IN PLASTERED WALLS
SCALE: FULL SIZE

IN MARBLE PARTITIONS
SCALE: FULL SIZE

ON EXPOSED DUCTS
SCALE: FULL SIZE

NOTE:
All screws and rivets to be
on not over 4\(\frac{1}{2}\) centers.
Duct joint to be adjusted
when register face is in-
stalled.

DETAIL OF METHOD OF
ATTACHING REGISTER FRAME
TO DUCT OPENING.

MILLER, RICH & CO.
ENGINEERS
CHICAGO, ILL.
TRANSVERSE JOINT
LONGITUDINAL JOINT
CORNER JOINT
FOR ELBOWS.

FORMS OF JOINTS IN GALVANIZED IRON DUCT WORK
SCALE: FULL SIZE.

FORMS OF JOINTS IN CASINGS.
SCALE: FULL SIZE.

FORM OF JOINT BETWEEN GALV. IRON & COPPER DUCTS.
SCALE: FULL SIZE.

NOTE:
All joints must be perfectly air tight. If necessary they must be soldered. The use of mastic or putty will not be allowed.
All screws & rivets to be on hot over 8" centers.

TYPICAL JOINTS FOR VENTILATING DUCT WORK.

WEILER, RICH & CO.
ENGINEERS
CHICAGO, ILL.
32 oz. COPPER FRAME

LOWER 20 oz. COPPER

COPPER ANGLE

COPPER ANGLE

HANSS BOLTS FOR SCREEN FRAME. U
CLING MT BOLTS

REMOVABLE SCREEN 70G
HAND DARNED COPPER WIRE
1/4 DIAMOND MESH IN COPPER FRAME

HEADS TO BE SECURELY
FASTENED TO WALL WITH
BRASS EXPANSION BOLTS

WATER TIGHT JOINTS
ALL AROUND.

LEAD JOINT
SEE DETAIL

COPPER NIVETS

VERTICAL STRAP
SUPPORTS ON MALLE
5" CENTERS

HUNG SHEETS TO
FLOOR BETWEEN 3" RIPSTOPS SEE
PLAN.

GROUTING

NOTE

GROSS AREA OF HEAD
TO BE NOT LESS THAN
TWICE THE AREA OF
CONNECTING DUCT.

SECTION THRU HEAD
SCALE 1"=10'

NOTE

IF COPPER HEADS ARE SPECIFIED,
USE MATERIALS GIVEN ABOVE.
IF GALVANIZED IRON HEADS ARE
SPECIFIED ENTIRE HEAD TO BE MADE
OF WROUGHT IRON AND LEAD JOINT
OMITTED

TYPICAL INTAKE
& DISCHARGE HEAD

HEBB, MANN & CO.

CAGLENS.

CHICAGO, ILL.
NO SCALE.

1) INSIDE CURVE OF ELBOW TO HAVE RADIUS EQUAL TO WIDTH OF BRANCH DUCT.

2) PLACE LINE HERE HAVING RADIUS EQUAL TO WIDTH OF BRANCH DUCT PLUS OFFSET IN TRUNK DUCT, AND TO BE TANGENT TO SIDE OF BOTH DUCTS. WHERE A LINE TANGENT TO THE ARC AND AT AN ANGLE OF 30° WITH THE SIDE OF TRUNK DUCT INTERSECTS THE SIDE OF DUCT LOCATE CUT OFF.

3) OUTSIDE CURVE OF ELBOW TO HAVE RADIUS THAT WILL BRING CURVE TANGENT TO 30° LINE AT CUT OFF AND TANGENT TO SIDE OF BRANCH DUCT. FOR CURVATURE AT LARGE OFFSETS THE RADIUS OF OUTSIDE CURVE NEED NOT BE MORE THAN TWICE THE WIDTH OF BRANCH DUCT. IN ANY EVENT THE CENTER OF ARC MUST NOT FALL BEYOND A LINE THAT IS PERPENDICULAR TO THE 30° LINE AND PASSES THROUGH THE CENTER OF ID CURVE.

4) LENGTH OF AIR SPLIT DAMPER MUST EQUAL WIDTH EQUAL TO WIDTH OF BRANCH DUCT.

TYPICAL CONNECTION BETWEEN TRUNK AND BRANCH DUCTS

MCKEE, RICH & CO.

ENGINEERS.

CHICAGO, 1962.
TYPICAL DAMPER REGULATOR
IN EXPOSED OR ACCESSIBLE RESTS

SCALE: FULL SIZE
NEILER, RICH & CO.
ENGINEERS
CHICAGO, ILL.
USE THIS DETAIL WHERE END OF DAMPER ROD IS ACCESSIBLE.

TYPICAL DAMPER REGULATOR IN CONCEALED DUCT.