



Sketch Tools & End Conditions (Level 2)

Units: MMGS

Difficulty Level: MediumCertification: CSWA

Duration (min): 10

Design Intent:

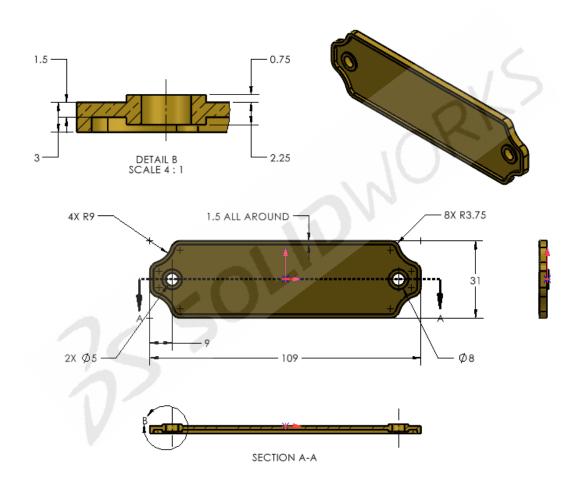
 The part's origin location is indicated in red.

The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

- Sketch: Lines, Centerlines, Circles, Sketch Fillets
- · Features: Extrude Boss









Sketch Tools & End Conditions (Level 2)

Units: MMGS

Difficulty Level: MediumCertification: CSWADuration (min): 10

Design Intent:

 The part's origin location is indicated in red.

• The part is asymmetric.

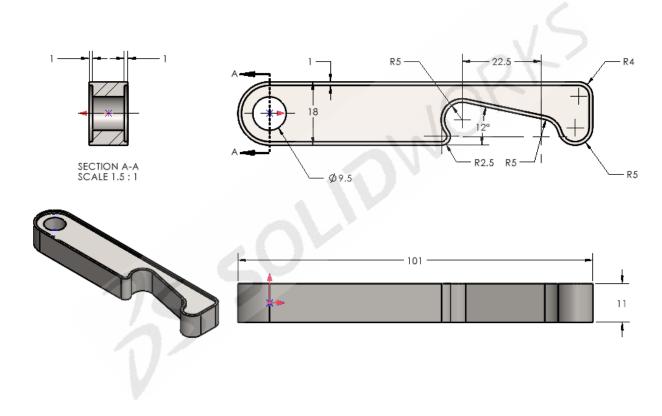
All sketches are fully-defined.

Suggested Sketch Tools / Features

• Sketch: Lines, Centerlines, Circles, Sketch Fillets

• Features: Extrude Boss

HINT: Edge thickness is constant.









Sketch Tools & End Conditions (Level 2)

Units: MMGS

Difficulty Level: MediumCertification: CSWADuration (min): 10

Design Intent:

 The part's origin location is indicated in red.

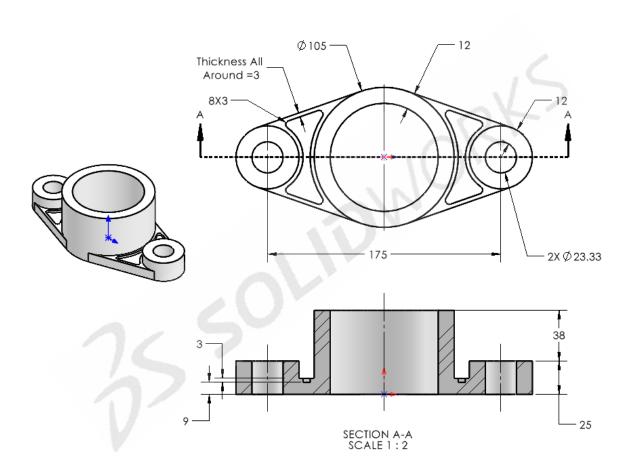
o The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

 Sketch: Lines, Centerlines, Circles, Arcs, Offset Entities

Features: Extrude Boss









Sketch Tools & End Conditions (Level 2)

Units: MMGS

Difficulty Level: MediumCertification: CSWADuration (min): 15

Design Intent:

 The part's origin location is indicated in red.

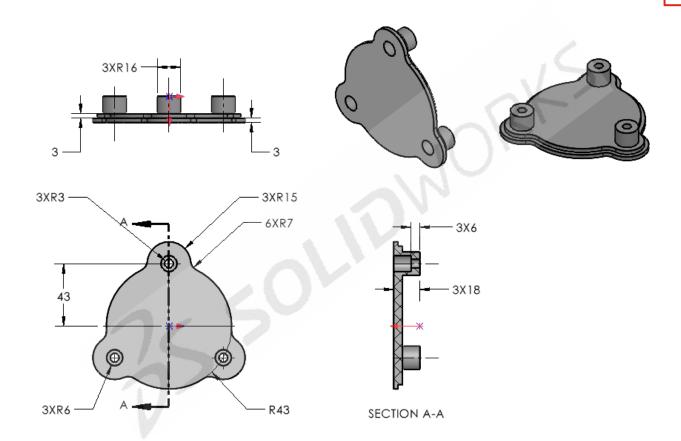
The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

• Sketch: Lines, Centerlines, Circles, Arcs

Features: Extrude Boss









Sketch Tools & End Conditions (Level 2)

Units: MMGS

Difficulty Level: MediumCertification: CSWADuration (min): 15

Design Intent:

 The part's origin location is indicated in red.

• The part is asymmetric.

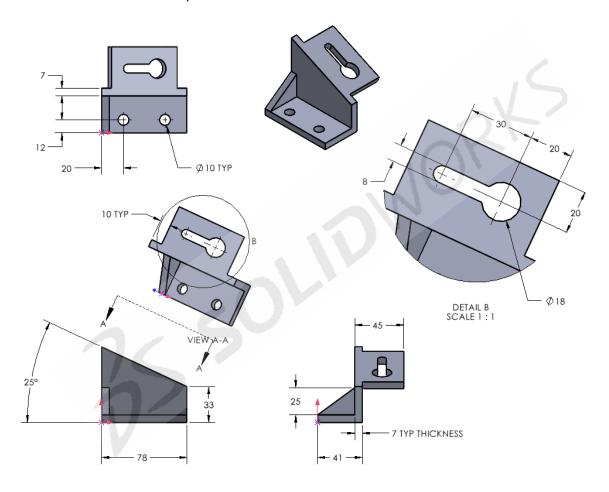
o All sketches are fully-defined.

Suggested Sketch Tools / Features

• Sketch: Lines, Centerlines, Circles, Slots

· Features: Extrude Boss

HINT: Plane is not required. Sketch on the angled face of the extrusion.









Sketch Tools & End Conditions (Level 2)

Units: MMGS

Difficulty Level: MediumCertification: CSWADuration (min): 20

Design Intent:

 The part's origin location is indicated in red.

• The part is asymmetric.

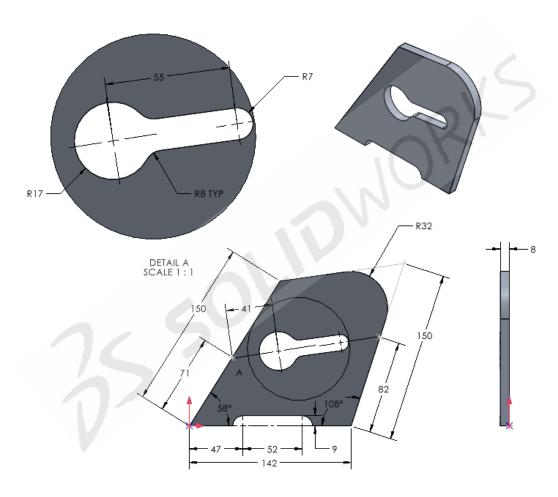
All sketches are fully-defined.

Suggested Sketch Tools / Features

• Sketch: Lines, Centerlines, Circles, Arcs, Slots

· Features: Extrude Boss

HINT: Use construction lines.









Sketch Tools & End Conditions (Level 2)

Units: MMGS

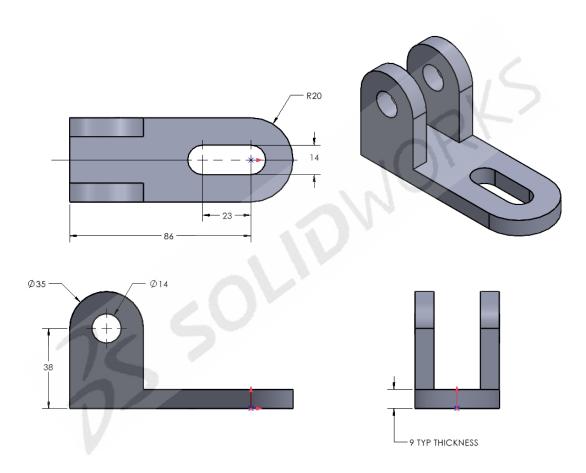
Difficulty Level: EasyCertification: CSWADuration (min): 15

Design Intent:

- The part's origin location is indicated in red.
- The part is symmetric.
- All sketches are fully-defined.

Suggested Sketch Tools / Features

- Sketch: Lines, Centerlines, Circles, Trim, Rectangles, Slots
- Features: Extrude Boss









Sketch Tools & End Conditions (Level 2)

Units: MMGS

Difficulty Level: EasyCertification: CSWADuration (min): 10

Design Intent:

The part's origin location is indicated in red.

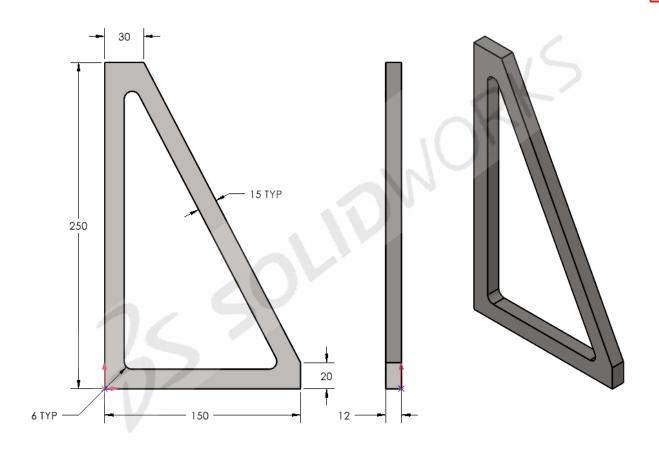
All sketches are fully-defined.

Suggested Sketch Tools / Features

 Sketch: Lines, Centerlines, Trim, Offset Entities

· Features: Extrude Boss

HINT: Offset from outer edge.









Sketch Tools & End Conditions (Level 2)

Units: MMGS

Difficulty Level: EasyCertification: CSWADuration (min): 10

Design Intent:

 The part's origin location is indicated in red.

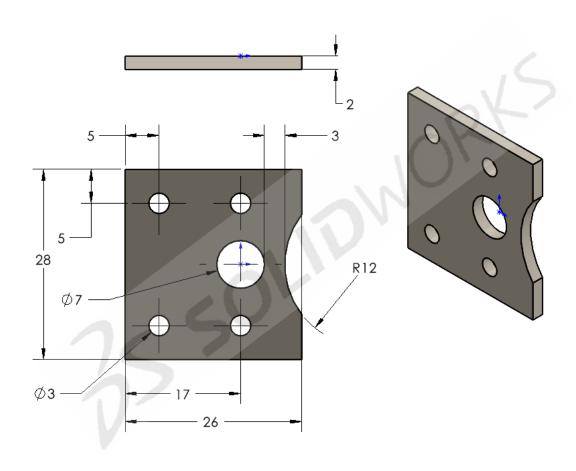
• The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

 Sketch: Lines, Centerlines, Circles, Trim, Rectangles

· Features: Extrude Boss









Sketch Tools & End Conditions (Level 2)

Units: MMGS

Difficulty Level: EasyCertification: CSWADuration (min): 10

Design Intent:

 The part's origin location is indicated in red.

The part is symmetric.

All sketches are fully-defined.

Suggested Sketch Tools / Features

 Sketch: Lines, Centerlines, Circles, Arc, Sketch Fillets, Trim

• Features: Extrude Boss

HINT: Start with circles, arcs, and lines and trim.

