## Convex / Concave Options - Table of Contents

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Convex/Concave Options

- **Most** “Traditional” and “Old World” Stile & Rail profiles are available and identified by this symbol \( \text{C} \).
- See page D.4.2 for limitations.
- **All** Center Panel Profiles are available.
- **Most** Outside Edge Profiles are available and identified by this symbol \( \text{C} \), with the exception of applied molding edges.

See page D.4.2 for limitations.

Convex / Concave Products & Glossary of Terms

Curved Products - Convex / Concave

Convex

Concave

For PRICING See Section D.1 in our current Wholesale Pricing Catalog.
### Glossary of Curved Product Terms

#### Convex
- Curving outwards like the outside of a circle.
- The chord length of a Convex Product would be measured to the back.

#### Concave
- Curving inwards like the inside of a circle.
- The chord length of a Concave Product would be measured to the back.

#### Radius
- A straight line drawn from the center of a circle to any point on its circumference.
- Standard radii apply, see page D.4.1.

#### Diameter
- A straight line passing through the center of a circle, ending at the boundary of the figure.
- The diameter is specified as a chord length for a half circle.

#### Circumference
- The line bounding a circle, or its length.
- Curved Products are a part of a circle.

#### Arc
- Part of the circumference of a circle or part of any other curve.
- The Arc length is used as the width when calculating square footage for Curved Products.

#### Chord
- A straight line joining two points on a curve.
- The chord can be measured to the back of a product.

#### Rise
- A change in vertical position measured from the center of the chord.
- The rise may be specified. If the rise falls into a Custom radius application, a modification may be required to accommodate standard tooling requirements. An AutoCAD drawing will be generated for approval.

### Convex/Concave Options

**For PRICING**

See Section D.1 in our current Wholesale Pricing Catalog.
This drawing is to scale.

Convex Inset Door & Face Frame - Detail

Radius, Back of Door & Back of Face Frame
(Inches = Radius Minus 3/8")
(mm = Radius Minus 9.525mm)

Convex Inset Door & Face Frame - Ordering Information

This drawing is to scale.

Radius, Face of Door & Face of Face Frame
(Inches = Radius Plus 3/8")
(mm = Radius Plus 9.525mm)

1/8" [3mm] Gap Between Door & Frame

Convex Overlay or Inset Door

Radius Dimension (Center of Door)

For PRICING See Section D.1 in our current Wholesale Pricing Catalog.
This drawing is to scale.

Radius, Back of Door & Back of Face Frame
(Inches = Radius Minus 3/4")
(mm = Radius Minus 9.525mm)

3/4" [3mm] Gap Between Door & Frame

Inset F.F. Detail

Inset Door Detail

Radius, Face of Door, Face of Face Frame & Back of Molding
(Inches = Radius Plus 3/8")
(mm = Radius Plus 9.525mm)

3/4" [19mm]

Face of Face Frame

Face of Door

Inset Molding Detail

2 1/16" [52mm] #2179

WalzCraft Radius
(Center of Door & Face Frame)
(Inches: 12", 21", 36", etc.)
(mm: 304.8, 533.4, 914.4, etc.)

Convex Inset - Door, Face Frame & Molding - Ordering Information

Convex Inset Door, Face Frame & Molding - Detail

Convex Inset Molding

Radius Dimension (Center of Door)

Molding Chord Dimension

Front

Molding 3-dimensional view

Molding Assembly Cross-Section View

For PRICING ➤ See Section D.1 in our current Wholesale Pricing Catalog.
Convex Overlay Door & Face Frame - Detail

Radius, Back of Door
(Inches = Radius Minus \( \frac{3}{4}" \))
(mm = Radius Minus 9.525 mm)

Radius, Back of Frame
(Inches = Radius Minus 1 \( \frac{1}{4}" \))
(mm = Radius Minus 31.75 mm)

\( \frac{3}{4}" \) [19 mm]

Overlap Face Frame Detail

Gap Between Door & Frame
\( \frac{3}{4}" \) [3 mm]

Radius, Face of Frame
(Inches = Radius Minus \( \frac{1}{2}" \))
(mm = Radius Minus 12.70 mm)

Radius, Face of Door
(Inches = Radius Plus \( \frac{3}{4}" \))
(mm = Radius Plus 9.525 mm)

WalzCraft Radius
(Center of Door)
(Inches: 12", 21", 36", etc.)
(mm: 304.8, 533.4, 914.4, etc.)

Convex Overlay Face Frame

Conical Overlay Face Frame

Convex Overlay or Inset Door

Convex Overlay Pair of Doors

This drawing is to scale.

For PRICING
See Section D.1 in our current Wholesale Pricing Catalog.
Convex Overlay Molding & Face Frame - Detail

Radius, Back of Face Frame
(Inches = Radius Minus 1 ¼")
(mm = Radius Minus 31.75mm)

½” [19mm]

Radius, Face of Face Frame & Back of Molding
(Inches = Radius Minus ½")
(mm = Radius Minus 12.70mm)

Overlay Face Frame Detail

Radius, Face of Molding
(Inches = Radius Plus 1½")
(mm = Radius Plus 39.404mm)

WalzCraft Radius
(Center of Door)
(Inches: 12”, 21”, 36”, etc.)
(mm: 304.8, 533.4, 914.4, etc.)

For PRICING
See Section D.1 in our current Wholesale Pricing Catalog.
Convex/Concave Options

This drawing is to scale.

Concave Inset Door & Face Frame - Detail

A Custom Angle Cut Will Be Needed on the Left and/or Right Door Stile(s) to Ensure the Doors Can Open & Close Properly

Inset F.F. Detail

Face of F.F.

Inset Door Detail

Face of Door

\[ \frac{3}{4}'' \text{ [19mm]} \]

\[ \frac{1}{8}'' \text{ [3mm]} \] Gap Between Door & Frame

Radius, Face of Door & Face of Face Frame
(Inches = Radius Minus \( \frac{3}{8}'' \))
(mm = Radius Minus 9.525mm)

Radius, Back of Door & Back of Face Frame
(Inches = Radius Plus \( \frac{3}{8}'' \))
(mm = Radius Plus 9.525mm)

WalzCraft Radius
(Center of Door)
(Inches: 12", 21", 36", etc.)
(mm: 304.8, 533.4, 914.4, etc.)

For PRICING
See Section D.1 in our current Wholesale Pricing Catalog.
Concave Inset Door & Face Frame - Detail

A Custom Angle Cut Will Be Needed on the Left and/or Right Door Stile(s) to Ensure the Doors Can Open & Close Properly

½” [3mm] Gap Between Door & Frame

¾” [19mm] Concave F.F. Detail

Face of F.F.

Inset Door Detail

Radius, Face of Door, Face of Face Frame & Back of Molding
(Inches = Radius Minus ¾”)
(mm = Radius Minus 9.525mm)

Radius, Back of Door & Back of Face Frame
(Inches = Radius Plus ¾”)
(mm = Radius Plus 9.525mm)

WalzCraft Radius
(Center of Door)
(Inches: 12”, 21”, 36”, etc.)
(mm: 304.8, 533.4, 914.4, etc.)

2½” [52mm] #2179

Face of Molding

Inset Molding Detail

Radius, Face of Molding
(Inches = Radius Minus 2½”)
(mm = Radius Minus 61.629mm)

Molding 3-dimensional view

Molding Assembly Cross-Section View

► For PRICING ► See Section D.1 in our current Wholesale Pricing Catalog.
Convex/Concave Options

Concave Ordering Information

This drawing is to scale.

Convex/Concave Options

- For PRICING See Section D.1 in our current Wholesale Pricing Catalog.

Radius, Back of Face Frame
( Inches = Radius Plus 1/4"
(mm = Radius Plus 31.75mm)

Radius, Back of Door
( Inches = Radius Plus 3/4"
(mm = Radius Plus 9.525mm)

Radius, Face of Face Frame
( Inches = Radius Plus 1/4"
(mm = Radius Plus 12.70mm)

WalzCraft Radius
(Center of Door)
( Inches: 12", 21", 36", etc.)
(mm: 304.8, 533.4, 914.4, etc.)

Radius, Face of Door
( Inches = Radius Minus 3/4"
(mm = Radius Minus 9.525mm)

Concave Overlay Door & Face Frame - Detail

Overlap Door Detail

Face

3/4" [19mm]
Gap Between Door & Frame

3/4" [3mm]

Concave Overlay Face Frame

Front

Radius Dimension
(Center of Door)

Concave Overlay Face Frame

Overall Door Chord Dimension

Front

Radius Dimension
(Center of Door)

Concave Overlay Pair of Doors

Gap Dimension

Concave Overlay or Inset Door

Door Chord Dimension

Front

Radius Dimension
(Center of Door)
Concave Ordering Information

Concave Overlay - Door, Face Frame & Molding - Ordering Information

Concave Overlay Door & Face Frame - Detail

Radius, Back of Face Frame
(Inches = Radius Plus 1 ⅛")
(mm = Radius Plus 31.75mm)

Radius, Face of Face Frame & Back of Molding
(Inches = Radius Minus ½")
(mm = Radius Minus 12.70mm)

WalzCraft Radius
(Center of Door)
(Inches: 12", 21", 36", etc.)
(mm: 304.8, 533.4, 914.4, etc.)

For PRICING See Section D.1 in our current Wholesale Pricing Catalog.

99.7% American Made
Convex/Concave Options

### Convex / Concave - General Information

WalzCraft offers all of the sizes listed below as standard radii for “Traditional”, “Mitered”, Raw MDF Style 500 and Veneered Style 60 Curved Products.

- All Radii are based on ¾” [19.1mm] thick doors.
- All Radii are calculated to the center of a ¾” [19.1mm] thick door.
- (*) indicates the only radius options available for Door Styles 20, 30, 2000, 2020, 2500, 2525, 3030, 3500, 3535, 4000, 5000. (These door styles also have a maximum rail width of 23”).
- Please refer to Sections E.9 - E.11 for Mitered/French Mitered Profile options available on Curved Products.
  - [ ] = Profile available on Curved doors.  [ ] = Profile available on French Miter doors.
  - Door styles 10FM and 10FM* are only available in radii 12” and greater.

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- For PRICING See Section D.1 in our current Wholesale Pricing Catalog.
### Convex / Concave - General Information

#### Convex/Concave Options

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<th>Ordering &amp; Pricing Notes: Convex/Concave Products</th>
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<tr>
<td>Ordering Guidelines</td>
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<tr>
<td>1 Order Forms</td>
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<td>Please use one of the following order forms where applicable:</td>
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<td>• Curved Door Order Form (E•Z Form #11)</td>
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<td>• Curved Drawer Front Order Form (E•Z Form #11.1)</td>
</tr>
<tr>
<td>• Assembled Curved Face Frame Order Form (E•Z Form #11.2)</td>
</tr>
<tr>
<td>• Curved Molding Order Form (E•Z Form #11.3)</td>
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<td>2 Gap Dimension</td>
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<tr>
<td>The following information must be noted when placing an order for curved products:</td>
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<tr>
<td>• The gap dimension between a pair of doors for Convex or Concave overlay.</td>
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<tr>
<td>• The gap dimension between a door and face frame for Convex or Concave inset.</td>
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### Technical Notes: Convex/Concave Products

#### Cabinet Door & Drawer Front Options (Chapter B)

1 Raised Panel Styles

  - Vertical grain only.
  - Door Styles 20, 2000, 2020, 2500, 2525, 4000 are only available with a 12", 18" or 24" radius, have a maximum rail width of 23", and are not available with applied moldings.
  - Door styles 10FM, 10FM* are only available in radii 12" or greater.
  - Frame only and mullion lite pattern options in these door styles are also available.
    - Only available with the following lite pattern options: LP001, LP108, LP109, LP110, LP118.

2 1/4" Flat Panel Styles

  - Vertical or horizontal grain.
  - Door and drawer front styles with a 1/4" flat center panel are only available in radii 12" or greater.
  - Door styles 30, 3000, 3030, 3500, 3535, 5000 are only available with a 12", 18" or 24" radius, have a maximum rail width of 23", and are not available with applied moldings.
  - Door styles 40FM, 40FM* are only available in radii 12" or greater.
  - Frame only and mullion lite pattern options in these door styles are also available.
    - Only available with the following lite pattern options: LP001, LP108, LP109, LP110, LP118.

3 Solid Wood Slab Styles

- Only available with styles 1270, 1270*, 34SQA* and 100SQE*.
  - Vertical grain only.
  - The radius may be affected by expansion, contraction and moisture issues.
  - Style #1270 doors are constructed with NO battens.
  - Convex/Concave solid wood slab styles will carry no warranty against warpage.

4 Veneered MDF Slab Styles

- Only available with styles 60 and 60*.
  - Vertical or horizontal grain.
  - Only available with Edgeband Treatment options EBT201, EBT201-R, EBT401 and EBT401-R.

5 Raw MDF Slab Styles

- Only available with styles 500 and 500*.

### Convex / Concave Options (Chapter D)

1 Identifying Curved Products

- This symbol ☐ is used throughout the catalog to represent profiles and options that are available when ordering Convex/Concave Products.

### Design Options (Chapter G)

1 Center Panel Face Routing

- All Center Panel Face Rout options are available, but limited to Convex products only.

1 Decorative Inserts

- The Butterfly Insert (BI100) is not an option for a Curved Product.

*For PRICING* See Section D.1 in our current Wholesale Pricing Catalog.
## Convex / Concave - General Information

### Technical Notes: Convex/Concave Products...continued

#### Face Frame Options (Chapter J)

| 1 | Face Frame Construction | Convex/Concave Face Frames with a radius of 24" or greater will be constructed with Pocket Screw Joinery. Convex/Concave Face Frames with a radius under 24" will be constructed with Domino Tenon Joinery where all rails meet the stiles. • Pocket Screw joinery will be used where center stiles meet the rails. All face frame profile options (FS100-FS108) are available with assembled Convex/Concave face frames. • Please see Section J.1 for additional profile information. • WalzCraft does not offer individual face frame components (ie: top and/or bottom rail only) for use with Convex/Concave configurations. ◦ WalzCraft must assemble all Convex/Concave face frames, rather than the customer, because there is a high risk of individual components warping and/or twisting if left unassembled for any length of time. Convex/Concave face frames are not available Ready to Assemble (RTA). |

#### Finish Options (Chapter R)

| 1 | 3D Laminate (RTF) | 3D Laminate (RTF) is not an option for Curved Products. |

#### Functional Options (Chapter F)

| 1 | Hinge Boring | Convex/Concave doors and drawer fronts are only available with HBP100. Please see Section F.1 for additional hinge boring requirements, ordering instructions and compatibility. |

#### General Information (Chapter A)

| 1 | Standard and Non-Standard Part Sizes | Stiles & Rails for doors, drawer fronts and face frames can be ordered from 1½" [38.1mm] wide to 4½" [114.3mm] wide, in ¼" [6.4mm] increments and will not be subject to additional charges. Stiles & Rails ordered in widths outside of these dimensions will incur a Non-Standard Part Size charge. See Section A.5 for more information. |

#### Profile Options

| 1 | Center Panel Grain Direction Options | WalzCraft prefers that ALL convex/concave solid wood slabs and solid wood center panels have a vertical grain direction, including paint grades, to help ensure quality and avoid any warping, cupping or twisting that may occur. Center panels with vertical grain are available in: • ⅜" [6.4mm] flat panel wood veneers • ⅜" [15.9mm] solid wood raised panels • ⅛" [9.5mm] RVSCP-PR324 (Reversed Solid Center Panel) Profile RVSCP-PR324 reversed center panels are also available in ⅜" [9.5mm] Raw MDF or MEDEX® NAUF - MDF, Raw. Raw MDF is not an option for any other ⅜" [15.9mm] solid wood raised center panel profile. ⅜" [19.1mm] thick, convex/concave raised panel doors using a ⅜" [15.9mm] thick profiled center panel, will have a center panel that is flush with the stiles and rails on the face only. • The center panel will be recessed below the stiles and rails on the back side of the door. Horizontal grain will only be available with: • ¼" [6.4mm] Flat Panel wood veneer doors and drawer fronts. ◦ Only available for radii 12" [304.8mm] or greater. ◦ Only available for arc lengths 31½" [800mm] or less. ◦ Maximum interior visual opening height is 47⅛" [1197mm]. • Style 60 Slab veneer doors |

#### Pre-Finishing Options

| 2 | Finishing Options for convex/concave doors or drawer fronts with Vertical grain on the center panel: | Finishing Options for convex/concave doors or drawer fronts with Horizontal grain on the center panel: • Stain Pre-finishing • Priming for Paint only • SolidTone® finish • SolidTone® WoodGrain |

**Notes Continued on Next Page...**

► For PRICING ► See Section D.1 in our current Wholesale Pricing Catalog.
### Technical Notes: Convex/Concave Products...continued

<table>
<thead>
<tr>
<th>Sizes / Dimensions</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1 Thickness</strong></td>
<td>Available in ¾&quot; [19.1mm], 1&quot; [25.4mm], 1¼&quot; [31.8mm] and 1½&quot; [38.1mm] thicknesses. Raw MDF or MEDEX®NAUF - MDF, Raw Style 500 and 500* are only available in a ¾&quot; [19.1mm] thickness.</td>
</tr>
<tr>
<td><strong>2 Door / Face Frame Maximum Height</strong></td>
<td>Maximum height for doors and face frames is 96&quot; [2438.4mm].</td>
</tr>
<tr>
<td><strong>3 6&quot; Radii</strong></td>
<td>Due to the small size of parts with a 6&quot; radius, additional charges may be incurred to construct fixtures to hold parts, or to use alternate sanding and assembly methods.</td>
</tr>
<tr>
<td><strong>4 Maximum Rail Size</strong></td>
<td>The maximum rail height for Convex/Concave doors and drawer fronts is 13&quot;.</td>
</tr>
</tbody>
</table>

*For PRICING* | See Section D.1 in our current Wholesale Pricing Catalog.