## MOUNTING INFORMATION

Sex nuts or through bolts are required for wood and plastic covered composite doors, and any type of door without reinforcements and recommended for wood core and metal clad (Kalamein) type doors.

| Door <br> Thickness | Sex Nut <br> Length "L" |
| :---: | :---: |
| $1-3 / 8(35)$ | $1-9 / 32(33)$ |
| $1-3 / 4(44)$ \& over | $1-21 / 32(42)$ |

RESPONSIBILITY
Door and Frame Manufacturers are responsible for providing adequate construction or reinforcements for proper installation of hardware shown. All architectural builders hardware must be installed on properly reinforced doors and frames, regardless of the type, material, or method of construction.

1/4-20 Tap For Machine Screw or drill a 3/16 (5) diameter pilot hole for a \#14 Wood Screw in Wood Applications.
(9 Places)

$1 / 2$

SPACER


## RH SHOWN LH OPPOSITE

CAUTION
Closer To Be Installed In A True Horizontal Position To Ensure Proper Closer Performance.

## NOTES:

1. Dimensions "A" \& "B" apply to centerline of hinge/pivot for butt, swing clear, offset and center hung pivots.
2. Maximum degree of opening for center hung pivot is $140^{\circ}$
3. Dimensions given in inches and (mm).
4. Minimum Top Rail: 6 (152)
5. To obtain extra closing force, add $3^{\prime \prime}(76)$ to dimensions marked by asterisk (*). This will limit degree of opening to $110^{\circ}$.

| Opening <br> Maximum | A | B | Min <br> Door Width | Application |
| :---: | :---: | :---: | :---: | :---: |
| $90^{\circ}$ | $\frac{12-3 / 4}{(324)}$ | $\frac{11-5 / 8}{(295)}$ | $\frac{27-3 / 4}{(705)}$ | NON |
| $180^{\circ}$ | $\frac{8-11 / 16}{(221)}$ | $\frac{7-9 / 16}{(192)}$ | $\frac{23-5 / 8}{(600)}$ | E.A. |

