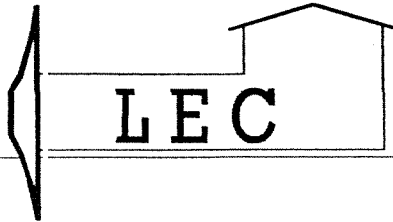
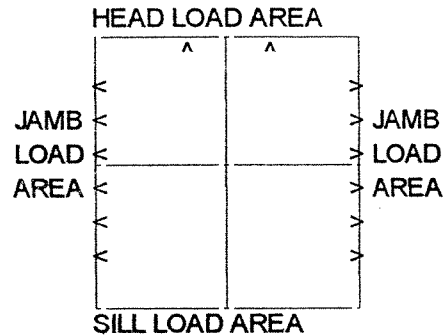
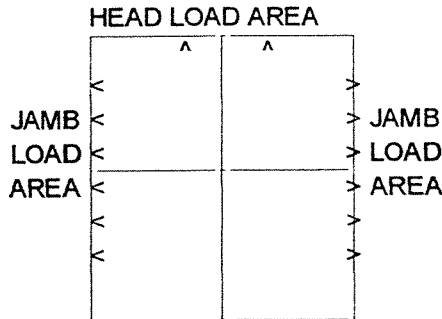


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FORMULA SHEET FOR FASTENER LOAD CALCULATIONS



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)

FIN ONLY >

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.

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FEB 28 2002