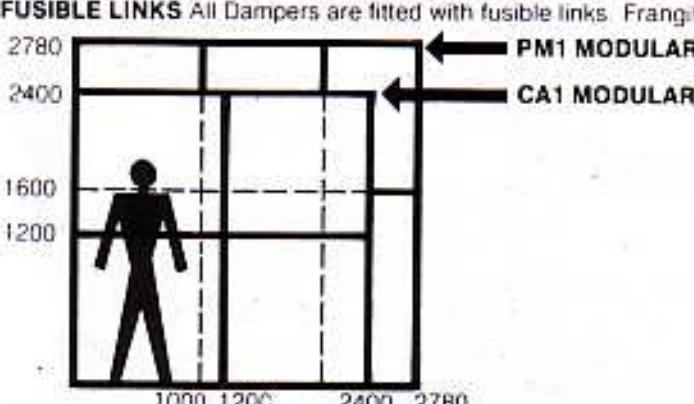
SUMMARY OF TESTS BY THE EXPERIMENTAL BUILDING STATION NORTH RYDE N.S.W. AUSTRALIA

MODEL	DUST TEST (TO AS1682)	LEAK TEST (TO AS1682)	FIRE TEST (TO AS1530)	MAXIMUM DAMPER SIZES TESTED	
				SINGLE MODULE W X H	MULTI-MODULAR W X H
CA1	Passed	Passed	Passed 4 hr	1200 x 1200	2400 x 2400
PM1	Passed	Passed	Passed 4 hr	1000 x 1600	2780 x 2780
PS1	Passed	Passed	Passed 4 hr	850 x 500	-
RS1	Passed	Passed	Passed 4 hr	750 Dia	-

INSTALLATION ECONOMY All dampers are supplied as "Standard" with slotted mounting angles prebolted through the square holes in the damper casing. This simplifies the compliance to the installation code - AS1668 and enables "one handed" tightening of the bolts and dramatically reduces installation time.

RANGE OF PRODUCTS AND SIZES The above table of successfully tested Dampers illustrates, not only a wide choice of Damper Types, but also shows little restriction in dimension due to the extreme size of the "AS1682" approved products. Note: We do not claim "approval" to the code AS1682 where single modules are joined to satisfy a dimension larger than the actual tested Multi modular maximum dimension as shown above. Samples of these actually tested dampers are available for inspection.

FUSIBLE LINKS All Dampers are fitted with fusible links. Frangible Bulb, Electro Thermal or standard type available.



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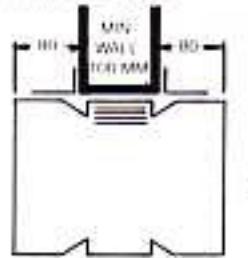
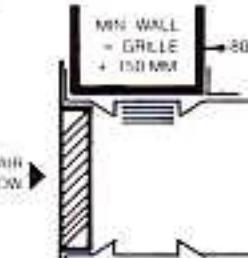
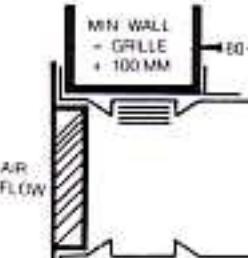
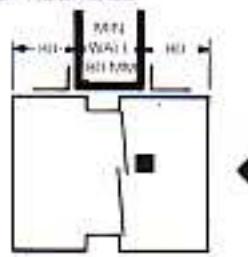
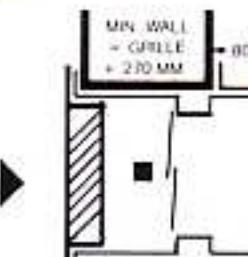
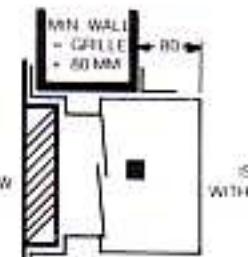
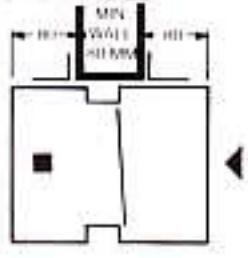
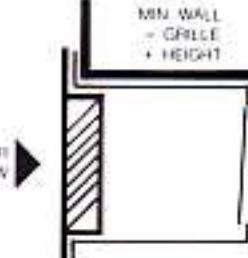
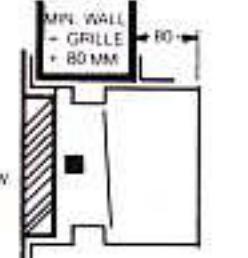
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MOUNTING STYLES AND INSTALLATION INSTRUCTIONS

SINGLE MODULE DAMPERS

NOT TO SCALE

■ DENOTES LOCATION OF FUSIBLE LINK

MAX TESTED SIZE MM	STYLE 'A' O.D. = NOMINAL -5 MM SLEEVE DEPTH = WALL + 160 MM	STYLE 'B' I.D. = NOMINAL SLEEVE DEPTH = WALL + 80 MM	STYLE 'C' I.D. = NOMINAL SLEEVE DEPTH = WALL + 80 MM
1200 W x 1200 H	CA1 CURTAIN BLADED  AIR FLOW	CA1  AIR FLOW	CA1  AIR FLOW
1000 W x 1600 H	PM1 MULTI BLADED  AIR FLOW	PM1  AIR FLOW	PM1  AIR FLOW IF OUTRIGGER IS REQUIRED FIX WITH NYLON BOLTS
850 W x 500 H	PS1 SINGLE BLADED  AIR FLOW	PS1  AIR FLOW	PS1  AIR FLOW
750 DIA	RS1 SINGLE BLADED - ROUND MIN WALL = 80 MM		

MULTI MODULAR UNITS

DIMENSIONS ALLOW FOR MODULAR JOINING BOLTS — MIN. SLEEVE DEPTH AS ABOVE

MAX TESTED SIZE MM	STYLE 'A' O.D. = NOMINAL -5 MM SLEEVE DEPTH = WALL + 160 MM	STYLE 'B' I.D. = NOMINAL SLEEVE DEPTH = WALL + 80 MM	STYLE 'C' I.D. = NOMINAL SLEEVE DEPTH = WALL + 80 MM
2400 W x 2400 H	CA1 MIN WALL = 100 MM	CA1 MIN WALL = GRILLE + 180 MM	CA1 MIN WALL = GRILLE + 130 MM
2780 W x 2780 H	PM1 MIN WALL = 190 MM	PM1 MIN WALL = GRILLE + 270 MM	PM1 MIN WALL = GRILLE + 300 MM

INSTALLATION INSTRUCTIONS

- The Damper casing must completely penetrate the wall, and the blades, when in the closed position must be located in the plane of the wall and no closer than 40mm from a wall face. If the wall requires thickening to conform to above refer Footnote References.
- The hole in the wall shall allow a clearance of 12mm ($\frac{1}{2}$ ") all around for dampers up to 1200mm (47 $\frac{1}{4}$ ") on the largest dimension and 25mm (1") all around for dampers over 1200mm (47 $\frac{1}{4}$ ") on the largest dimension.
- Dampers should be installed with airflow direction as indicated on damper label.
- Insert duct spigot between the loosened slotted angle and damper body up to the bolt (see drawing) and apply mastic seal between the damper body and duct. Tighten bolts up to the slotted angle so that adjustments permitted by the slot locates the damper blades as mentioned in step (1). The square headed coach bolts provided locate into a square hole in the damper body, hence these bolts may easily be tightened from the outside of the damper.
- Remove the slotted angles from the other side of the damper. Insert the damper complete with duct through the wall opening and pack the expansion gap with non-combustible material capable of resisting a temperature of 1000°C.
- The duct may now be connected to the other side of the damper in a similar fashion as described in step (4) ensuring that the slotted angles are butted against the wall securely, thus retaining the damper firmly in the wall. Where access is available from both sides of the wall at time of installation, do not connect fixing angles to the wall itself.
- Install adequately sized access panel in adjoining duct so that access may be gained and the damper can be test operated.
- The damper body should not protrude more than 80mm (3 $\frac{1}{4}$ ") past the face of the wall.

FOOT NOTE References AS1668, PART 1, - 1979, PAGE 15, "4.3 - FIRE DAMPERS".

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DUCT FIXING

SECTIONAL VIEW OF MOUNTING ANGLE DETAIL FOR GRILLE SIDE OF STYLES B AND C

TURN OUT ON DAMPER BODY

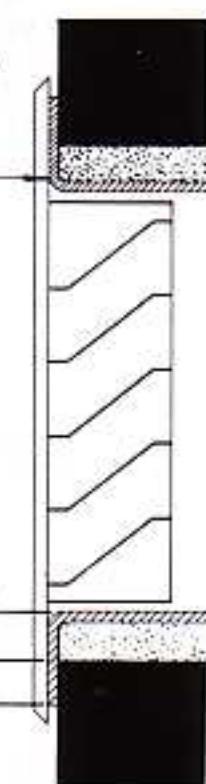
CLEARANCE "B"
PACK WITH NON COMBUSTIBLE PACKING AS PER A.S. 1668 PART 1.

DIM "A"

FOR DAMPERS UP TO 1200 MM ON LARGEST DIMENSION

DIM 'A' 30 MM

CLEARANCE 'B' 13 MM



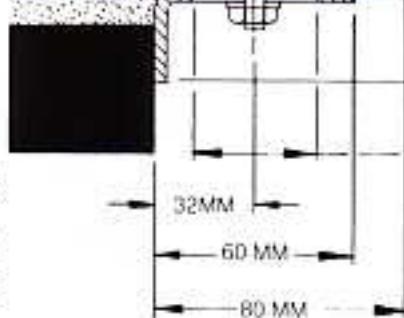
SECTIONAL VIEW OF MOUNTING ANGLE DETAIL FOR BOTH SIDES OF STYLES A AND DUCTED SIDE OF STYLES B AND C

2.5 MM THICK MOUNTING ANGLE

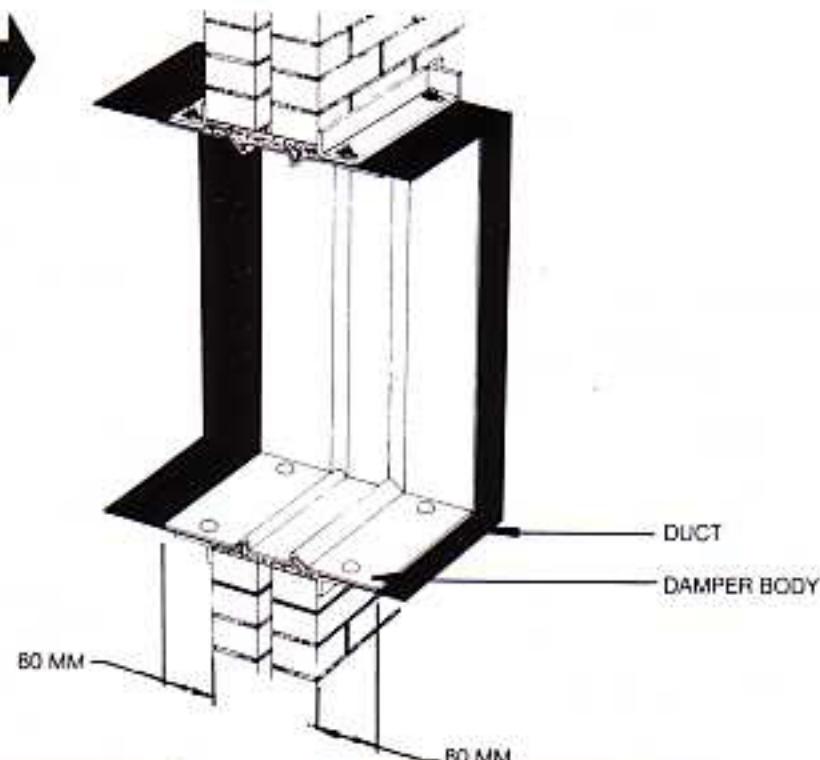
6 MM CUP HEAD SQUARE NECK BOLT, NUT AND WASHER THROUGH SQUARE HOLE IN DAMPER BODY
DAMPER BODY
EDGE OF DUCT WEDGED UNDER ANGLE AND PULLED TO SEAL BY BOLTS (ADD MASTIC IF REQUIRED)

DIM "A"

40 MM LONG X 9 MM SLOT



PERSPECTIVE SECTIONAL VIEW OF MOUNTING DETAIL (STYLE A ILLUSTRATED)



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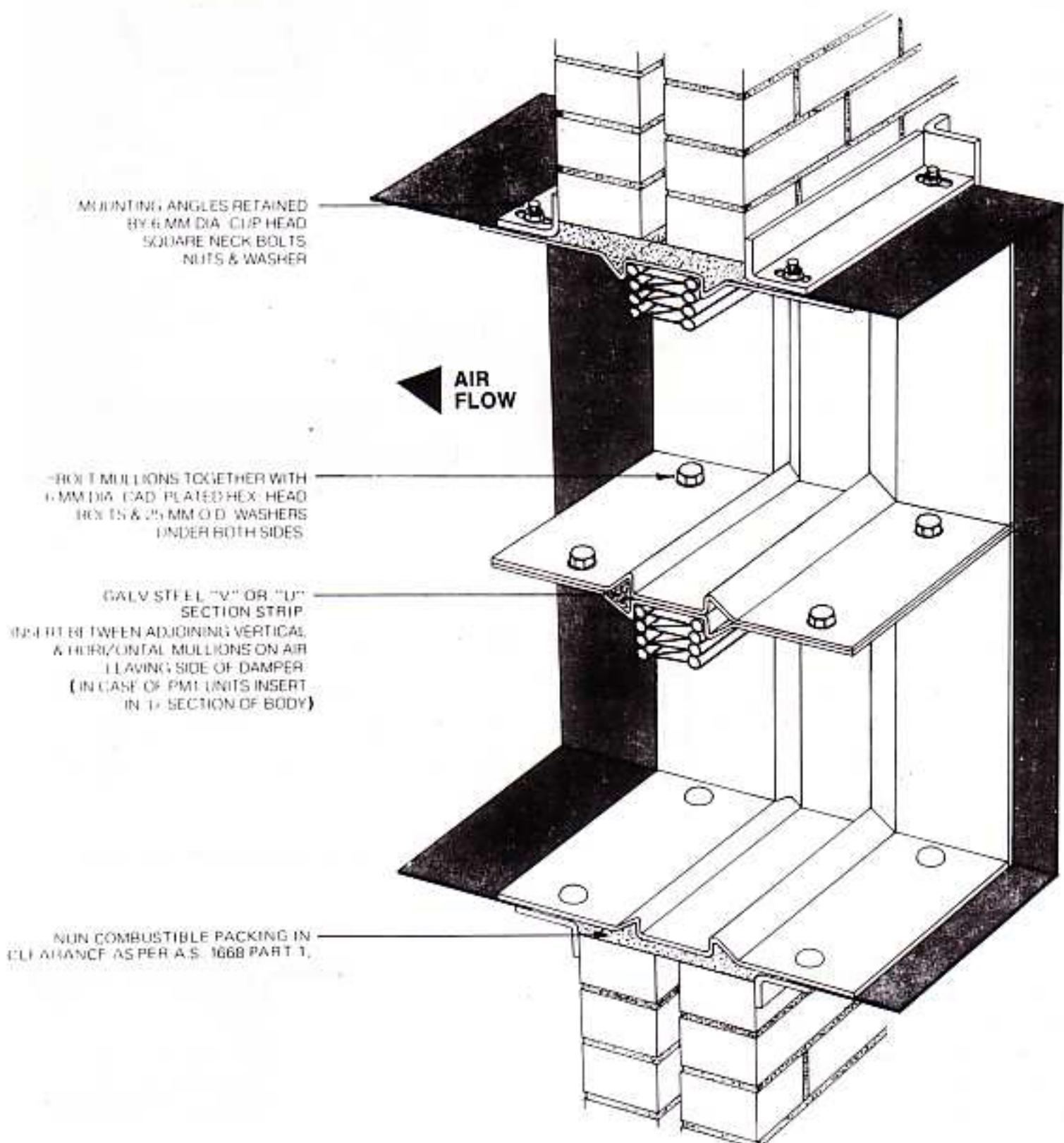
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MODULAR ASSEMBLY DETAILS



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