

<http://jansson.us/jcompound.html>

N-sided Box

An n-sided box is built from n identical side pieces and a bottom. τ angle.

Number of sides:	<input type="text" value="4"/>
Side angle (deg):	<input type="text" value="45"/>
from: <input checked="" type="radio"/> vertical <input type="radio"/> horizontal	

Calculate...

Blade tilt, mitered joint:	<input type="text" value="30.0°"/>
Blade tilt, butted joint:	<input type="text" value="-30.0°"/>
Miter angle:	<input type="text" value="35.3°"/>
Miter complement:	<input type="text" value="54.7°"/>
Dihedral angle:	<input type="text" value="120.0°"/>

Note that this calculator also works for rectangular boxes.

[Derivation](#)

<https://www.blocklayer.com/compoundmitereng.aspx>

Compound Miter Template Generator - Calculator Print Template - Fold over piece and cut through template.

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[miter angle chart](#)

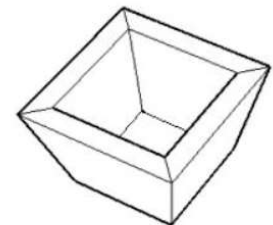
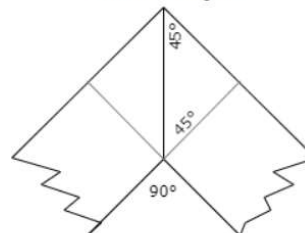
[pitch finder roof](#)

[angle cutting saw](#)

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Piece Thick	<input type="text" value="3/4"/>
<input checked="" type="radio"/> Sides	<input type="text" value="4"/>
<input type="radio"/> Flat Miter	
Sides Angle	<input type="text" value="45"/>
Calculate	

Flat Miter Angles



Miter Angle **35.3°**

Sides

Blade Angle **30°**