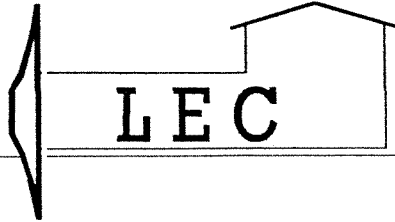
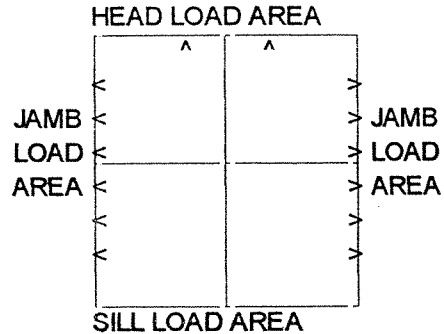
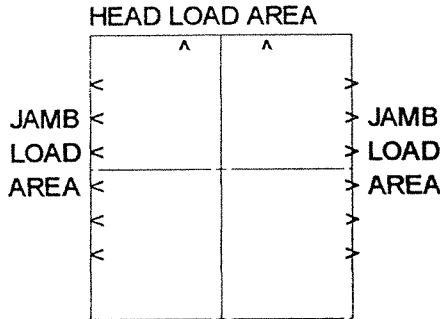


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FORMULA SHEET FOR FASTENER LOAD CALCULATIONS



TRAPEZOIDAL LOAD PATTERN MASONRY
NOTE: SILL LOADING NOT USED DUE TO
ADHESIVE FASTENING OF SILL IN TEST.

TRAPEZOIDAL LOAD PATTERN FRAME
(ALSO SLIDING GLASS DOORS)

FASTENER CALCULATION DONE IN INCREMENTS OF 5 PSF FROM
30 TO 70 PSF ON A SPREAD SHEET.

USED FASTENER VALUES: TAPCON = 255 LB
 # 8 SCREW = 118.6 LB
 #10 SCREW = 240 LB
 # 8 SCREW = 187.2 LB (WITHDRAWAL)

CALCULATE FOR NUMBER OF FASTENERS

REQUIRED NUMBER OF FASTENERS = $\frac{\text{LOAD AREA IN SQ. FT.} \times \text{D.P.}}{\text{ALLOWABLE FASTENER LOAD}}$

NOTE: THE NUMBER OF FASTENERS WERE ROUNDED UP.

THE #8 SCREWS REQUIRED TO FILL THE REMAINING FACTORY INSTALLATION
HOLES WERE NOT FIGURED INTO FASTENER LOAD CALCULATION.

THE FIN INSTALLATION WAS DONE WITH #8 SCREWS AT 6" FROM THE
CORNERS AND 24" ON CENTER MAXIMUM. THIS COVERED ALL EXCEPT
EXTREMELY LARGE HORIZONTAL ROLLERS OVER 60 PSF. THIS WAS
NOTED ON THE CHART. ALL OTHERS CHECKED IN LARGEST SIZES
OK UP TO 70 PSF.

THE 2X BUCK STRIP MASONRY INSTALLATION USED #10 SCREWS INTO
ALL OF THE FACTORY PUNCHED INSTALLATION HOLES. THIS WAS
CHECKED IN THE LARGEST SIZES UP TO 70 PSF. THIS COVERED ALL
EXCEPT THOSE LARGEST HORIZONTAL ROLLERS OVER 60 PSF. THIS
WAS NOTED ON THE CHART.

