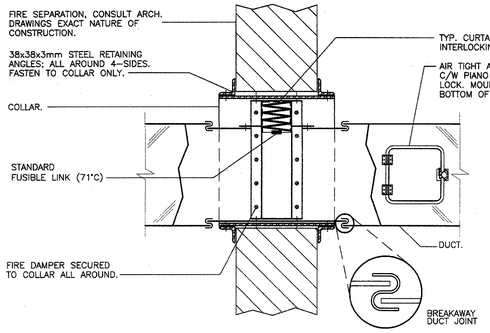
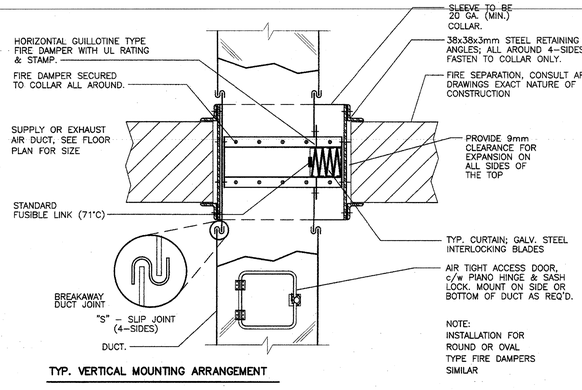


TYP. HORIZONTAL MOUNTING ARRANGEMENT



TYP. VERTICAL MOUNTING ARRANGEMENT

NOTES:

1.) FRAME, BLADES, AND COLLAR SHALL BE GALVANIZED STEEL CONSTRUCTION. COLLAR SHALL BE Min. 14 Ga (2.0mm thk).

2.) FOLLOW MANUFACTURER'S INSTRUCTIONS FOR THE INSTALLATION OF TYPE-"B" EXTERNAL CURTAIN FIRE DAMPERS. STANDARD OF ACCEPTANCE = CONTROLLED AIR MANUFACTURING LTD. or RUSKIN MFG. Co. LTD.

3.) SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

4.) PROVIDE STAINLESS STEEL FIRE DAMPERS WHERE INDICATED ON THE PLANS, MOUNTING ARRANGEMENT SIMILAR TO ABOVE

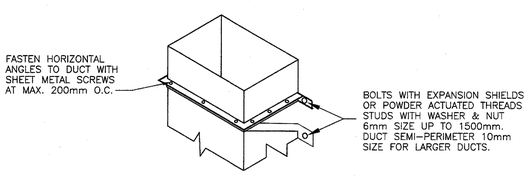
WHERE FIRE DAMPERS ARE MOUNTED IN WALLS/FLOORS/CEILINGS SURROUNDING SECURE AREAS; THE ACCESS DOOR SHALL BE MOUNTED ON THE SIDE OF THE NON-SECURE AREA.

TYP. FIRE DAMPER(S) INSTALLATION DETAIL

N.T.S

MAXIMUM DUCT DIMENSION	MAXIMUM DUCT DIMENSION	MAXIMUM DUCT DIMENSION
900mm	1350mm	25 X 25 X 3
1200mm	1950mm	30 X 30 X 3
1500mm	2550mm	40 X 40 X 3
LARGER	LARGER	50 X 50 X 5

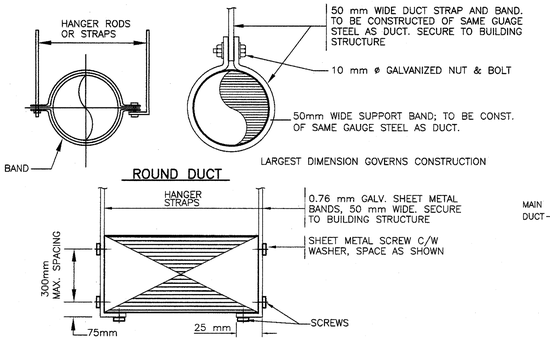
SUPPORTS FOR VERTICAL DUCTS AT WALLS TO MAXIMUM WIDTH 600mm AND MAXIMUM DEPTH 500mm

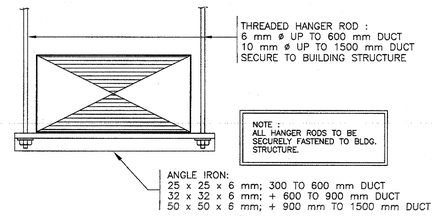


SUPPORTS FOR VERTICAL DUCTS AT WALLS OVER 600mm OR 500mm IN DEPTH

HANGER SUPPORTS FOR LOW VELOCITY VERTICAL DUCTWORK

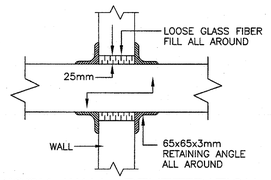
N.T.S.





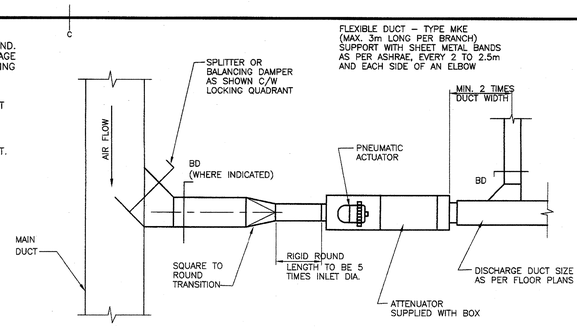
TYPICAL LOW VELOCITY DUCT HANGER SUPPORT DETAILS

N.T.S.



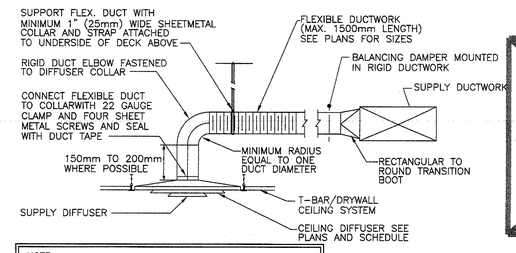
DUCTWORK WALL PENTETRATION DETAIL

N.T.S.



VAV BOX INSTALLATION DETAIL

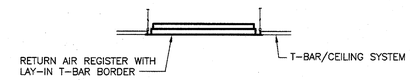
N.T.S.



NOTE:
USE ALL AVAILABLE CEILING SPACE TO PROVIDE MAXIMUM STRAIGHT RUN OF SOLID DUCT INTO DIFFUSER.

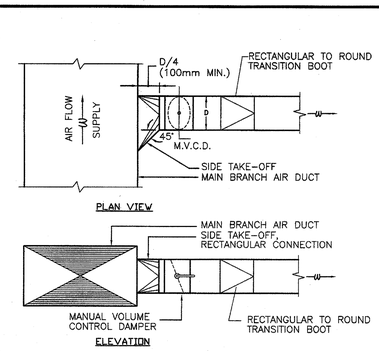
TYPICAL CONNECTION TO S.A. DIFFUSER

N.T.S.



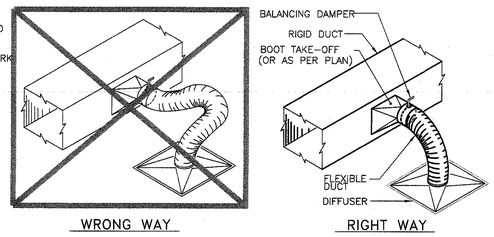
RETURN GRILLLE

SCALE - N.T.S.

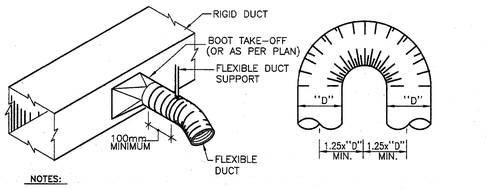


TYPICAL SIDE TAKE-OFF CONN. RETANGULAR TO ROUND

SCALE - N.T.S.



WRONG WAY — RIGHT WAY

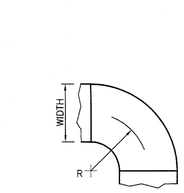


NOTES:

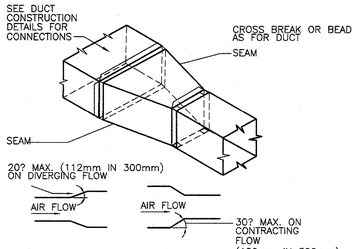
1. INSTALL DUCT FULLY EXTENDED, USING MINIMUM LENGTH REQUIRED TO MAKE CONNECTION
2. AVOID SHARP BENDS. NO BEND SHALL BE MADE WITH CENTERLINE RADIUS LESS THAN ONE(1) DUCT DIAMETER.
3. PROTECT THE DUCT AT CONNECTION BY ALLOWING DUCT TO EXTEND STRAIGHT FOR 100mm BEYOND THE END OF THE SHEET METAL CONNECTOR BEFORE MAKING A BEND.

FLEXIBLE DUCT INSTALLATION DETAIL

SCALE - N.T.S.

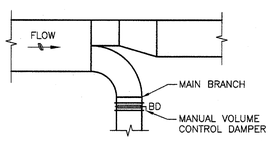


STANDARD RADIUS ELBOW



TRANSITIONS AND TAKE-OFFS

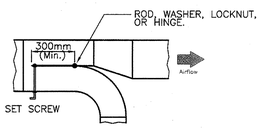
SCALE - N.T.S.



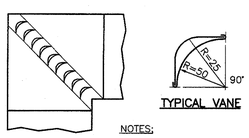
DUCT BRANCH C/W BALANCING DAMPER
SCALE - N.T.S.

NOTES
20 DEG. Max. ON DIVERGING AIRFLOW,
30 DEG. Max. ON CONVERGING AIRFLOW.

TYPICAL TRANSITIONS



TYPICAL SPLITTER DAMPER

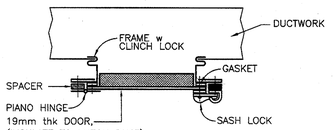


TYPICAL VANE

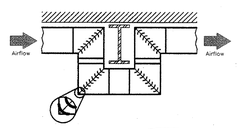
NOTES:
VANE SPACING,
30mm (SMALL ELBOW)
60mm (LARGE ELBOW)

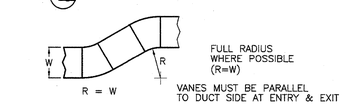
TYPICAL VANED ELBOWS

TYP. DUCT CONSTRUCTION STANDARDS

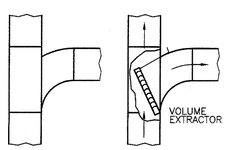


TYP. DUCT MTD. ACCESS DOOR





TYPICAL OFFSETS

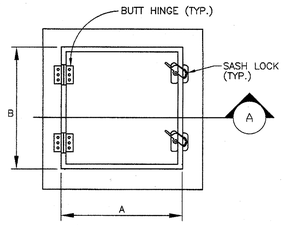


TYPICAL "TEE" CONNECTIONS

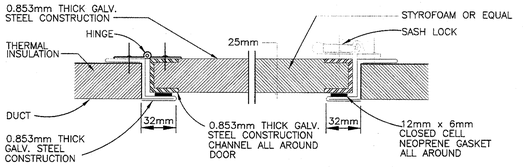
NOTES;

1. ALL DUCTWORK CONSTRUCTION SHALL CONFORM TO SMACNA LOW AND/OR HIGH VELOCITY DUCT STANDARDS AS REQUIRED.
2. NOT ALL CONDITIONS SHOWN ABOVE MAY APPLY TO THIS JOB. COORDINATE ON-SITE

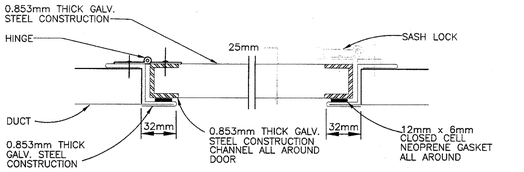
SCHEDULE			
MAX. DOOR SIZE (mm)		No. OF HINGES	No. OF LOCKS
A	B		
300	300	2	1
400	400	2	2
600	600	3	2



STANDARD HINGE-TYPE ACCESS DOOR



SECTION 'A' - STANDARD INSULATED DOOR



SECTION 'A' - STANDARD UNINSULATED DOOR

DUCT ACCESS DOORS

(FOR STATIC PRESSURE CONSTRUCTION CLASS 500Pa AND LESS)

N.T.S.

0 10 20mm 40 60 80 100 120 140 160 180 200mm

PWGSC B1 (2004)

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

1	ISSUED FOR TENDER	JULY 30 2014
revisions		date

project / projet

RENOVATIONS TO SERVICE CANADA ESDC/EDSC
680 MAIN STREET
WOODSTOCK, NB

drawing / dessin

MISCELLANEOUS MECHANICAL DETAILS

designed F.A.M. / conçu
date 2014-07
drawn F.A.M. / dessiné
date 2014-07
approved / approuvé
date
Tender O.D. LeBlanc P. Eng. 2014-08-11 / Soumission
PWGSC Project Manager / Administrateur de projets TPSGC
project number / no. du projet
R.072336.001
drawing no. / no. du dessin
H3 OF 3

E-DRW/GDD-E: 453713