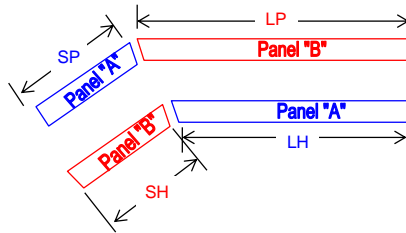


IntegraSpec® STANDARD Mitering Wall Formula

MITERING **IntegraSpec®** WITH STANDARD PANELS WITH **10.0** INCH CONCRETE CAVITY FOR
45 DEGREE CORNERS / ANGLE(S)

DESCRIPTION

LH = Long Heel (1st part of panel "A")
 SP = Short Point (2nd part of panel "A")
 SH = Short Heel (1st part of panel "B")
 LP = Long Point (2nd part of panel "B")



1st Panel cuts = SP + LH = Panel "A"
 2nd Panels cuts = LP + SH = Panel "B"

NOTE: Two Mitered Standard IntegraSpec® Panels ("A" & "B") as per Formula provided below = One Angled Corner Complete Block (zero wastes). ***For best results, use a sliding miter saw***

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MITERING FORMULA EXAMPLE FOR 6" CONCRETE WALL:

$d = \tan(\text{Degree}/2) \times 11"$ (overall wall width)

$$\begin{aligned} SP &= d/2 - 1/8" + 16" \\ SH &= SP - d \\ LP &= SP + 16" \\ LH &= LP - d \end{aligned}$$



Fig. D.1
 45 Degree Assembled Corner
 6" concrete core

45 Degree CORNER MITER CUT EXAMPLE

Cutting Angle = 22.5 Degree

$$\begin{aligned} d &= \tan 22.5^\circ \times 11" = 4.56 \\ (.4142) \times (11) &= (4.56) \end{aligned}$$

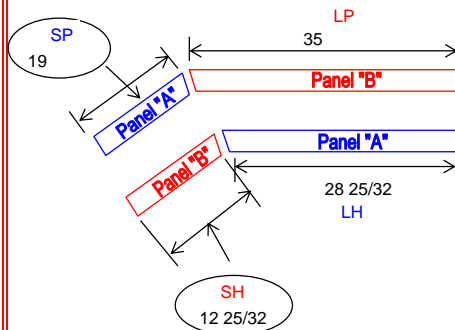
$$\begin{aligned} SP &= 4.56/2 - 0.125 + 16" = 18.153" &= 18 \frac{5}{32}" \\ SH &= 18.153" - 4.56 = 13.59" &= 13 \frac{5}{8}" \\ LP &= 18.153" + 16" = 34.15" &= 34 \frac{5}{32}" \\ LH &= 34.15" - 4.56 = 29.59" &= 29 \frac{5}{8}" \end{aligned}$$

(Excel Spreadsheet application)

ENTER DEGREE OF ANGLE / CORNER BLOCK DESIRED IN BOX

ENTER CONCRETE CORE / CAVITY SIZE IN BOX

45 Degree (angle)
 10.00 Inch (concrete cavity)



$$\begin{aligned} (\text{Panel "A"}) SP &= 18.982" = 19" \\ (\text{Panel "B"}) SH &= 12.768" = 12 \frac{25}{32}" \\ (\text{Panel "B"}) LP &= 34.982" = 35" \\ (\text{Panel "A"}) LH &= 28.768" = 28 \frac{25}{32}" \end{aligned}$$

CUTTING PROCEDURES:

Set Miter Saw @ 22.50 Degree

1st Panel: Cut at measurement intersection of SP with your saw set at cutting angle shown above. Piece remaining = LH.

2nd Panel: Cut at measurement intersection of LP with your saw set at cutting angle shown above. Piece remaining = SH.

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