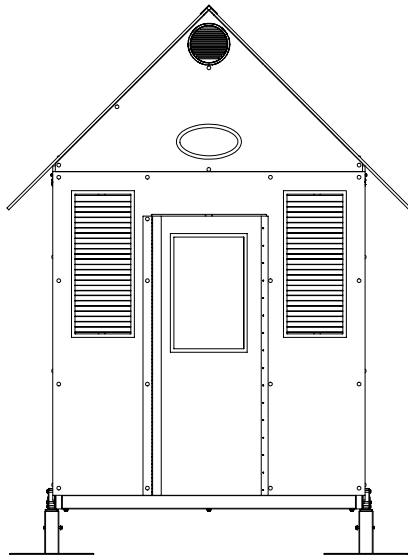
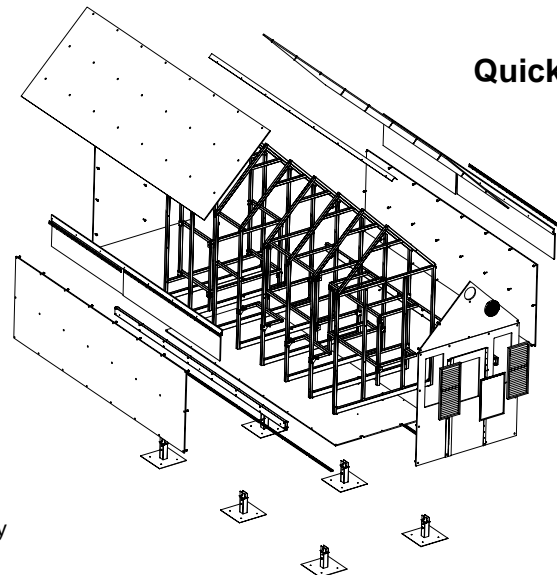


City plan flexible



Permanent or Reusable

Pingel Design Group Inc
Disaster Relief Housing
Hurricane & Earthquake Resistant



Quick Assembly

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Manufacturing Section

***Hurricane & Earthquake Resistant Disaster Relief Housing
Quick Assembly-Permanent or Reuseable-Social Planning Flexible***

Disaster Relief Housing Concept

Welded construction ready to bolt together

Earthquake rated to California liquefied soil

Hurricane rating number 5 (150 mph wind)

No maintenance

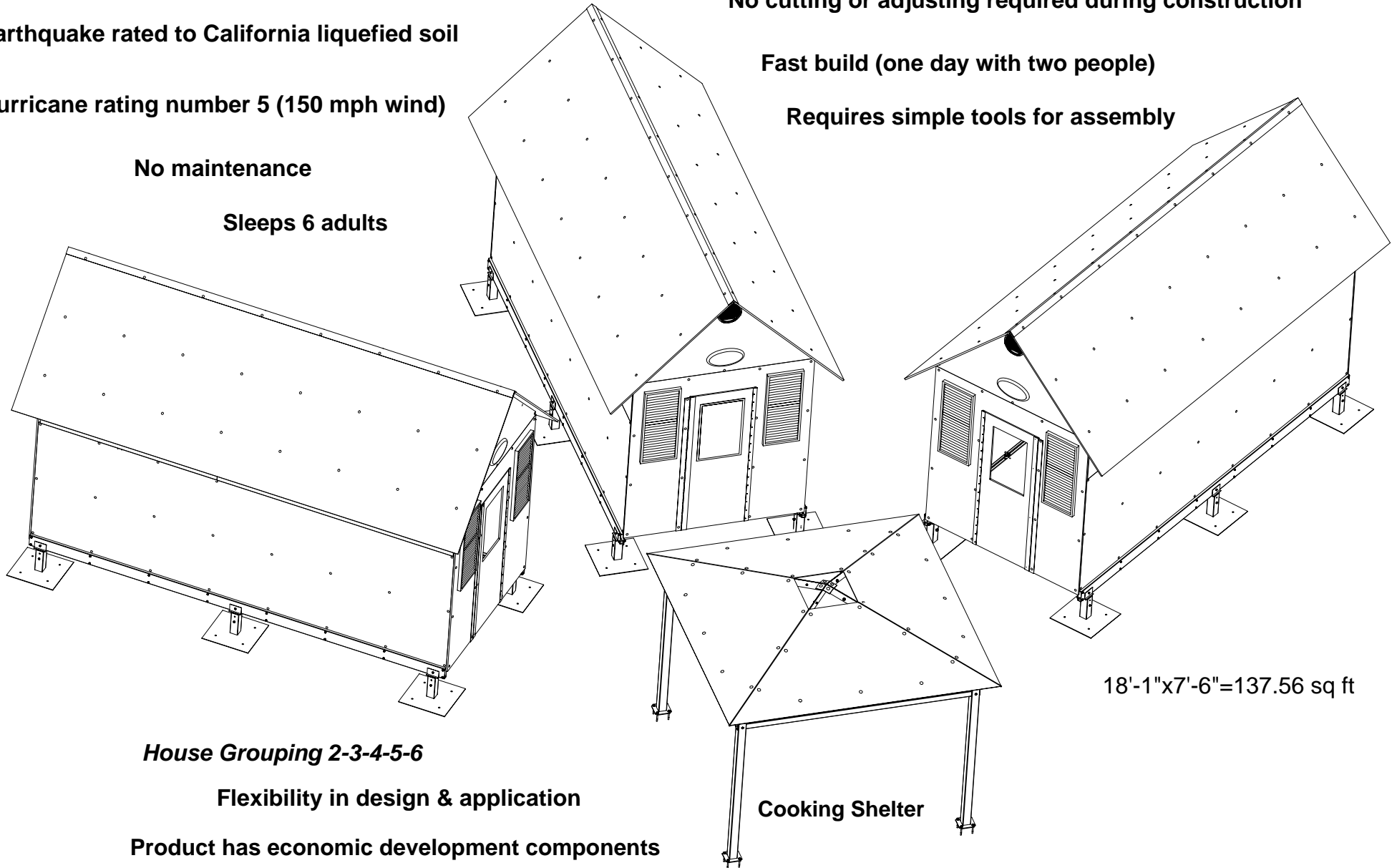
Sleeps 6 adults

Can be placed on the ground with or without foundation

No cutting or adjusting required during construction

Fast build (one day with two people)

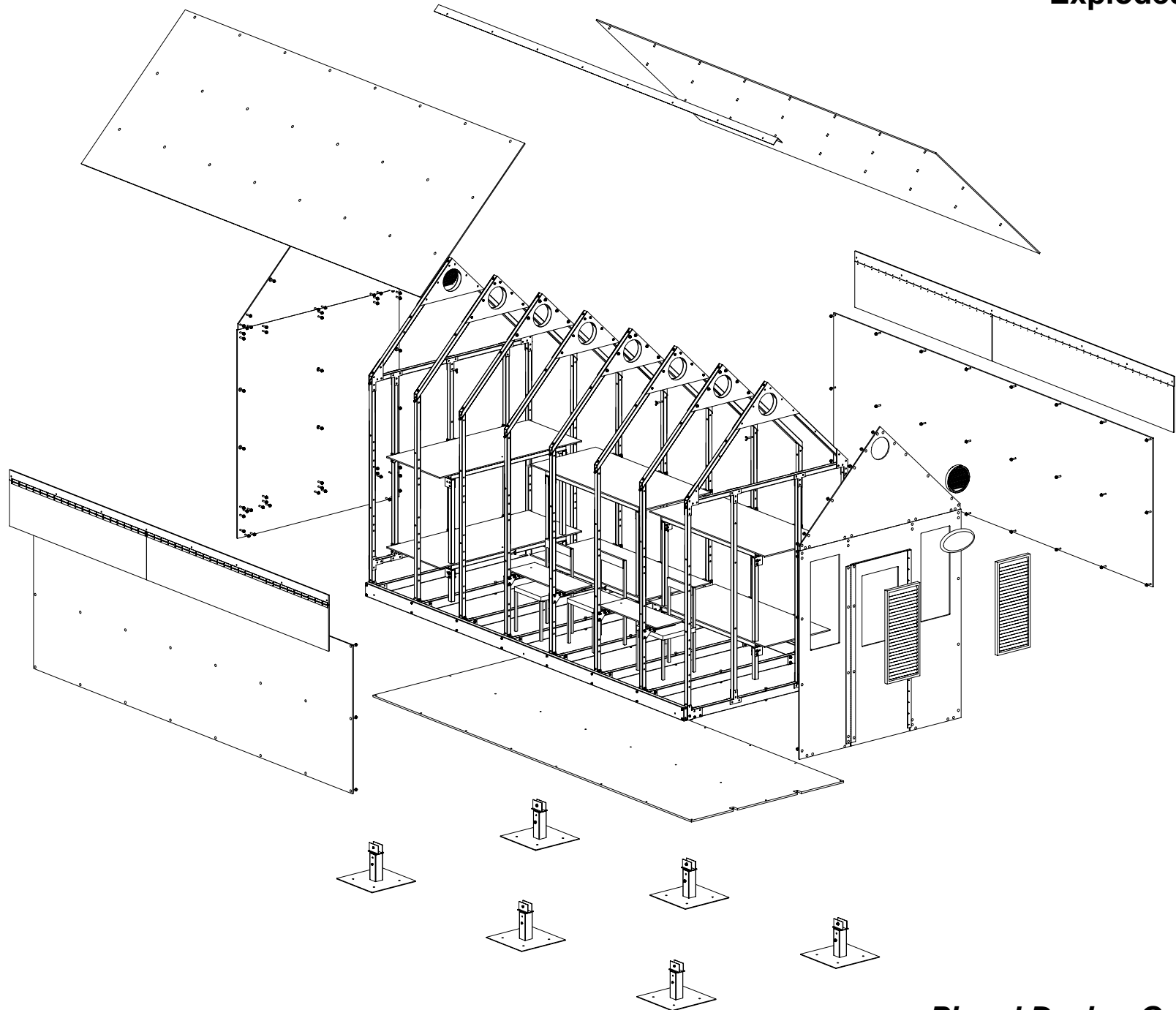
Requires simple tools for assembly



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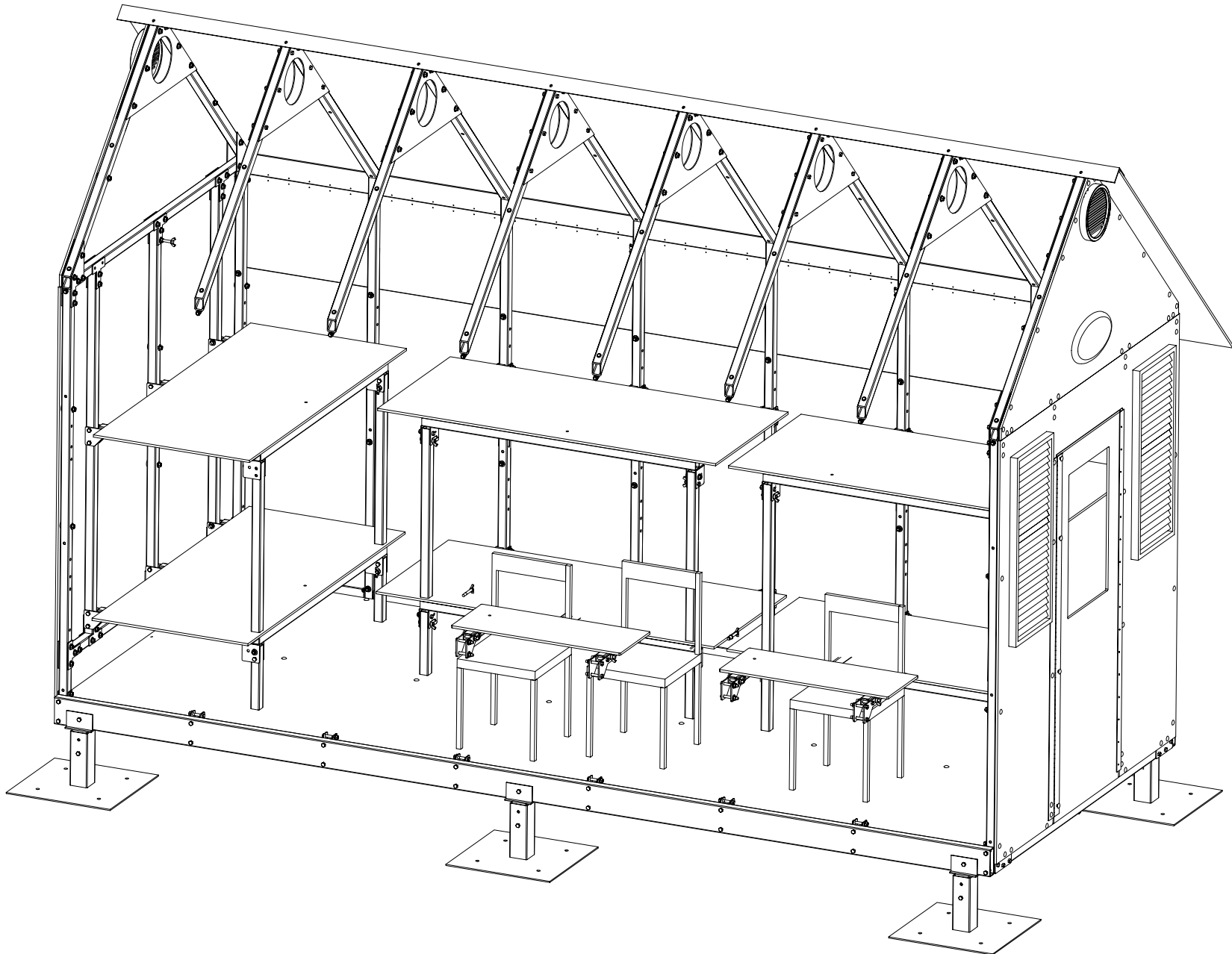
Exploded view



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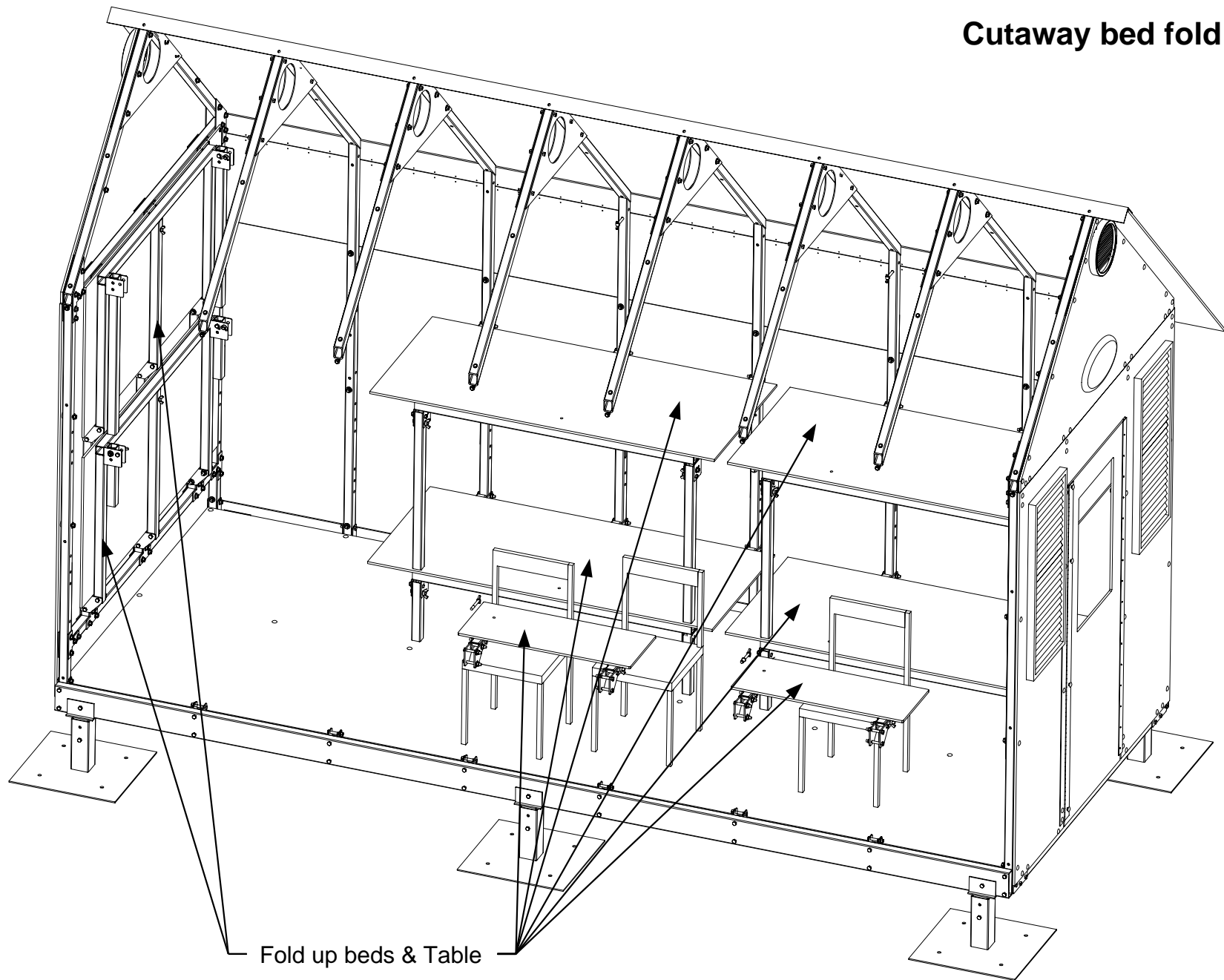
Cutaway view 1



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Cutaway bed fold up view 1

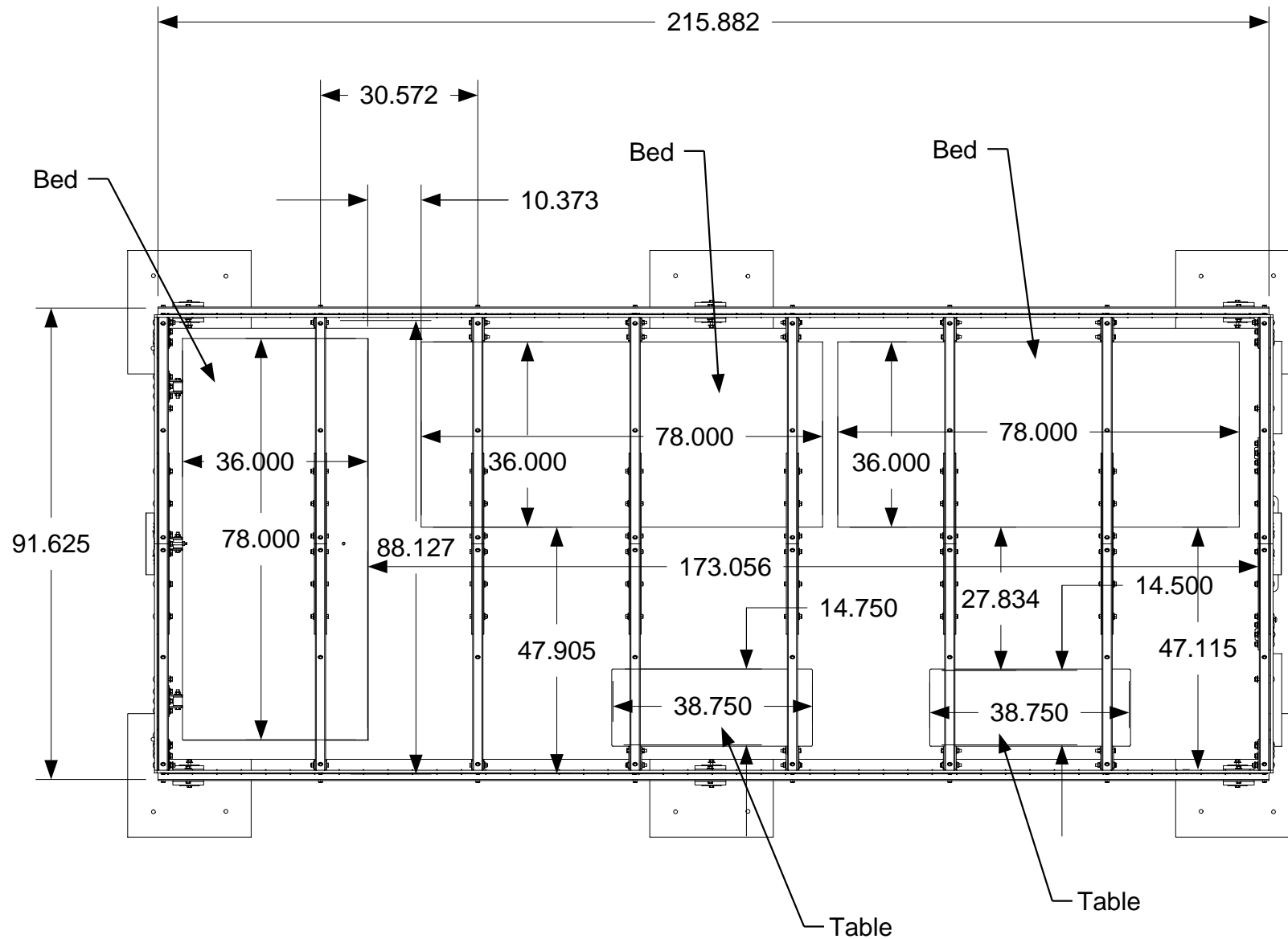


Fold up beds & Table

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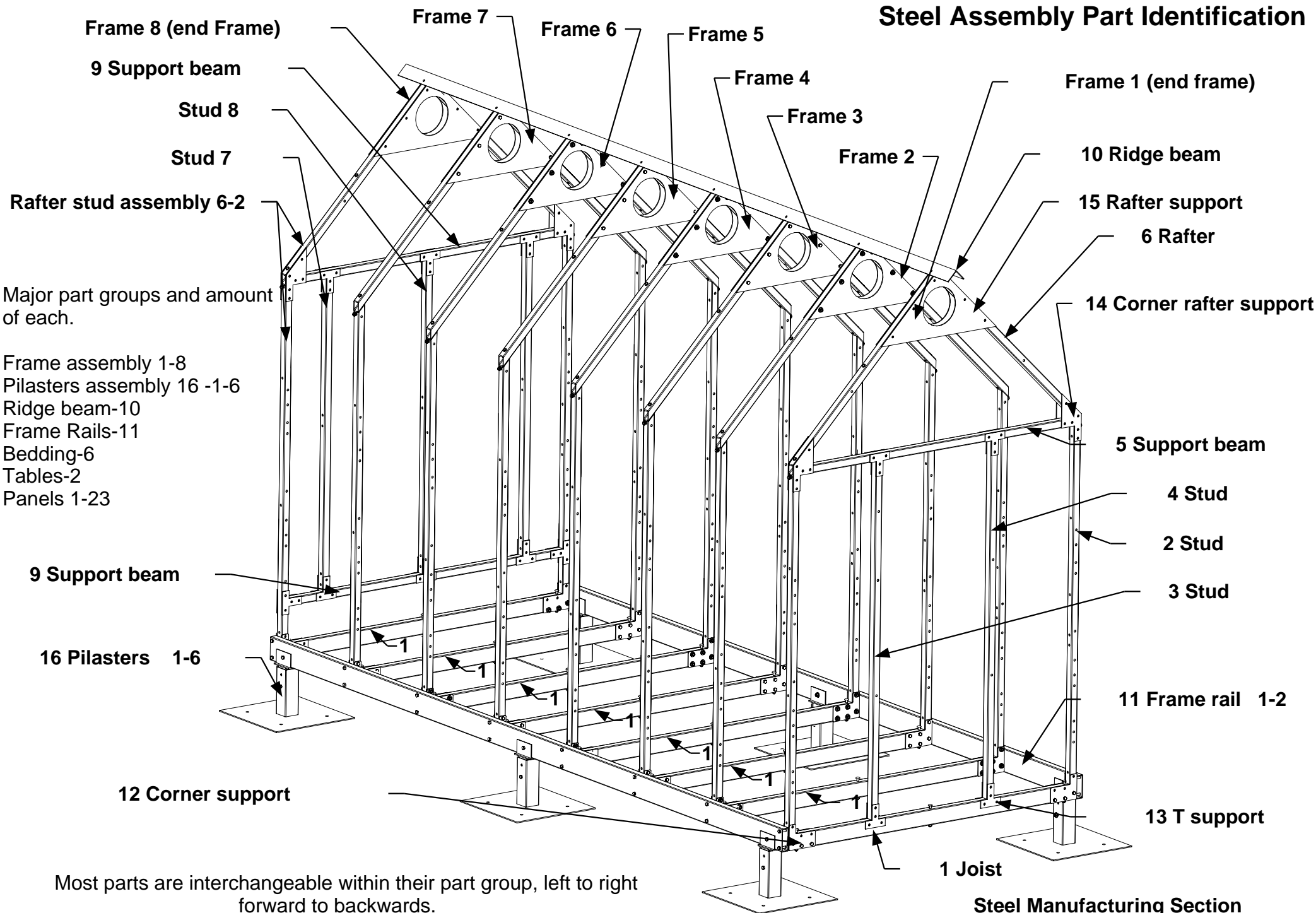
Plan view 1



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Steel Assembly Part Identification



Most parts are interchangeable within their part group, left to right forward to backwards.

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Steel Manufacturing Section

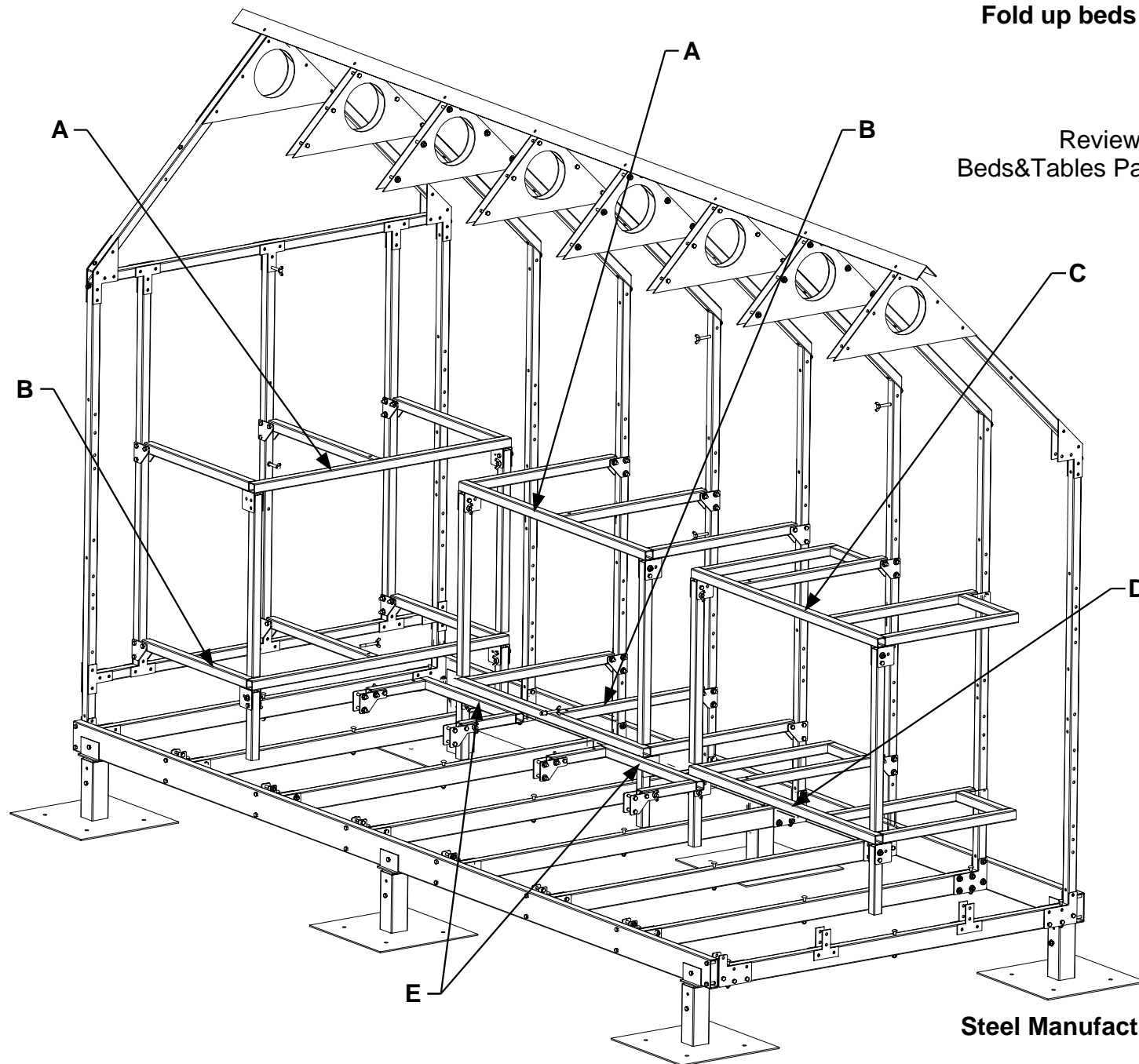
Pingel Design Group Inc
Hurricane and Earthquake Resistant
Disaster Relief Housing

Most parts are interchangeable within their part group, left to right
forward to backwards.

Steel Assembly Part Identification

Fold up beds & Tables

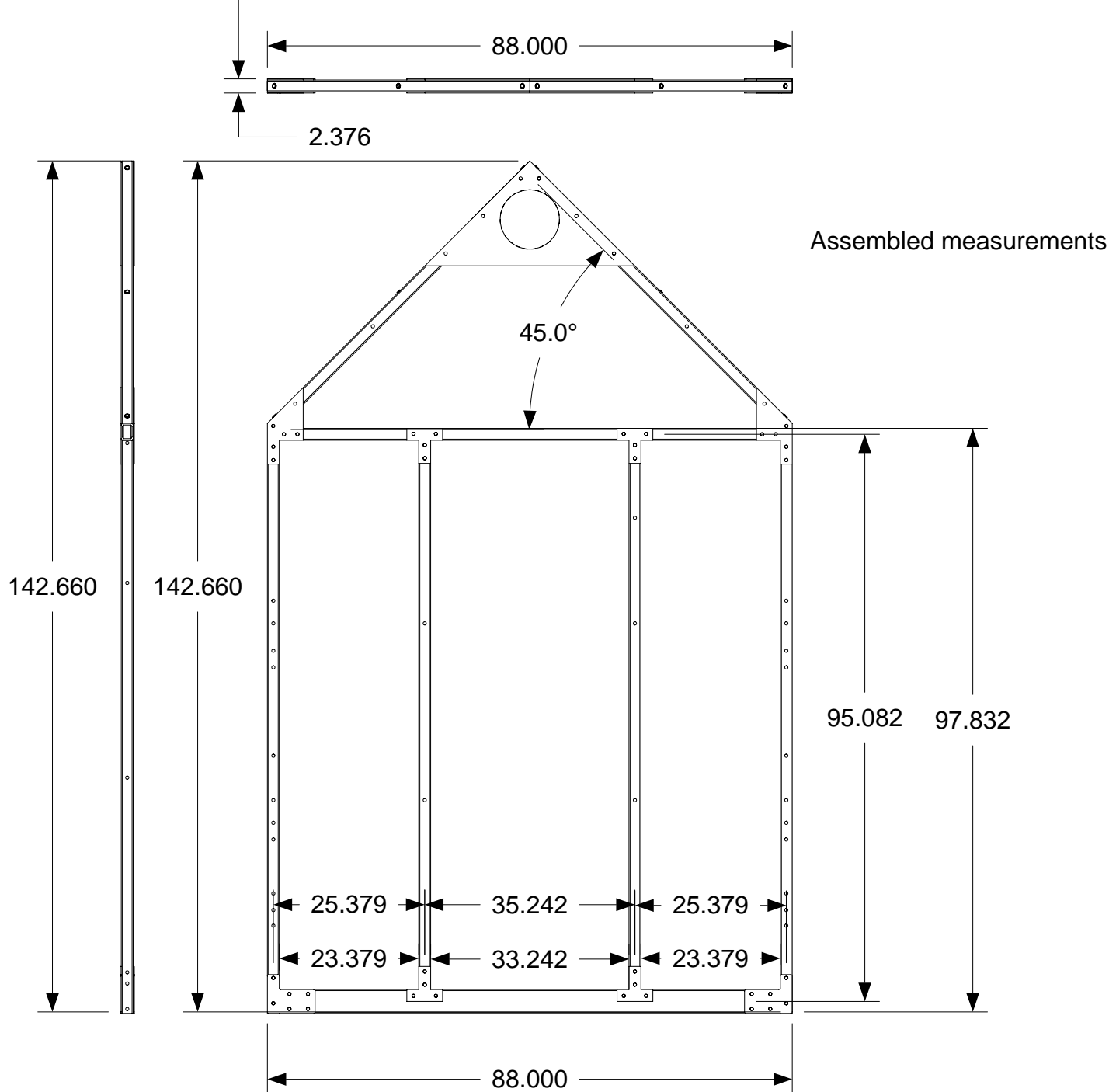
Review drawing 20
Beds&Tables Parts Identification 1-12



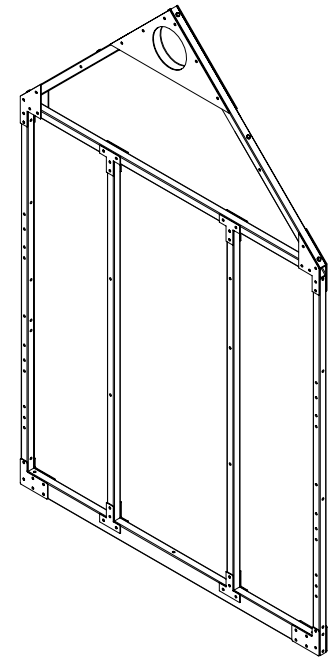
Steel Manufacturing Section

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Frame assembly 1

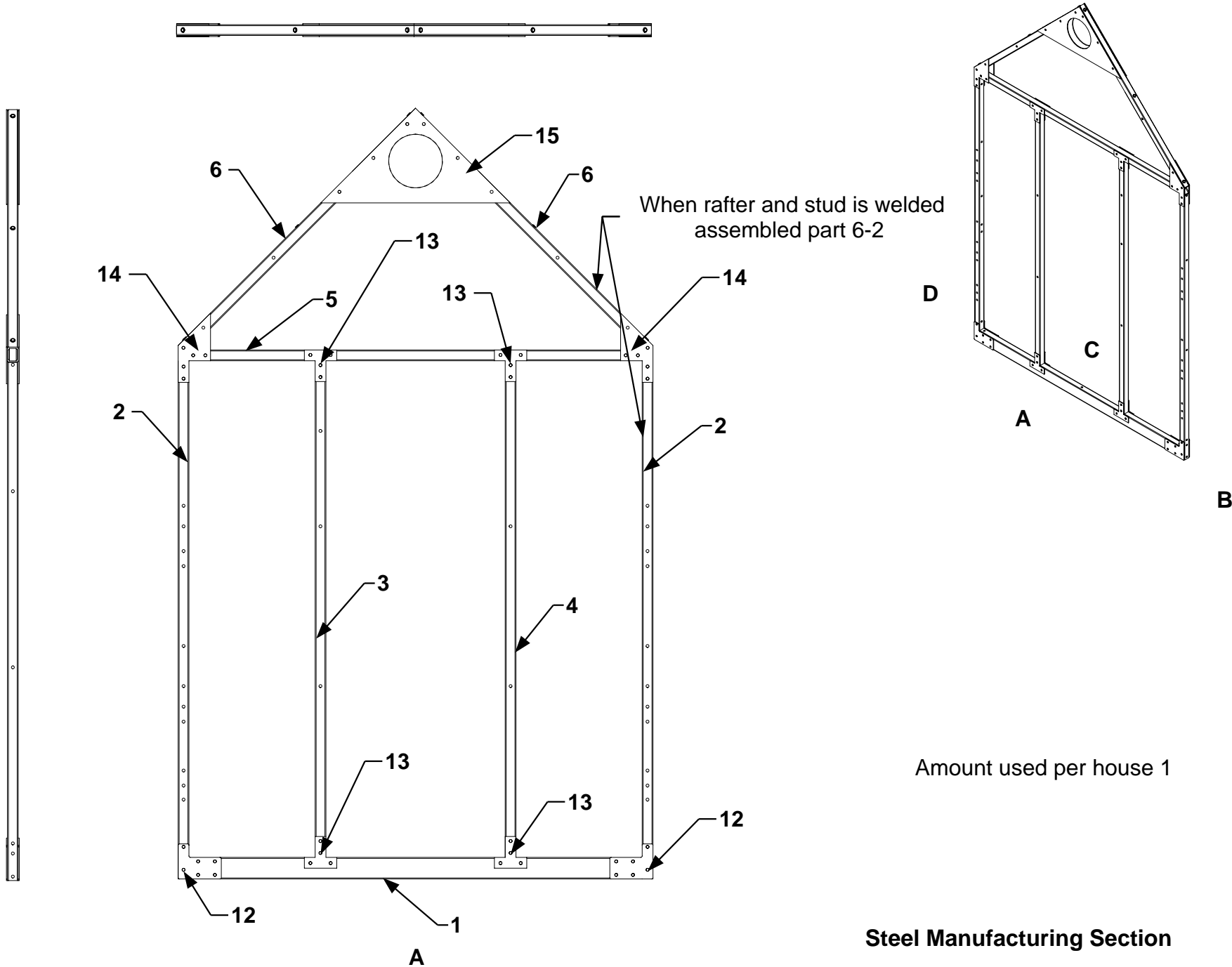


Hardware:
 Bolt: Hex-0.5x3.0
 Nut: Standard-0.5x0.4375
 Washer: Plan-0.5x0.1
 Amount used on Frame 1 - 46 sets

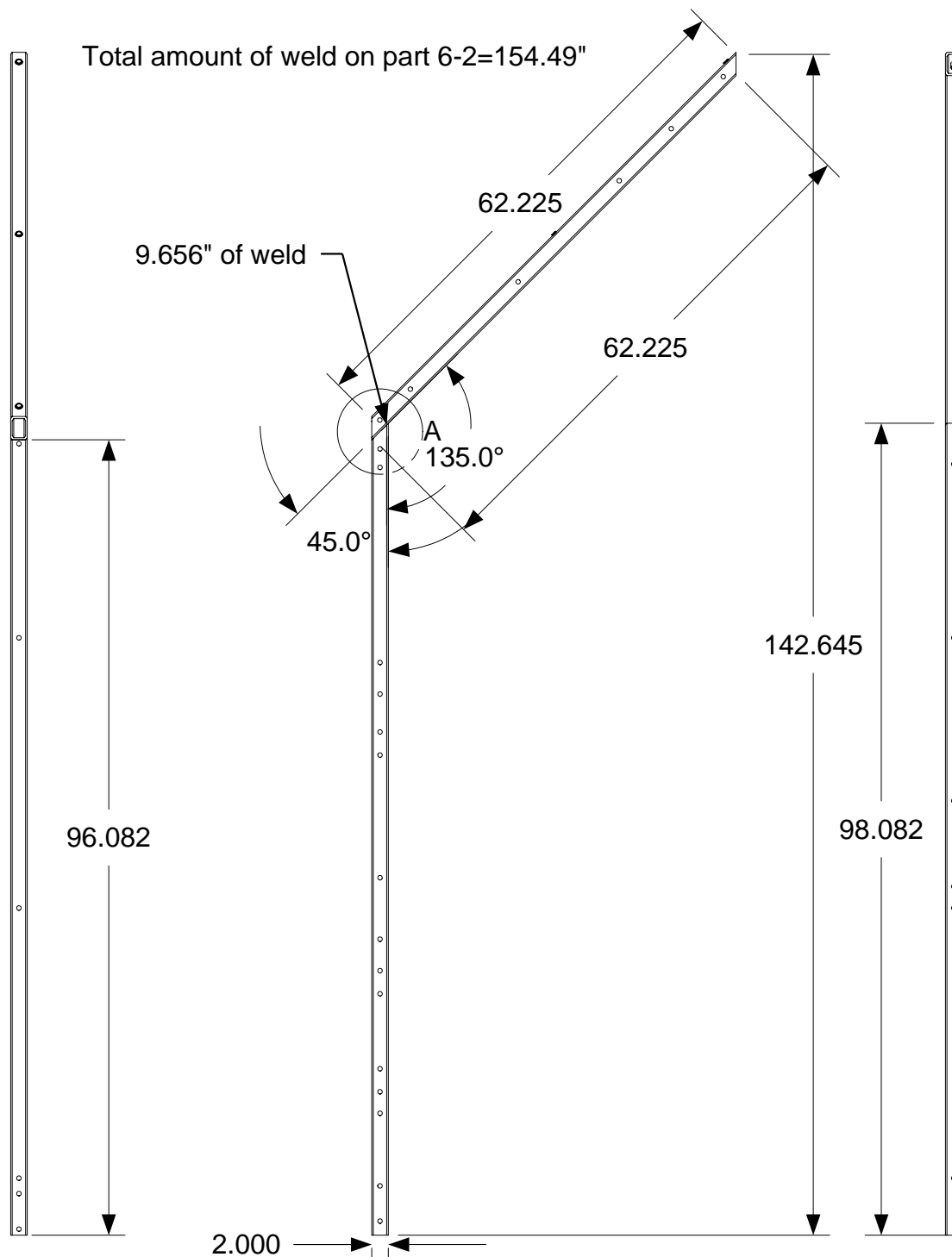
Amount used per house 1

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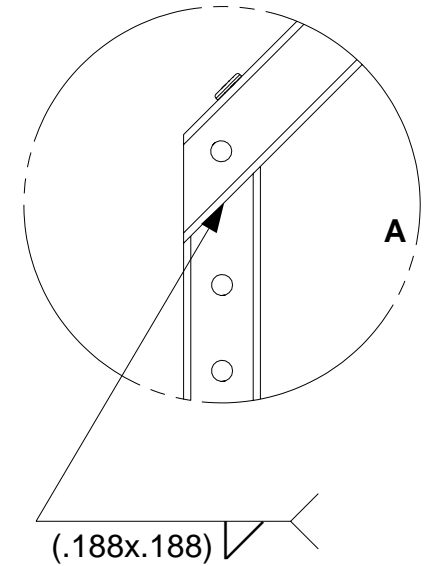
Steel Manufacturing Section
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Disaster Relief Housing



Amount used per house 1



rafter stud assembly 6-2



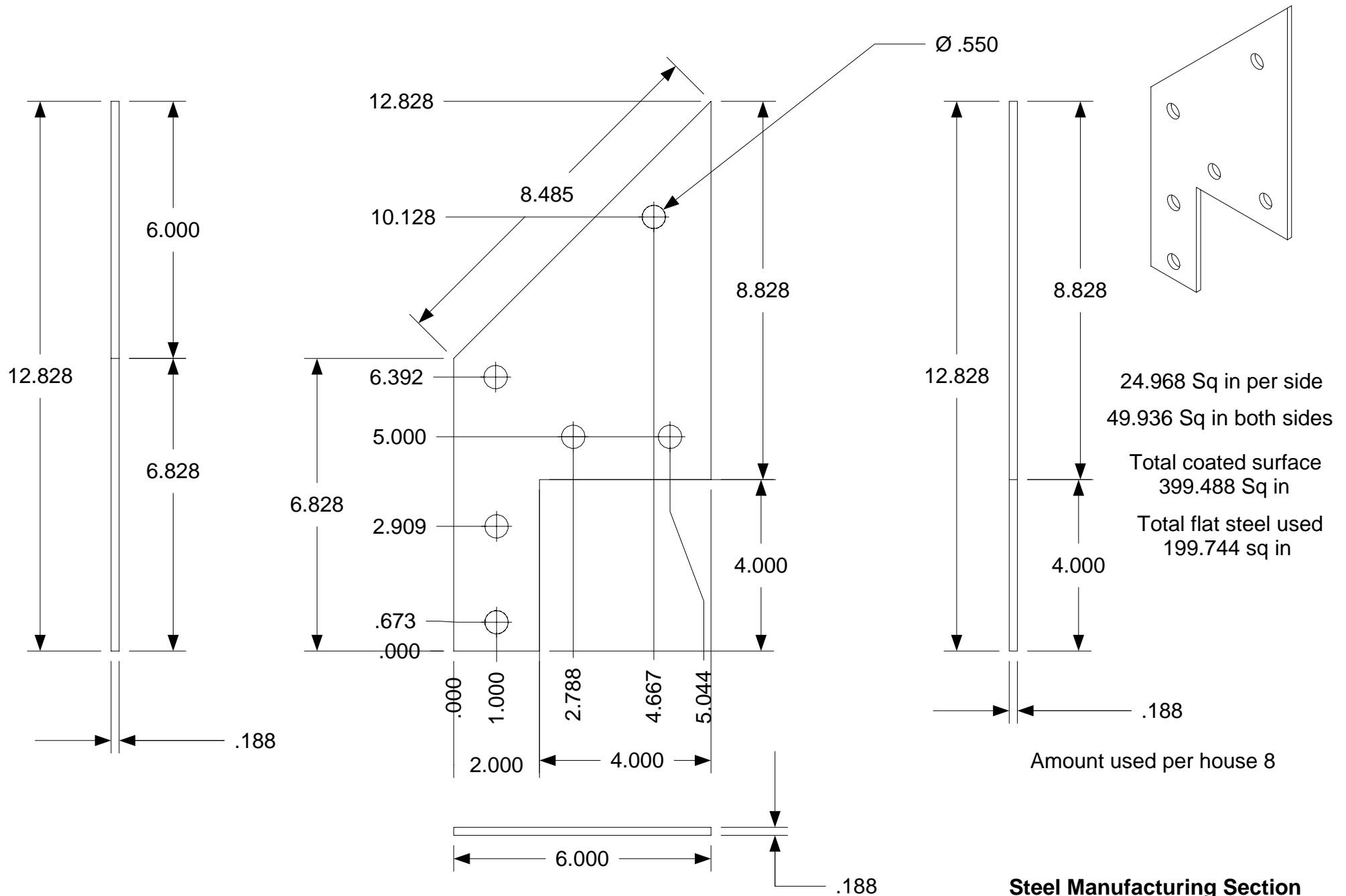
Each rafter stud assembly 6-2 parts can be used on every frame 1-8. The parts are siamese.

Amount used per house 16

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Corner rafter support #14



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All corner supports are interchangeable

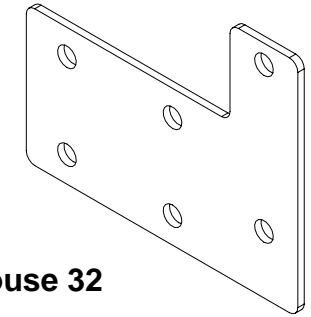
Corner support #12

37 Sq in per side

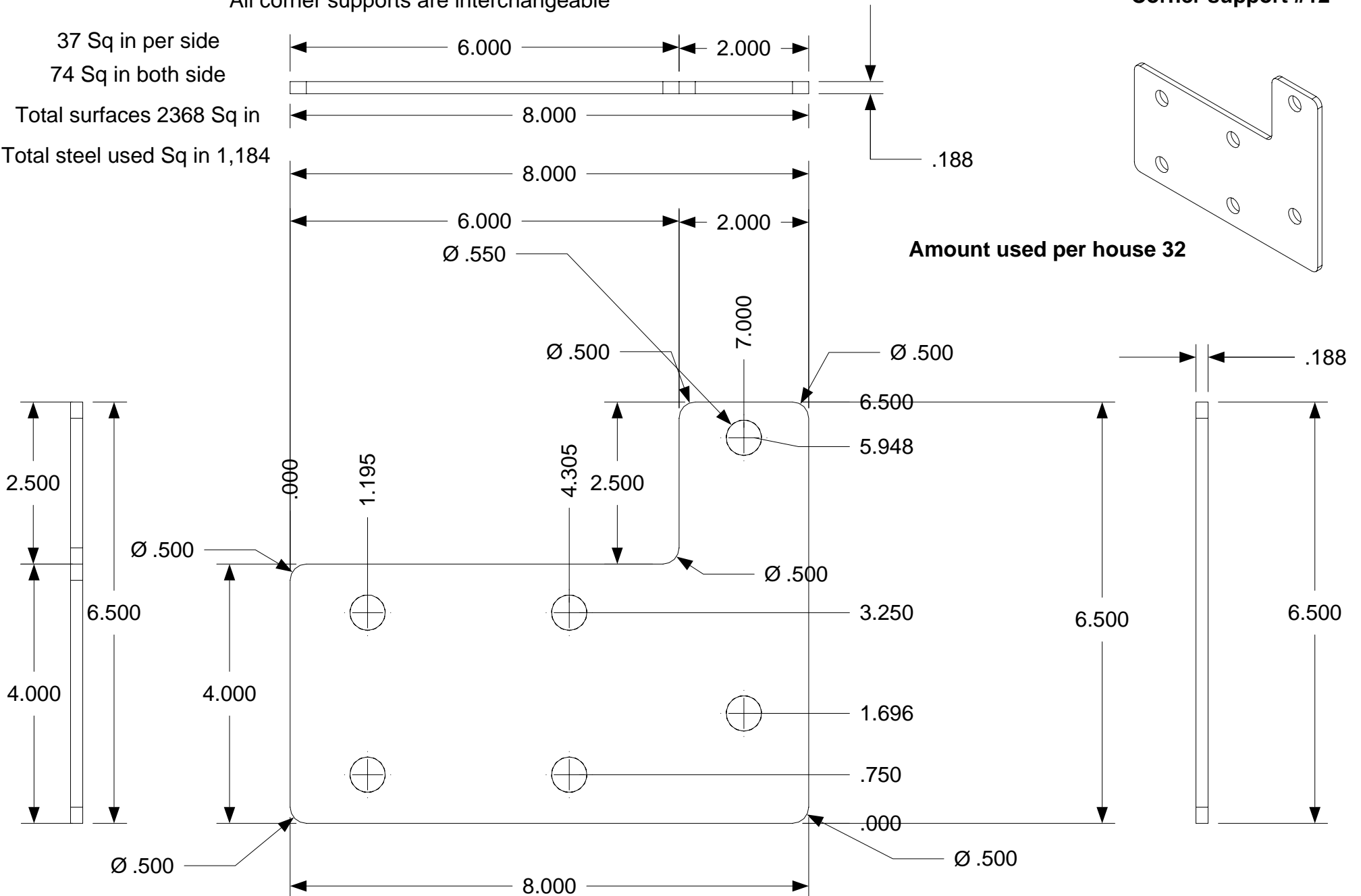
74 Sq in both side

Total surfaces 2368 Sq in

Total steel used Sq in 1,184

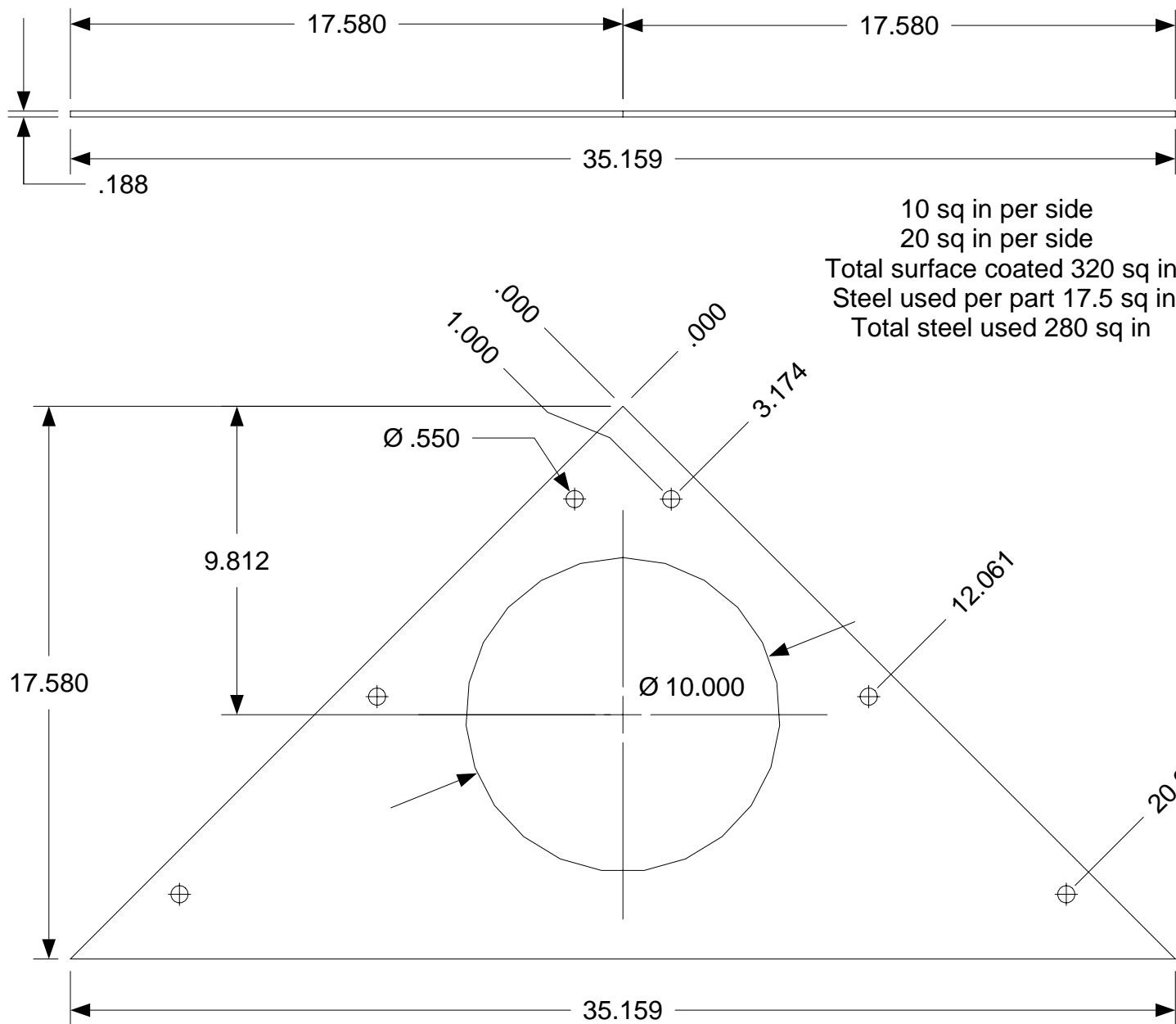


Amount used per house 32



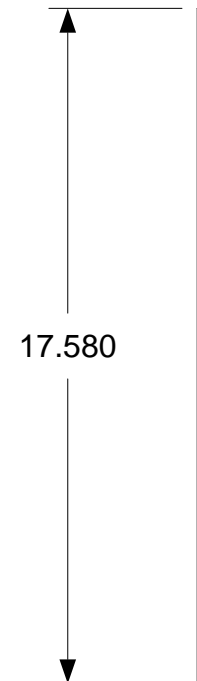
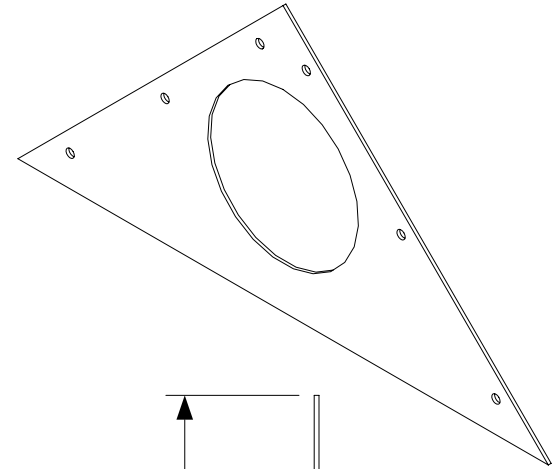
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10 sq in per side
 20 sq in per side
 Total surface coated 320 sq in
 Steel used per part 17.5 sq in
 Total steel used 280 sq in

Rafter support #15



Amount used per house 16#

Steel Manufacturing Section

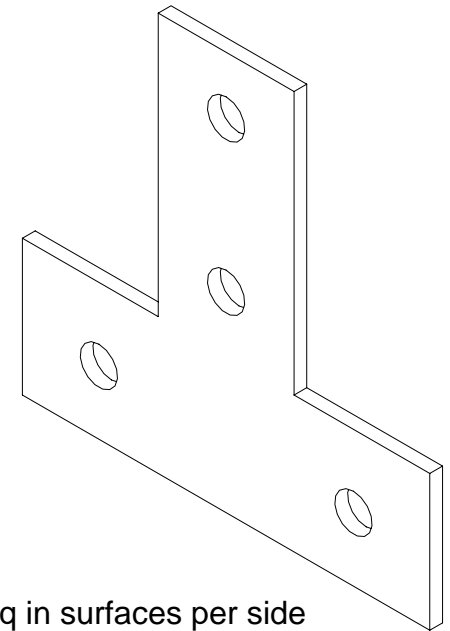
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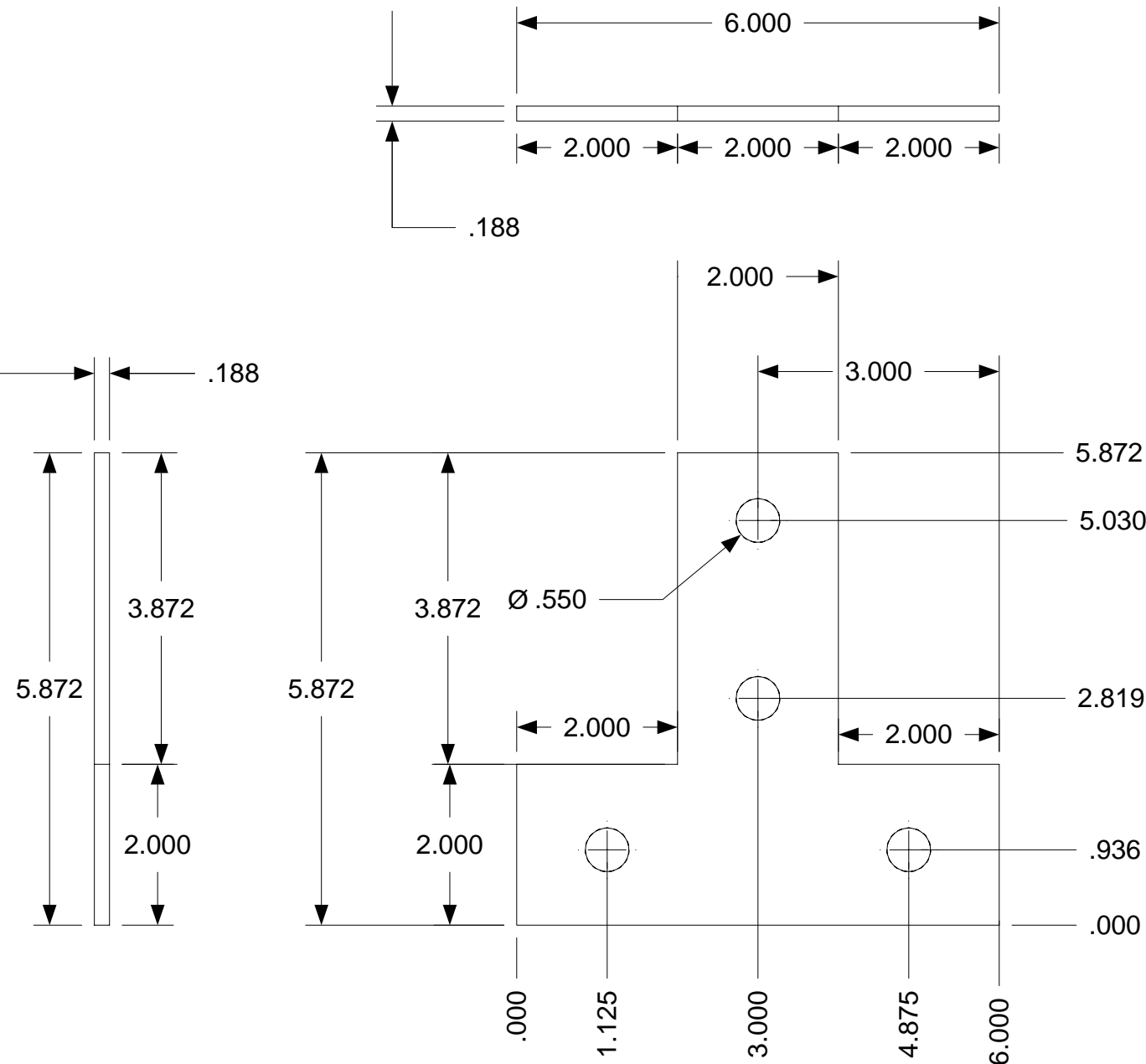
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T support #13



19.744 sq in surfaces per side
 39.488 sq in surfaces per both side
 Total surfaces per house 947.71 sq in
 Total steel used per house 473.856 sq in

Amount used per house 24

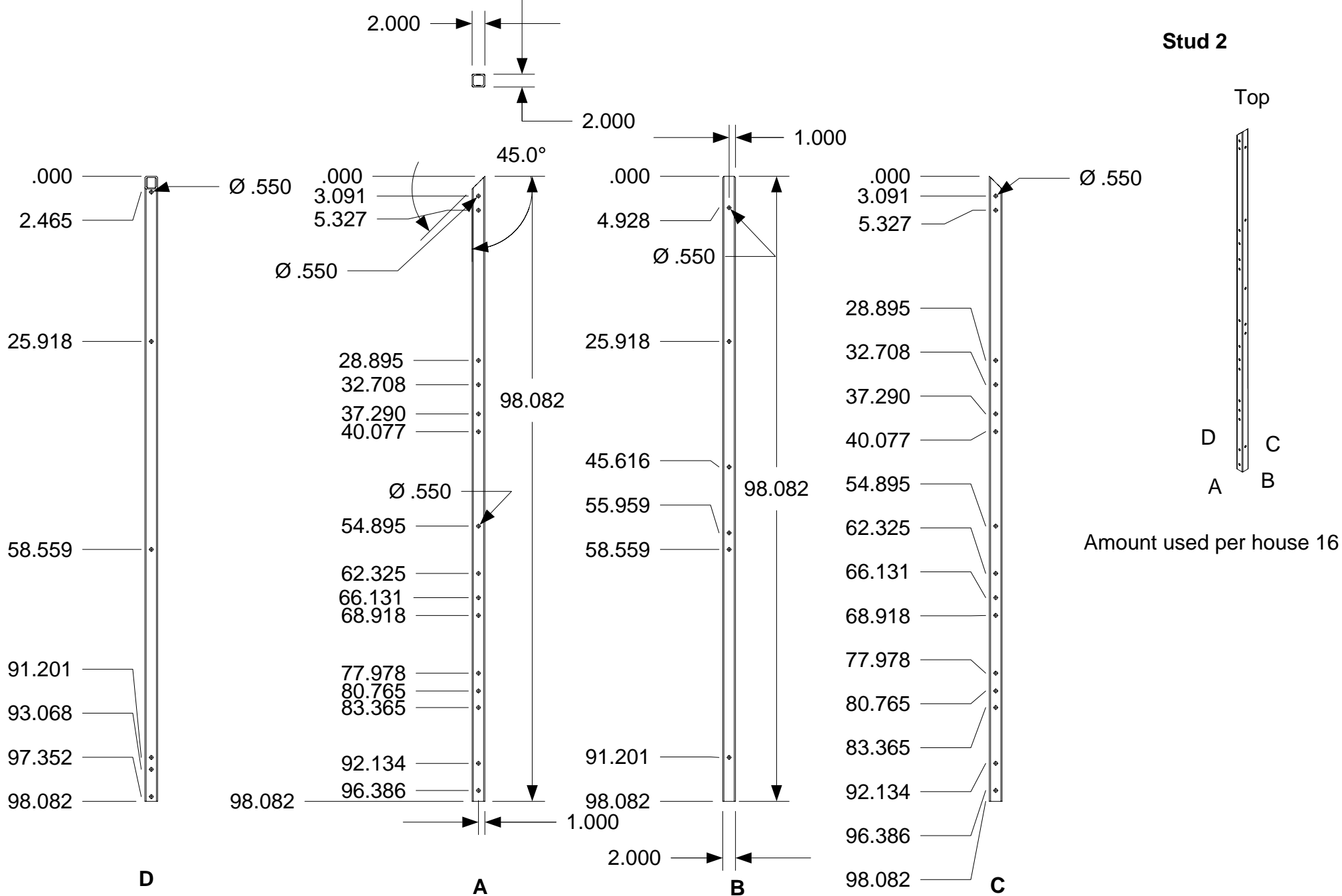


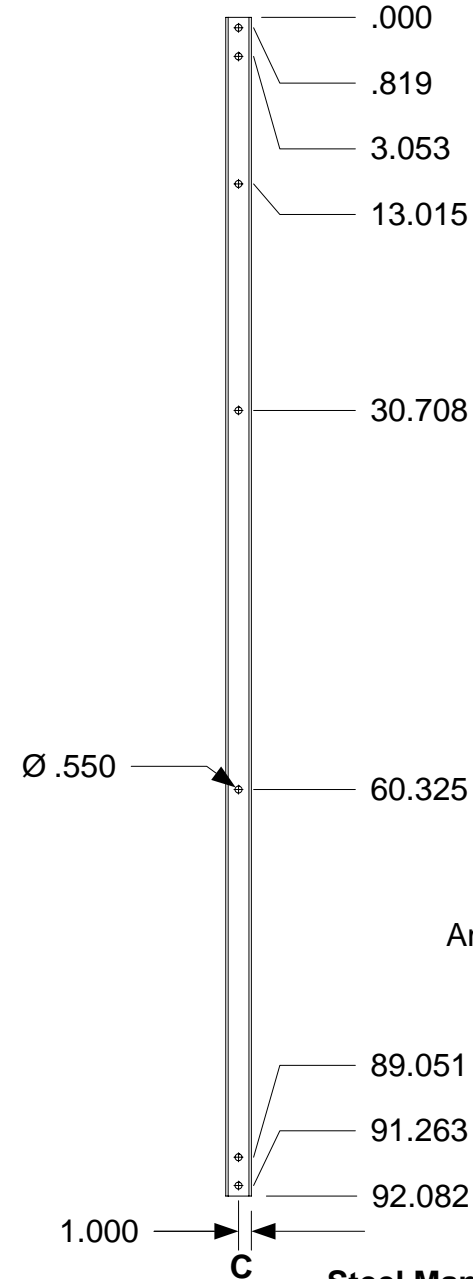
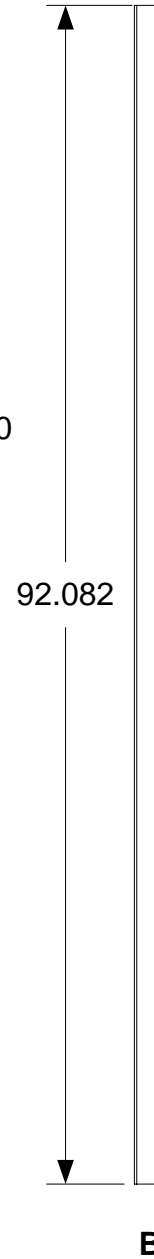
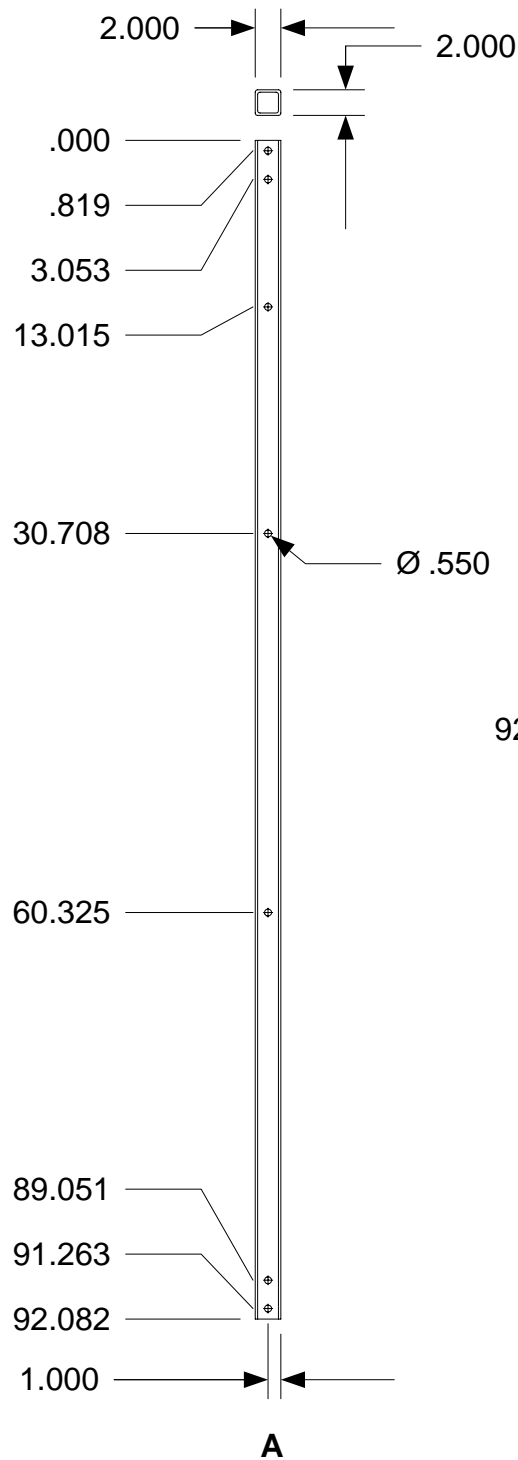
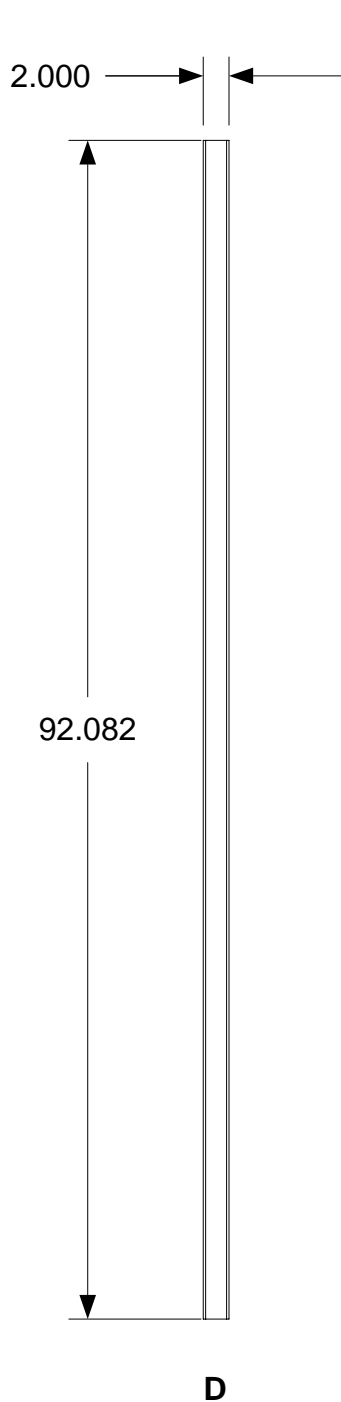


Bottom of rafter

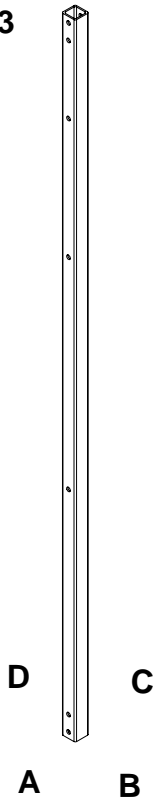


Diagram of a square channel with a central square obstacle. The channel has a total width of 2.000 and a total height of 2.000. The obstacle is a square with a side length of 0.5, centered in the channel. The flow is from left to right, indicated by arrows.





Stud #3

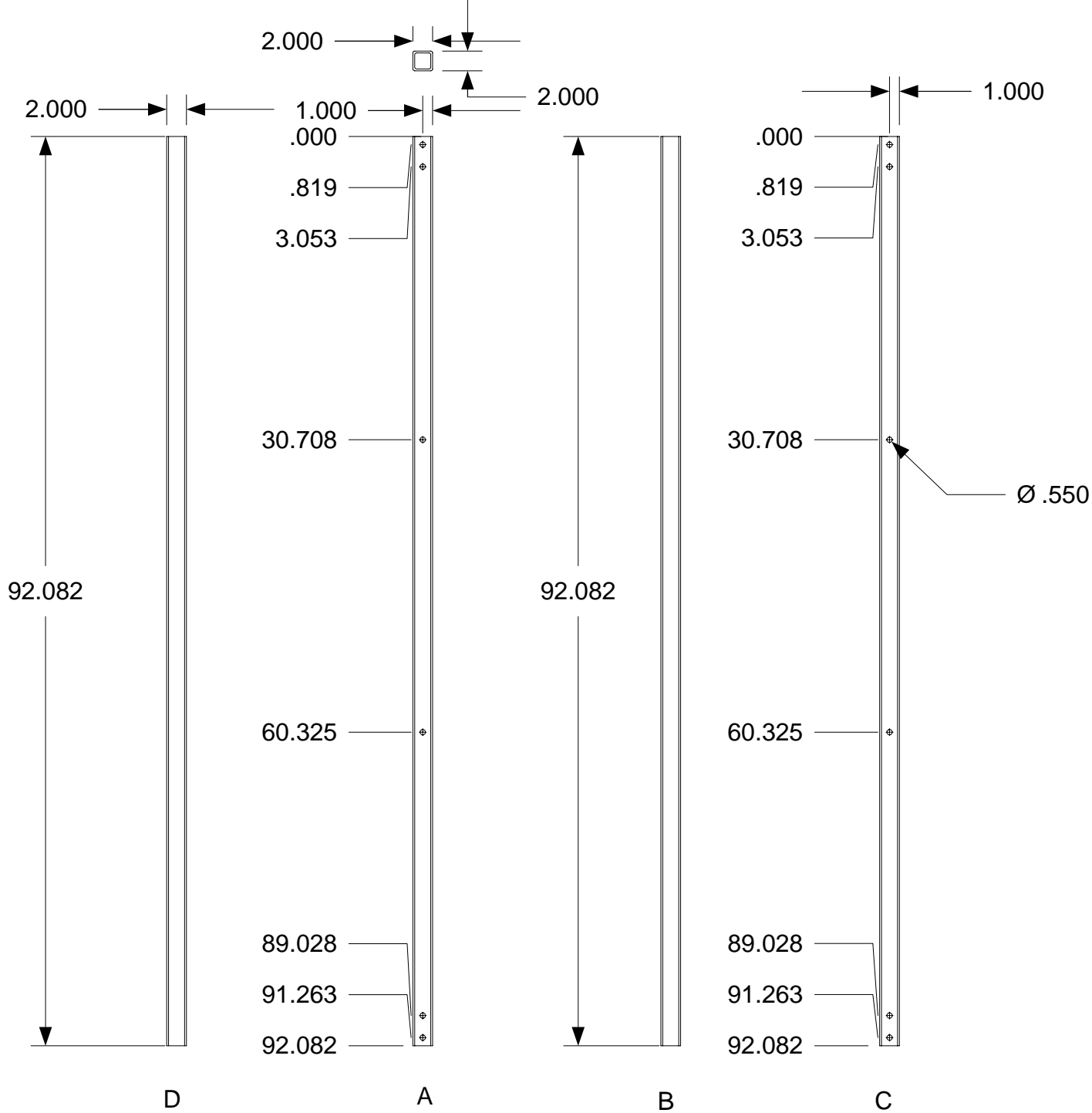


Amount used per house 1

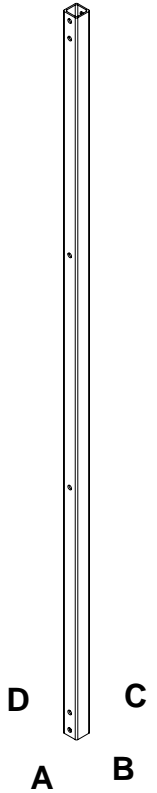
Steel Manufacturing Section

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***Hurricane and Earthquake Resistant
Disaster Relief Housing***

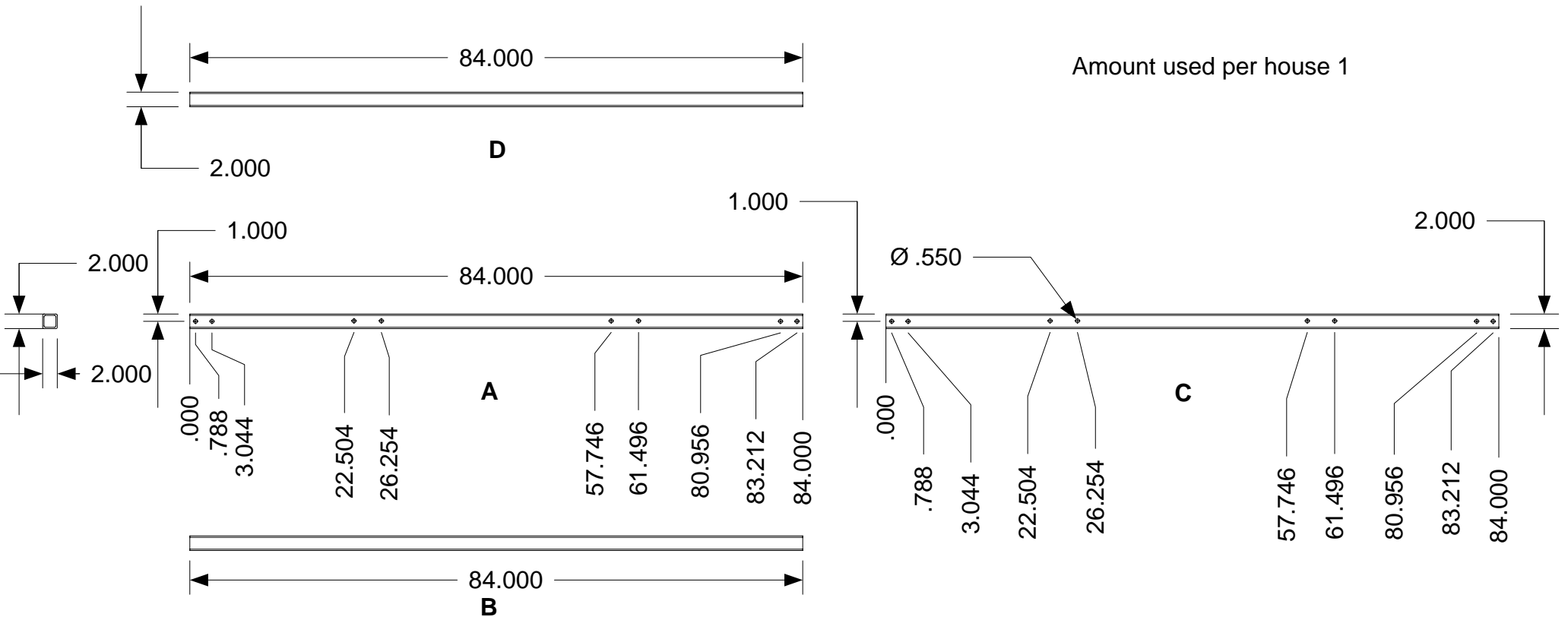
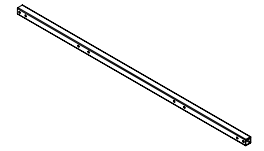


Stud #4



Amount used per house 1

Frame 1 support beam #5



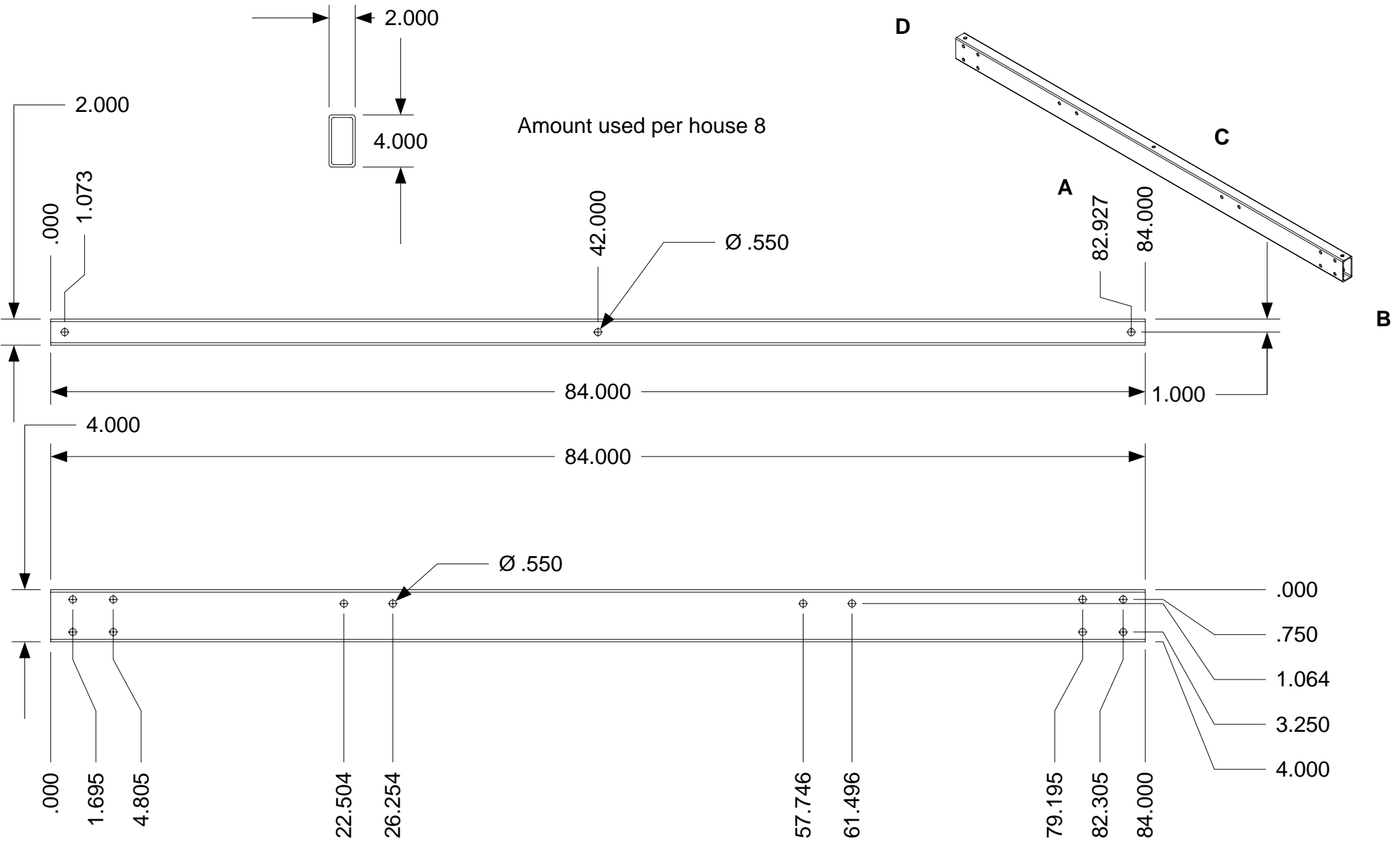
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Floor joist #1



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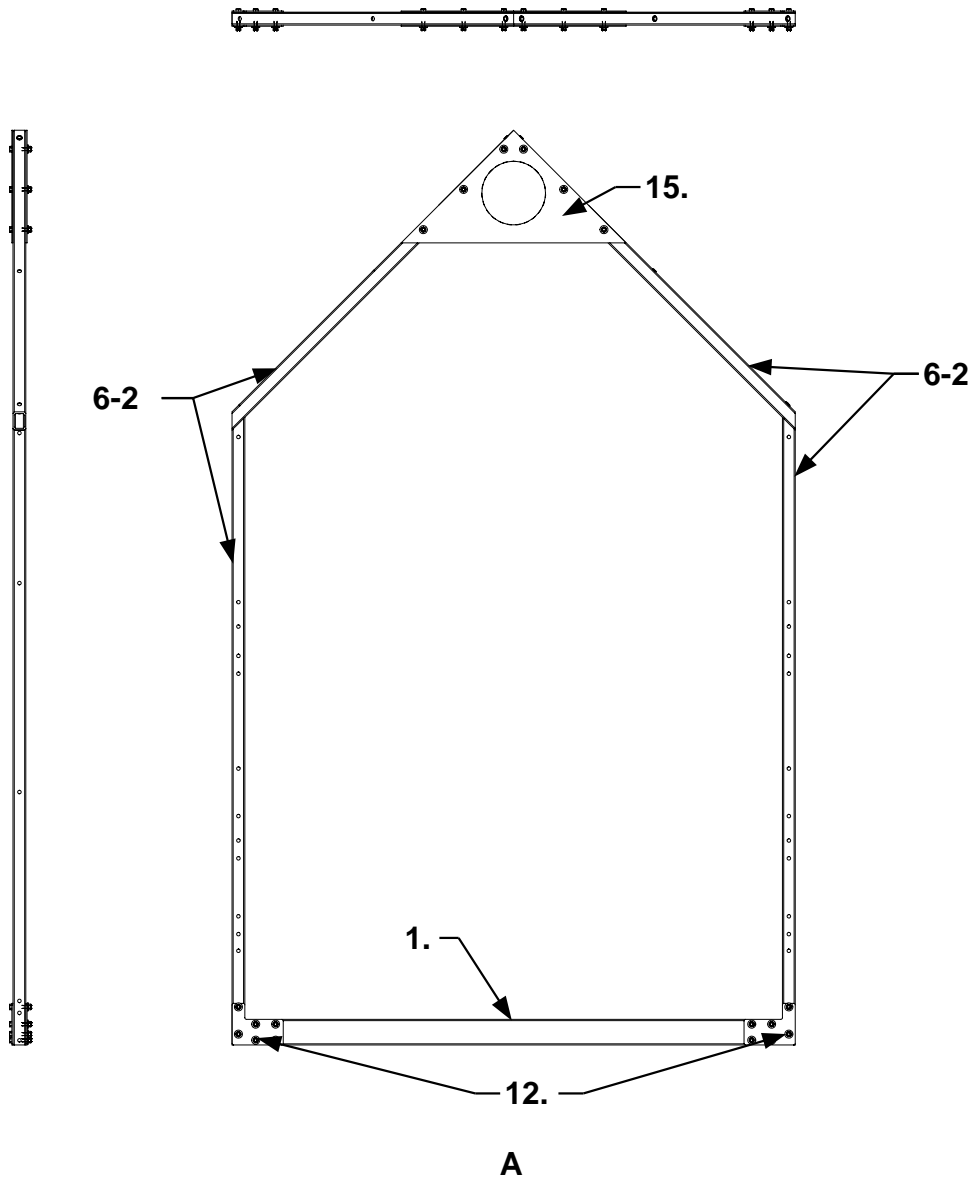
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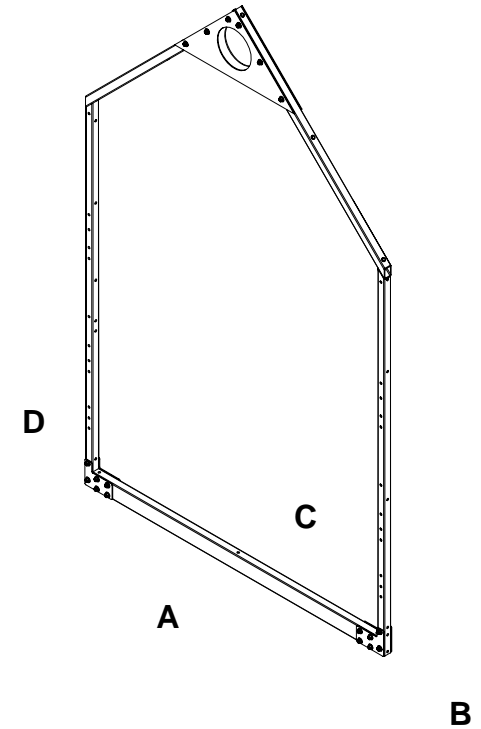
Amount used per house 6

Review drawings 5-7-8-15 for sub component details

Frame 1& Frame 8 use same parts with minor changes to part 1 ref: joist #1



Frame 2 part identification



Assemble the following group of parts:

Rafter support #15 amount 2
Rafter stud assembly #6-2 amount 2
Corner support #12 amount 4
Floor Joist #1 amount 1

Hardware:

Bolt:Hex-0.5x3.0
Nut:Standard-0.5x0.4375
Washer:Plan-0.5x0.1
Amount used on Frame 2 - 18 sets

Steel Manufacturing Section

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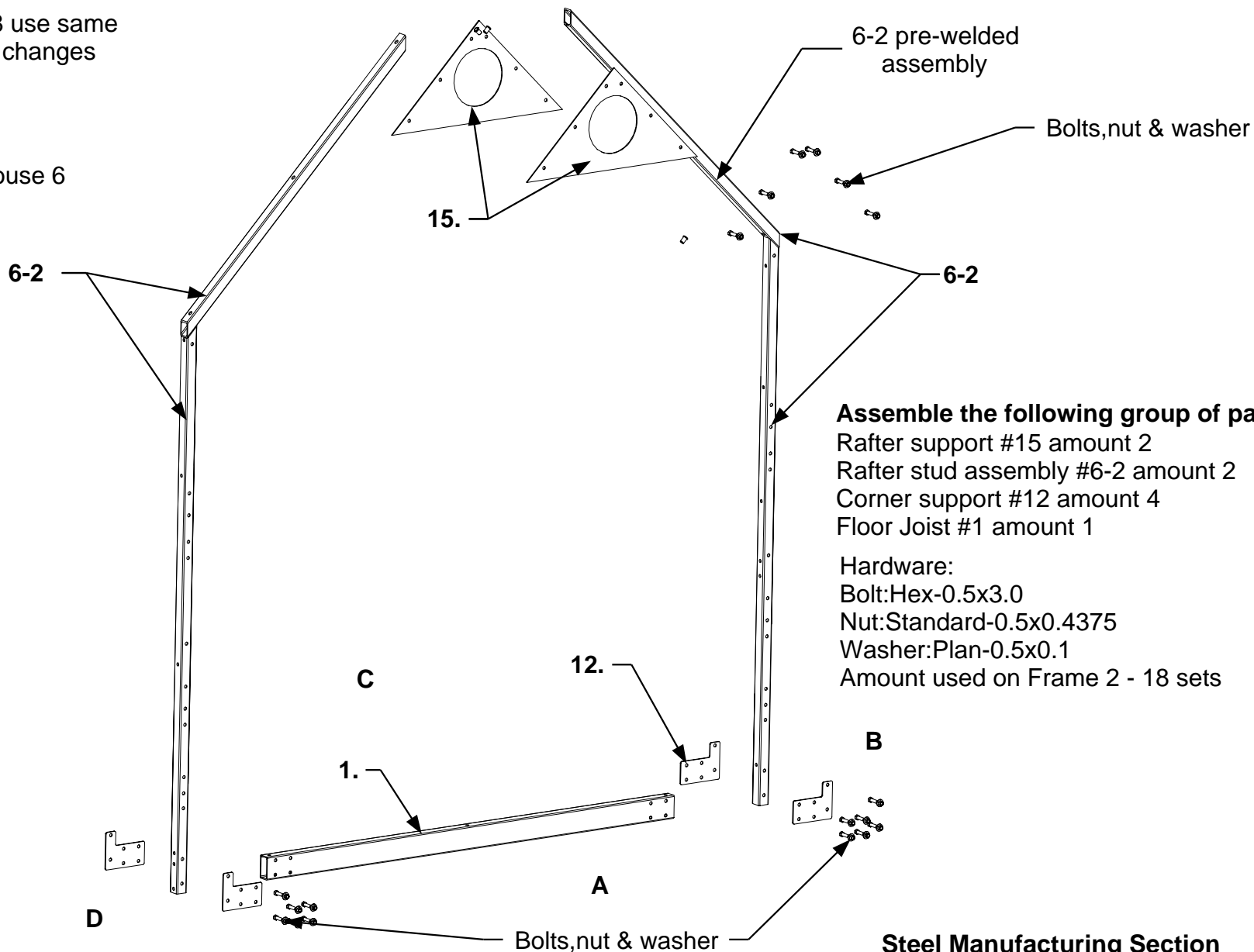
**Hurricane and Earthquake Resistant
Disaster Relief Housing**

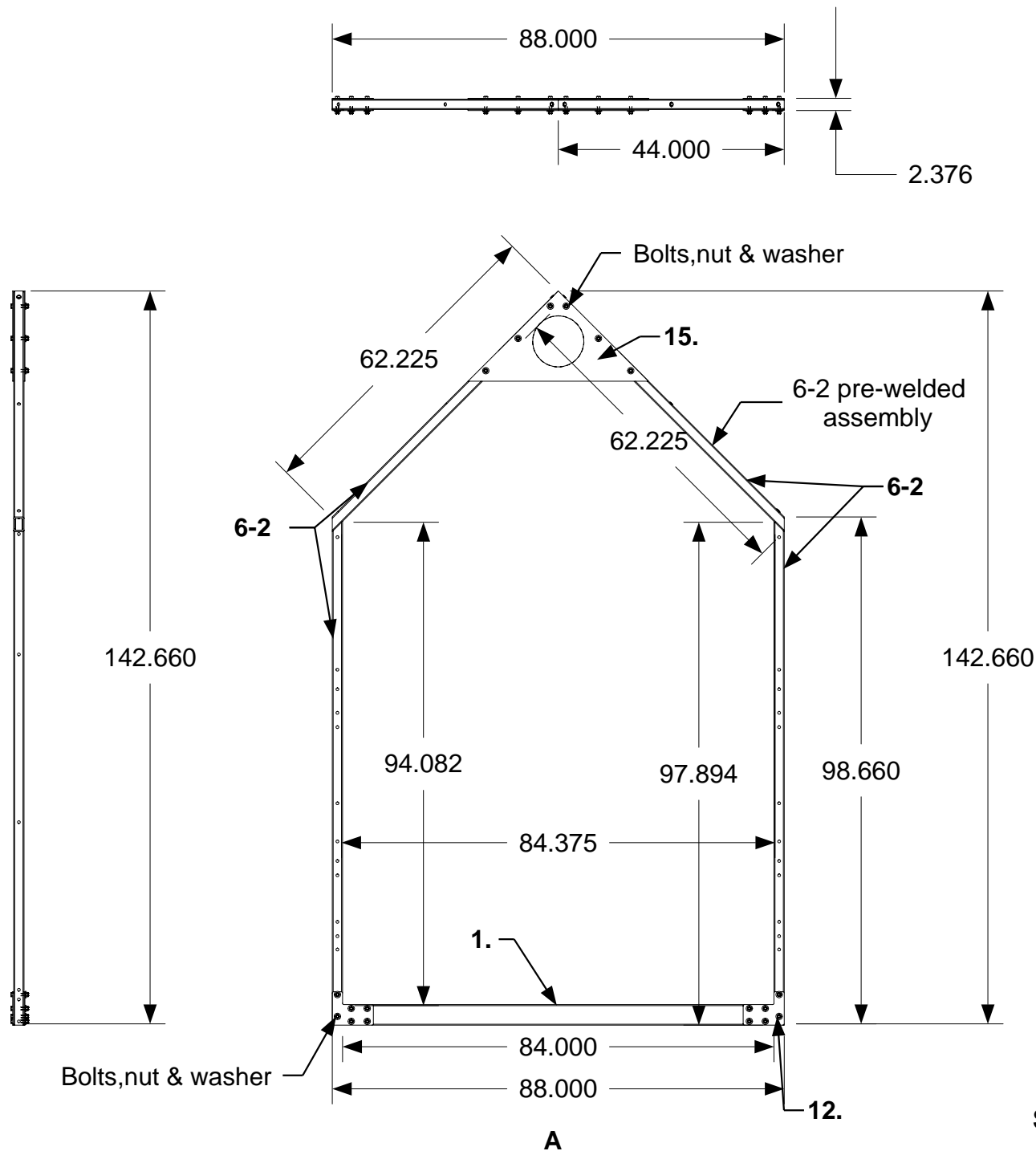
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Review drawings 5-7-8-15 for sub component details

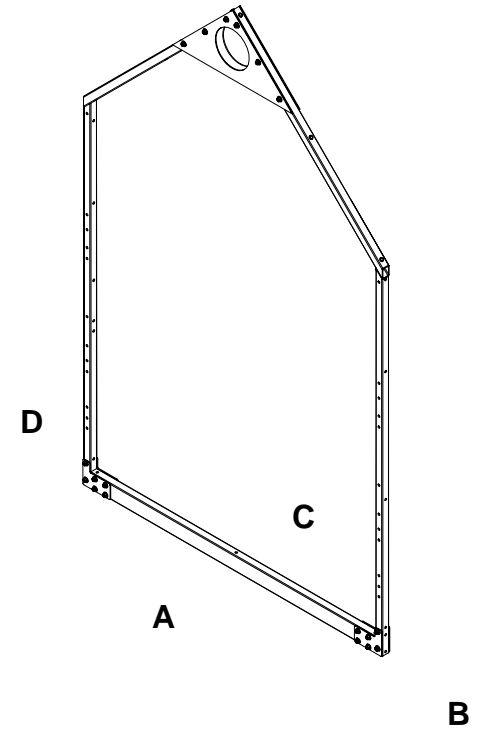
Frame 1& Frame 8 use same parts with minor changes

Frame 2
Amount used per house 6





Frame 2 finished part measurements



Amount used per house 6

Frame 1 & Frame 8 use same parts with minor changes

Amount used per house 1

Review drawings 5-7-8-15 for sub component details

Frame 8 part identification

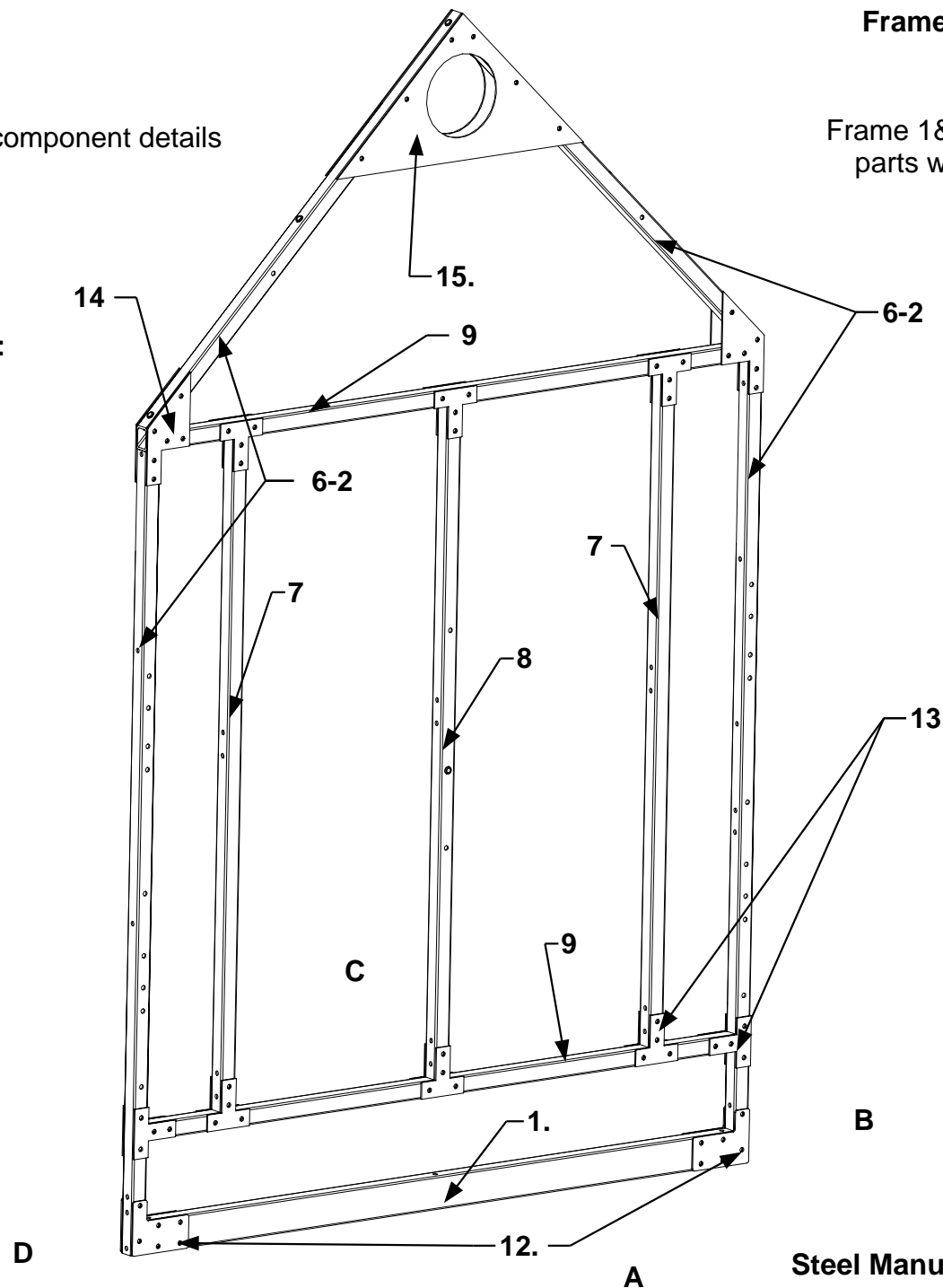
Frame 1& Frame 8 use same parts with minor changes

Assemble the following group of parts:

Rafter support #15 amount 2
Rafter stud assembly #6-2 amount 2
Corner support #12 amount 4
Floor Joist #1 amount 1
Stud #3 amount 1
Stud #4 amount 1

Hardware:

Bolt:Hex-0.5x3.0
Nut:Standard-0.5x0.4375
Washer:Plan-0.5x0.1
Amount used on Frame 8 - 44 sets



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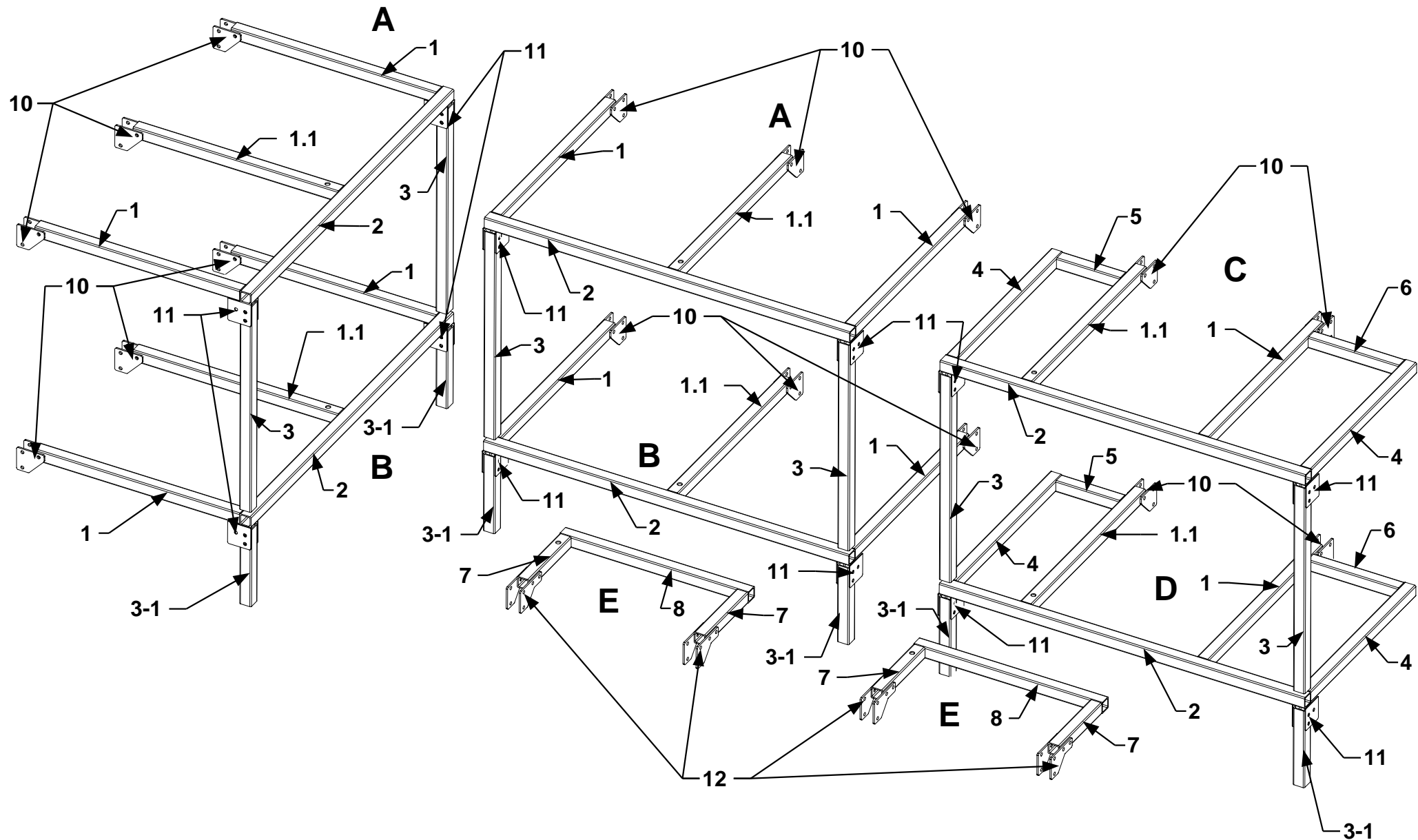
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Fold up Beds & Tables Part Identification 1-12

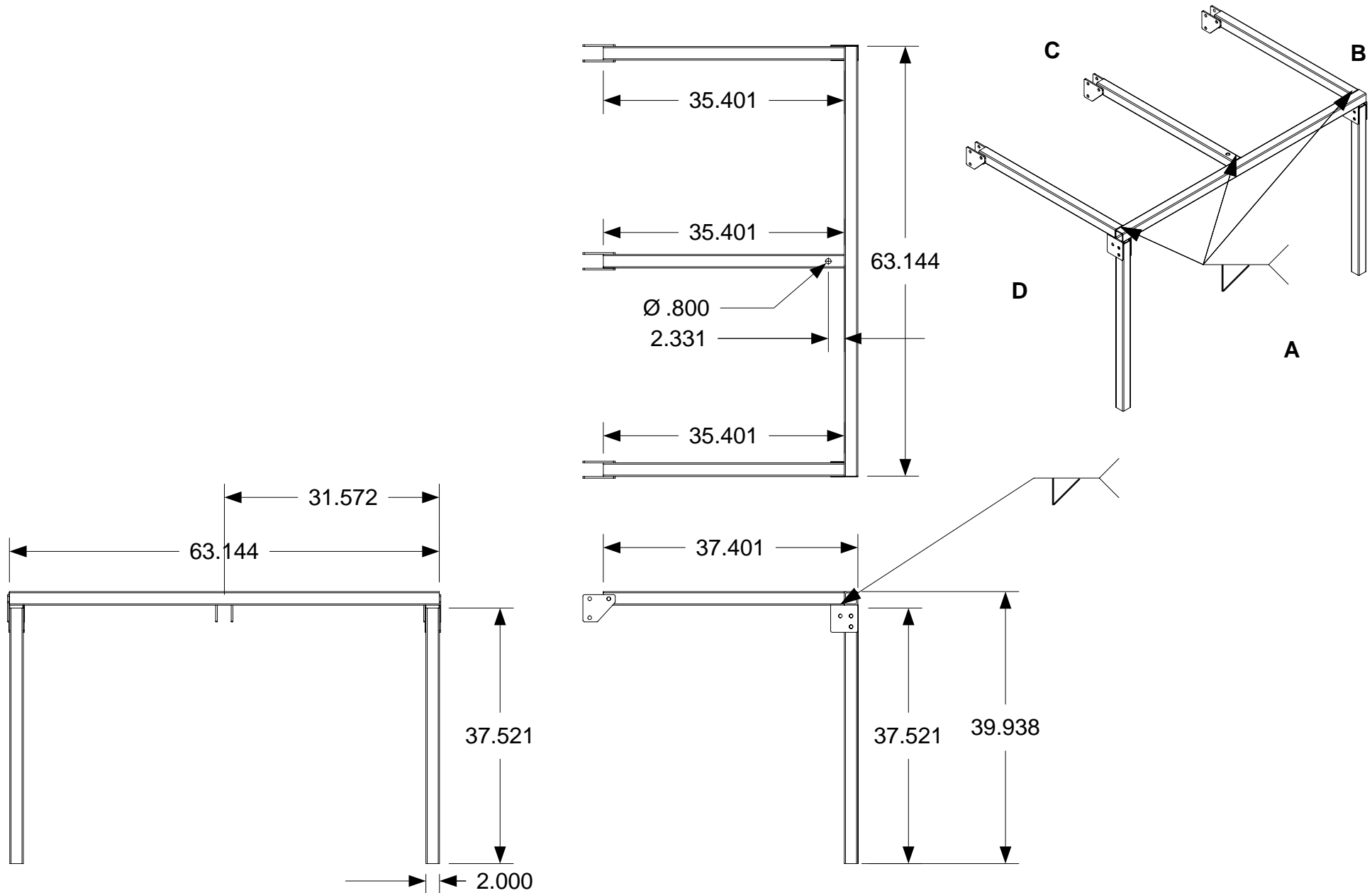


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Fold up Beds A



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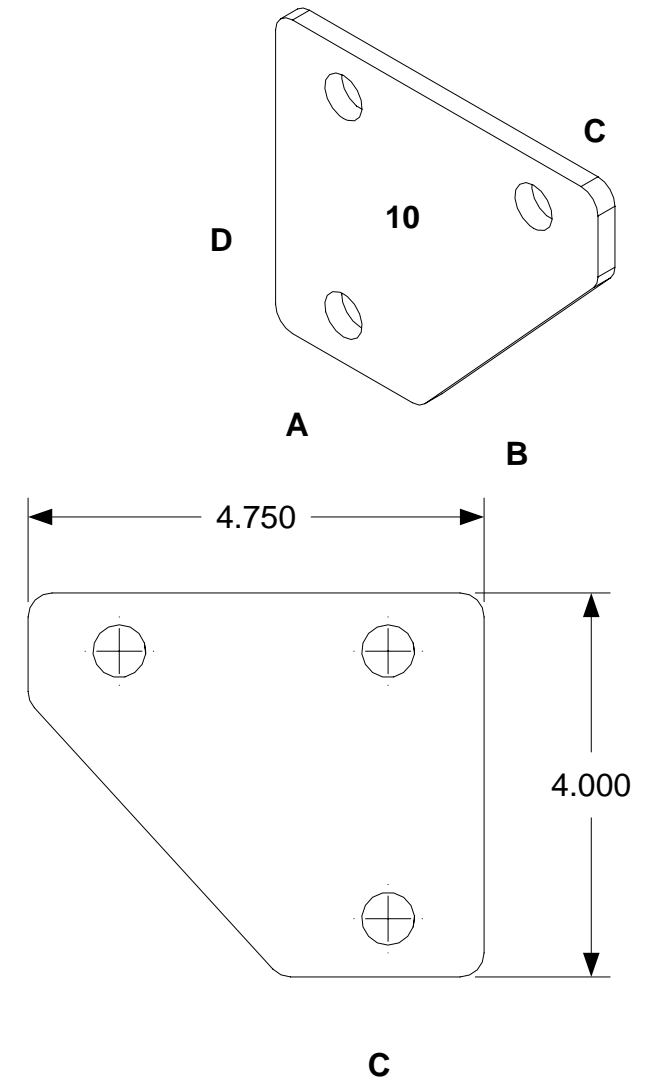
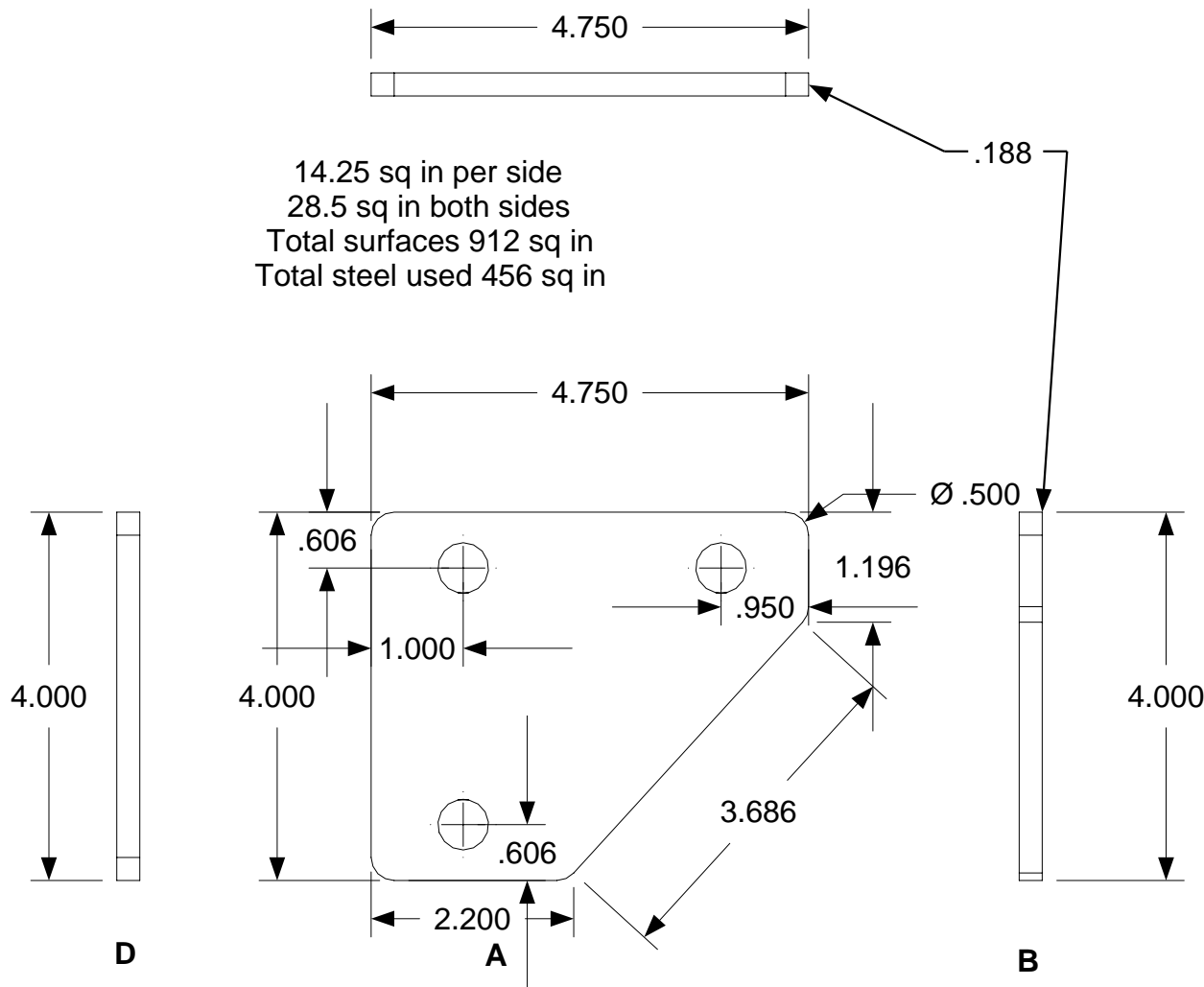
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**Hurricane and Earthquake Resistant
 Disaster Relief Housing**

Fold up Beds Part 10

Part 10 amount used per house 32

Top



Steel Manufacturing Section

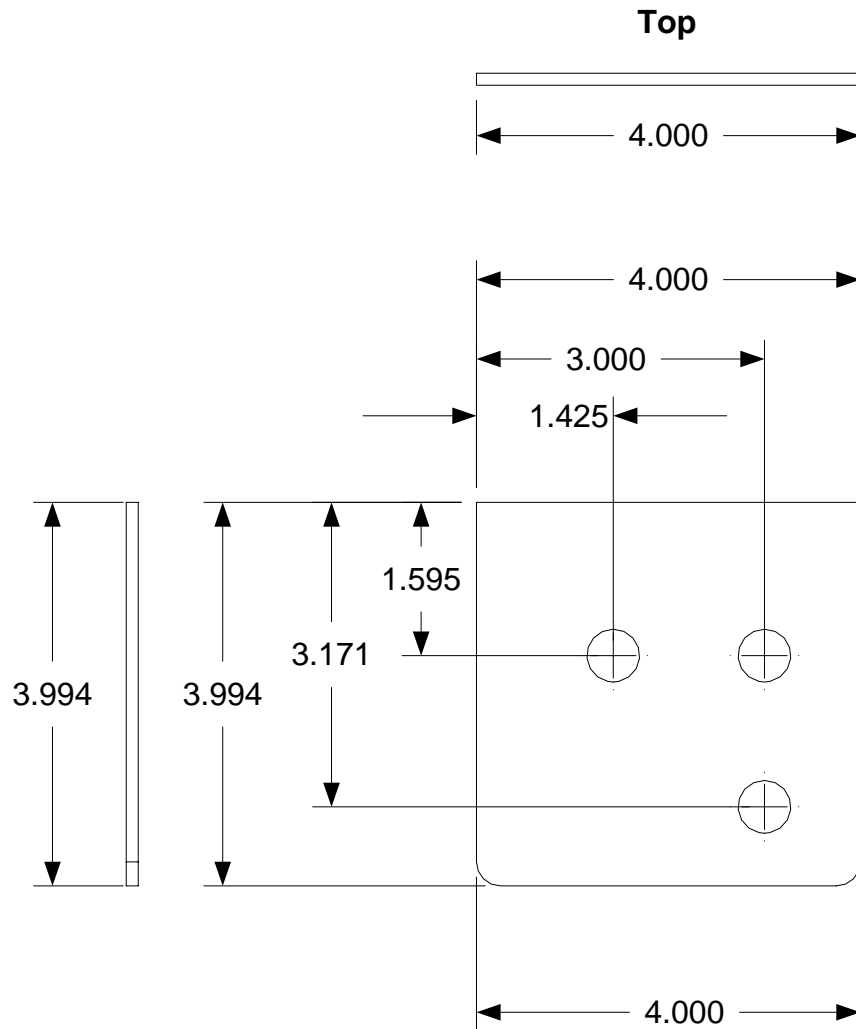
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Part 11 amount used per house 24

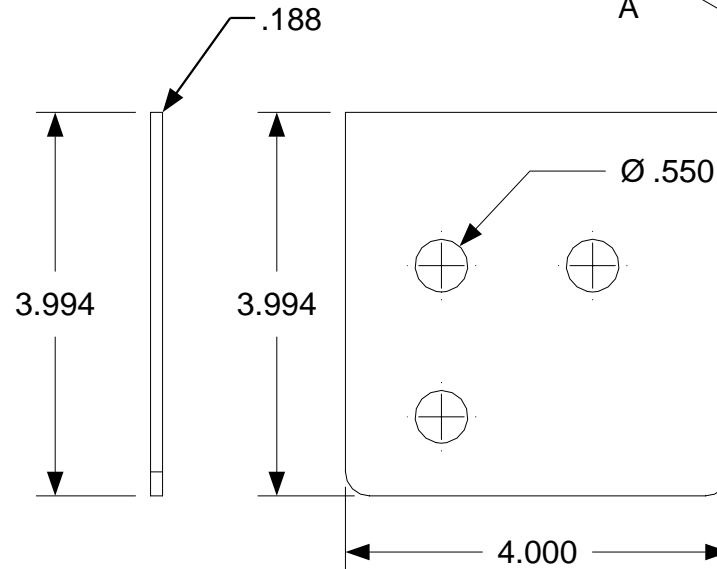
Fold up Beds Part 11



D

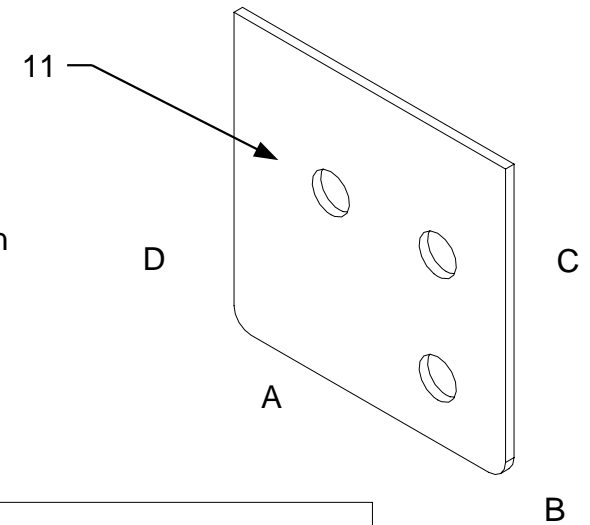
A

16 sq in per side
32 sq in both sides
Total surfaces 768 sq in
Total steel used 384 sq in



B

C



Steel Manufacturing Section

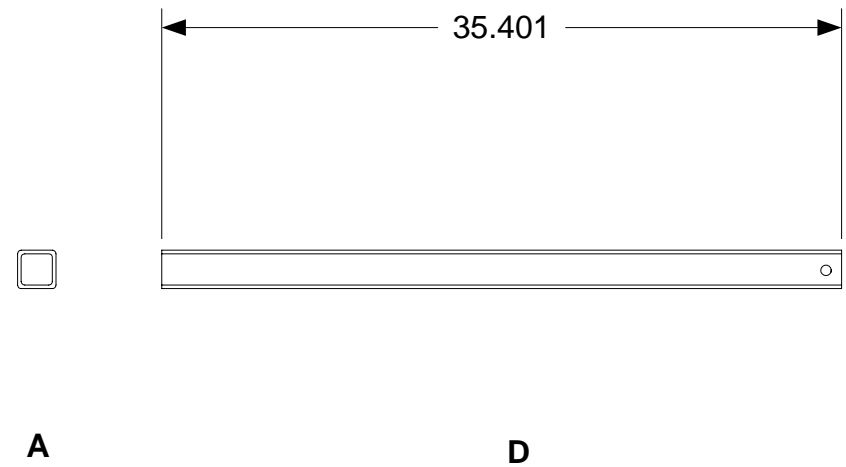
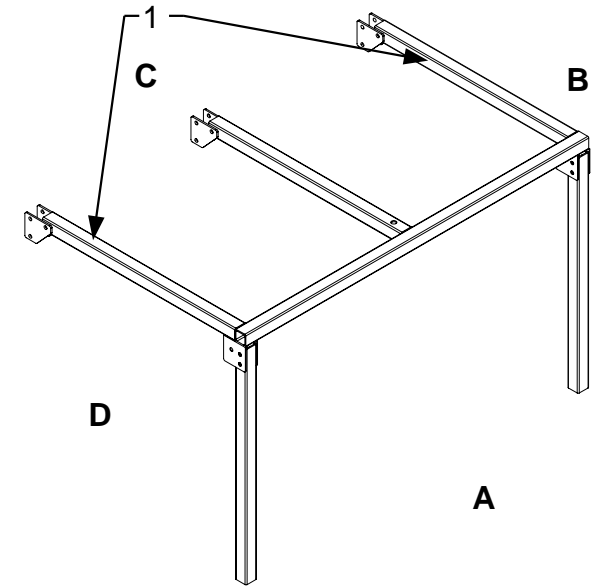
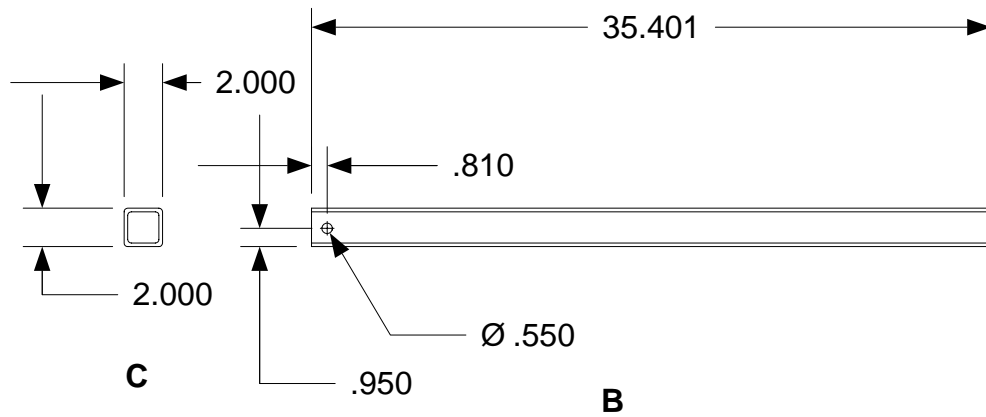
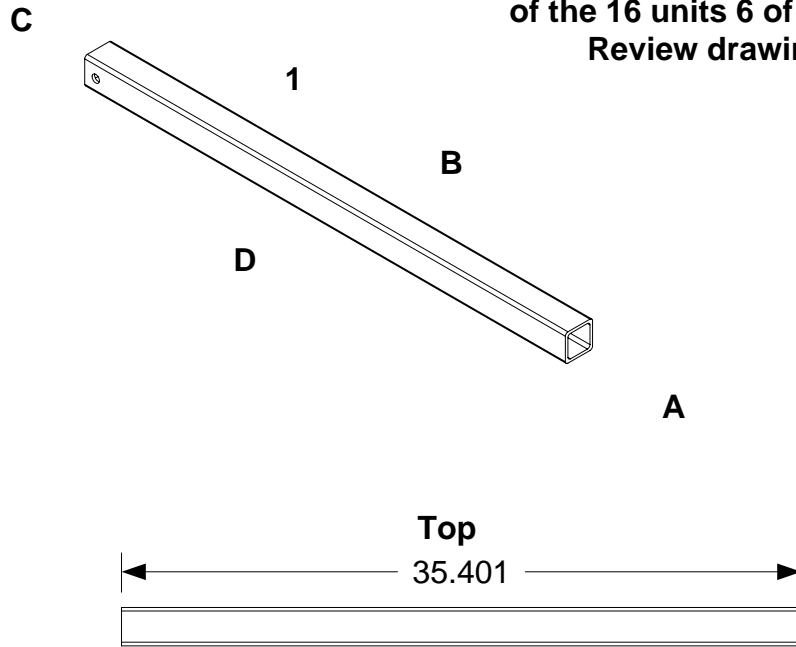
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Fold up Beds Part 1

Part 1 amount used per house 16
of the 16 units 6 of them are modified,
Review drawing 25 part 1.1

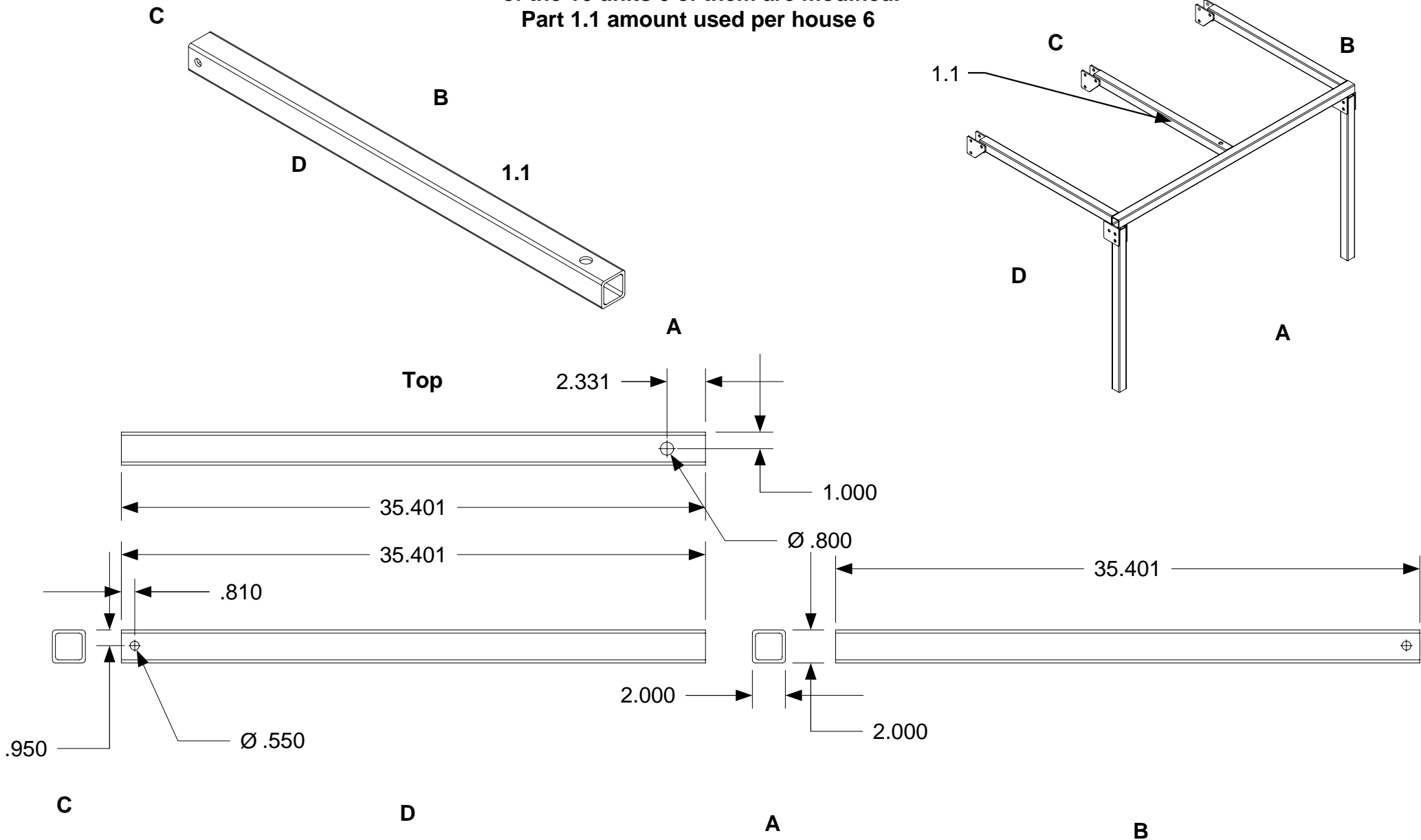


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Part 1 amount used per house 16
of the 16 units 6 of them are modified.
Part 1.1 amount used per house 6

Fold up Beds A Part 1.1



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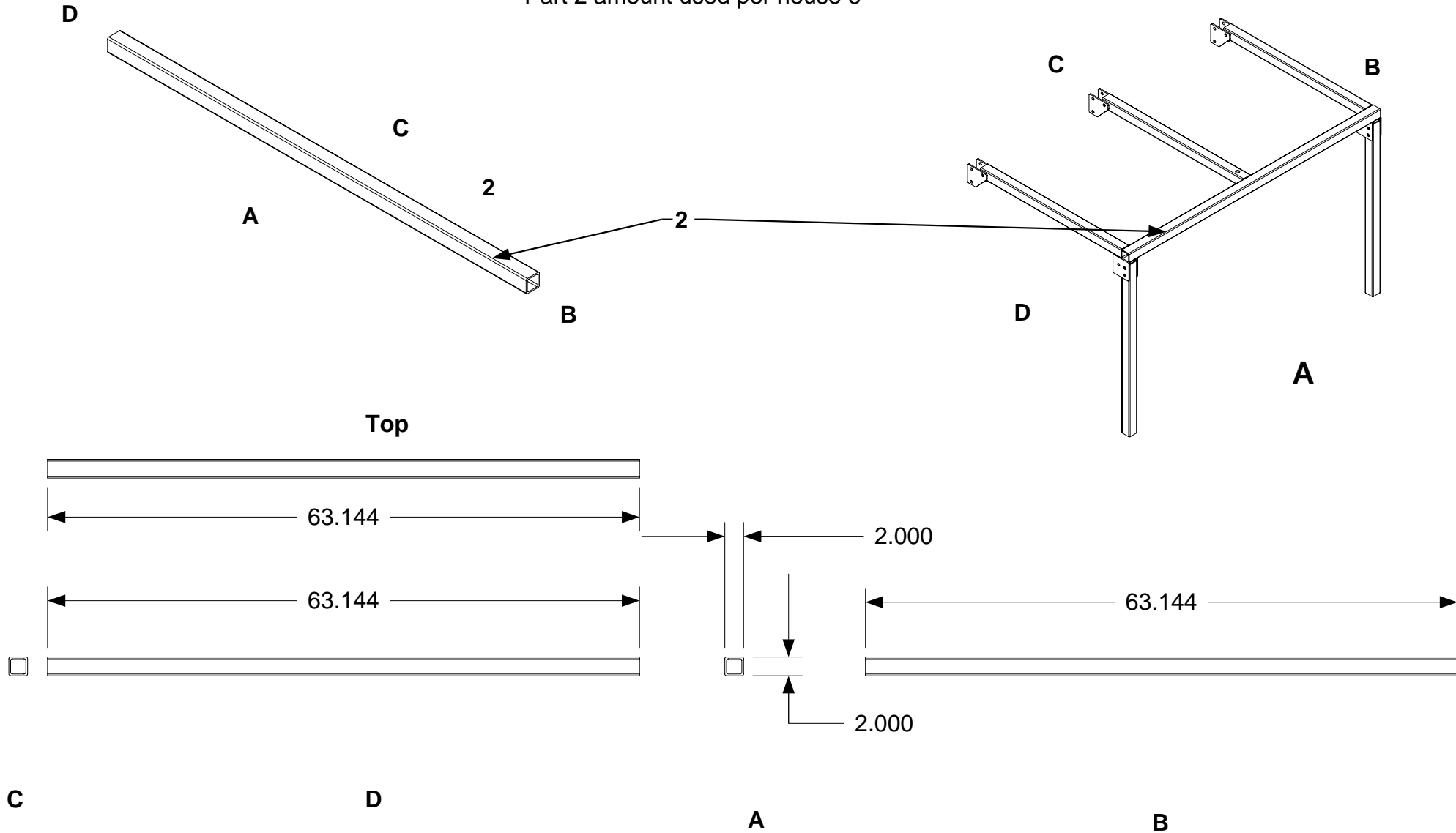
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Fold up Beds Part 2

Part 2 amount used per house 6



Steel Manufacturing Section

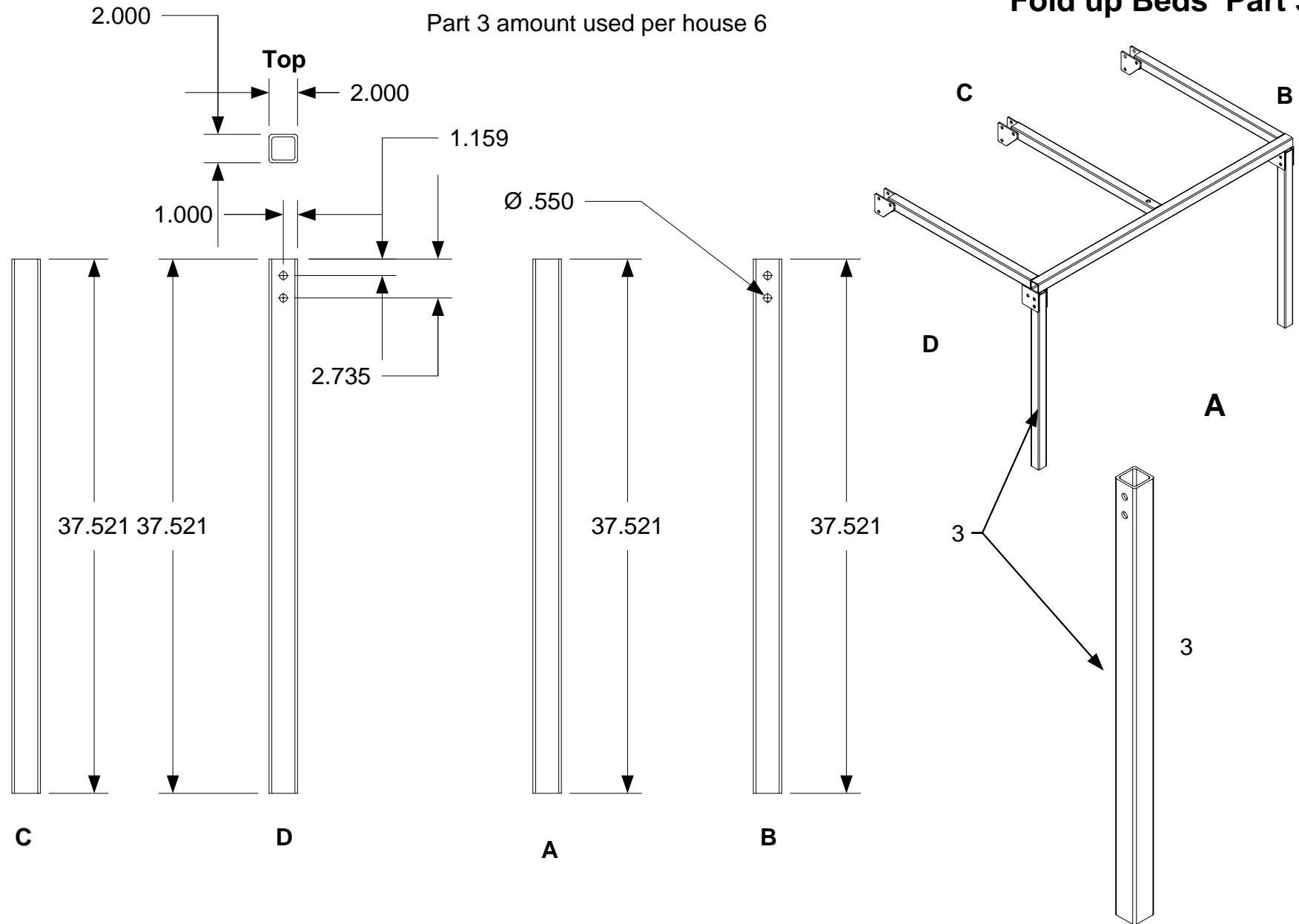
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Fold up Beds Part 3



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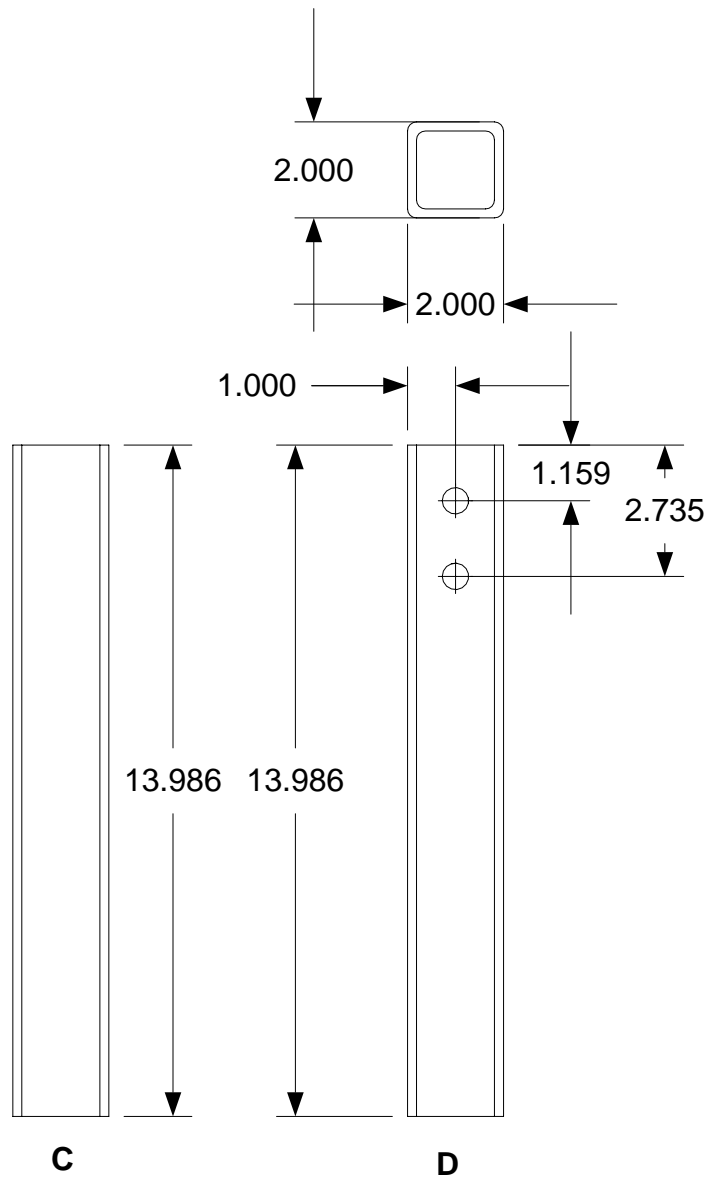
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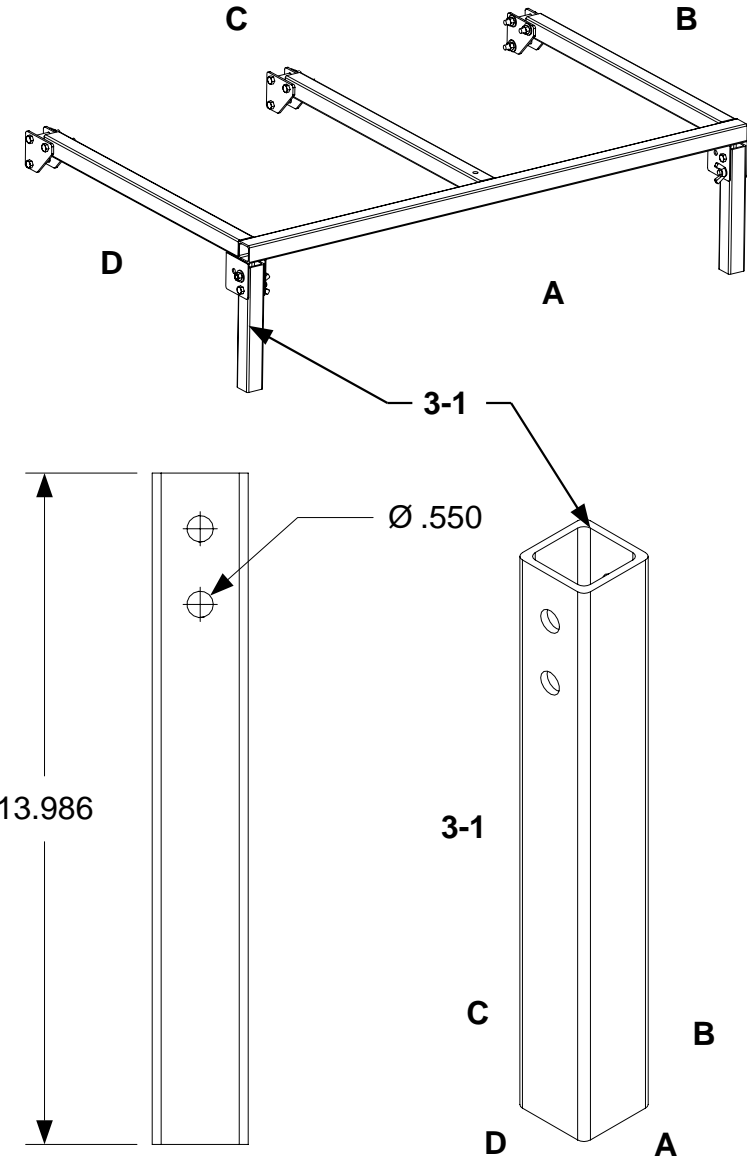
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Part 3-1 amount used per house 6



Fold up Beds B Part 3-1



Steel Manufacturing Section

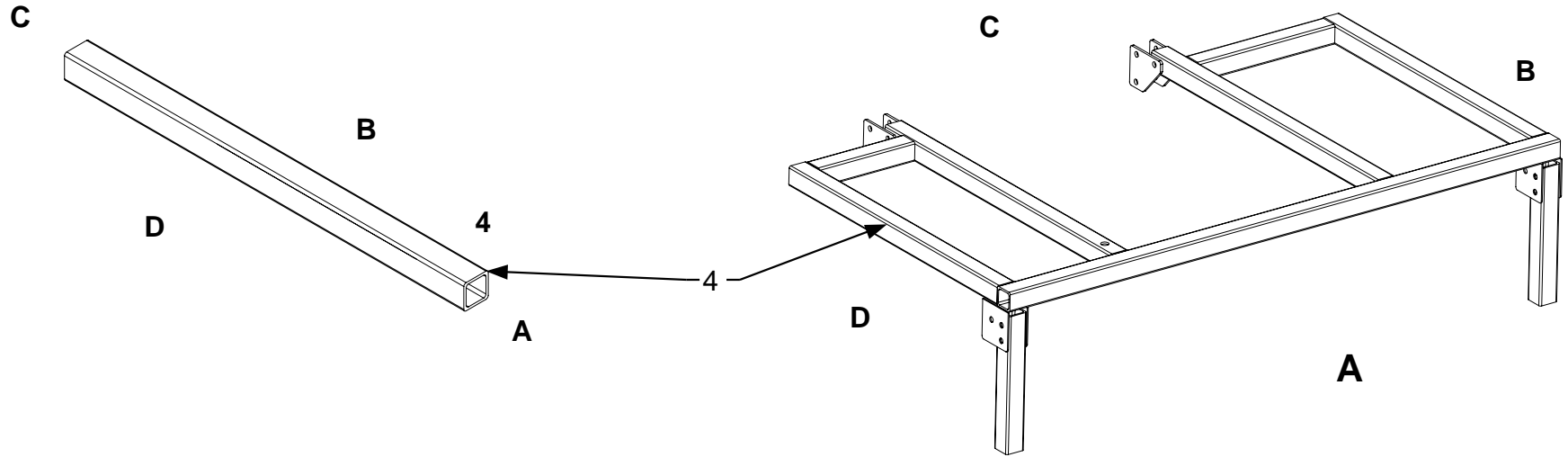
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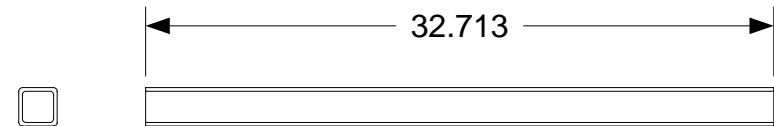
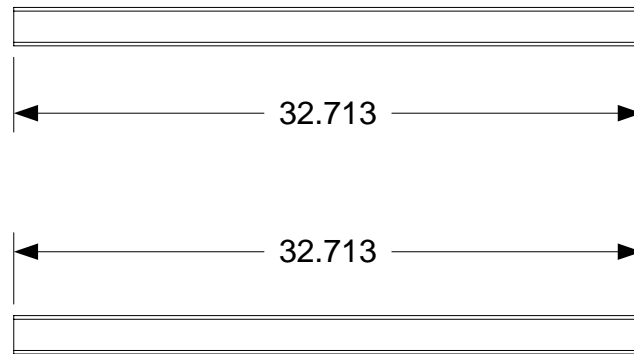
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Part 4 amount used per house 4

Fold up Beds C-D Part 4



Top



C

D

A

B

Steel Manufacturing Section
Pingel Design Group Inc

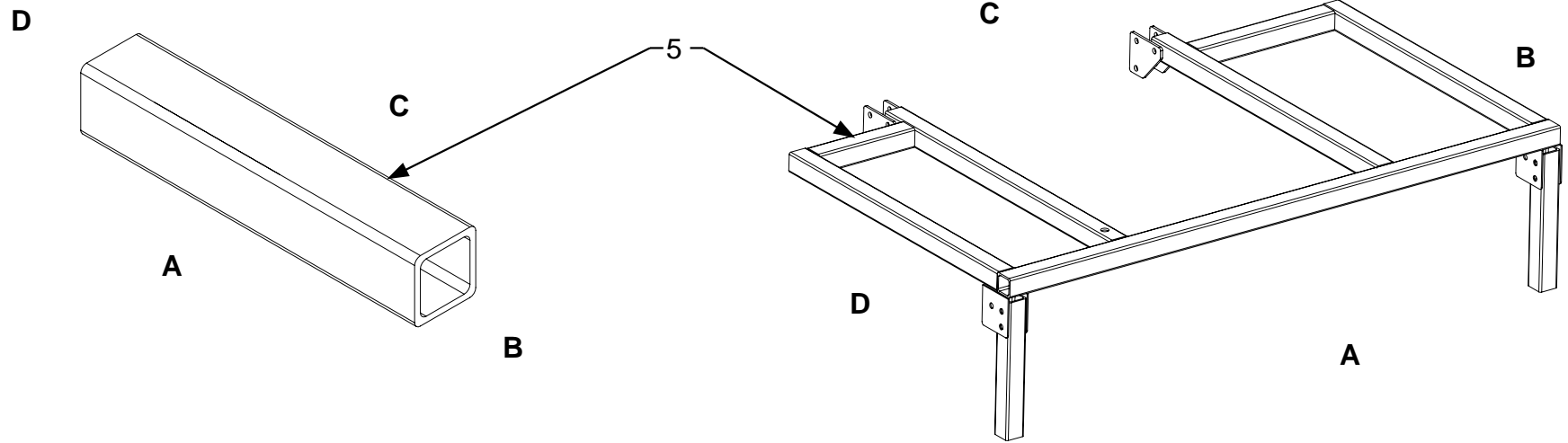
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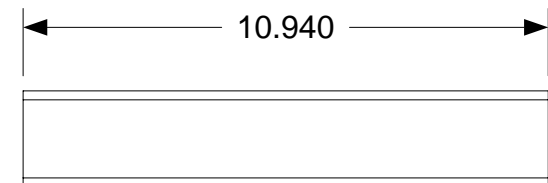
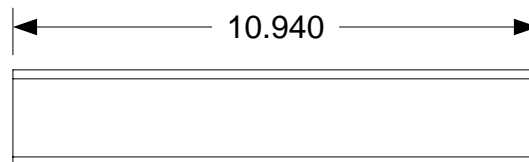
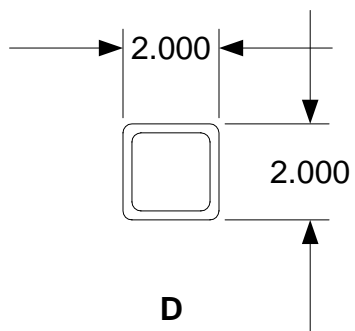
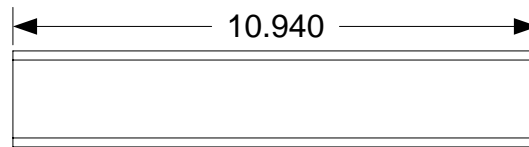
**Hurricane and Earthquake Resistant
Disaster Relief Housing**

Part 5 amount used per house 2

Fold up Beds C-D Part 5



Top



D

A

B

C

Steel Manufacturing Section

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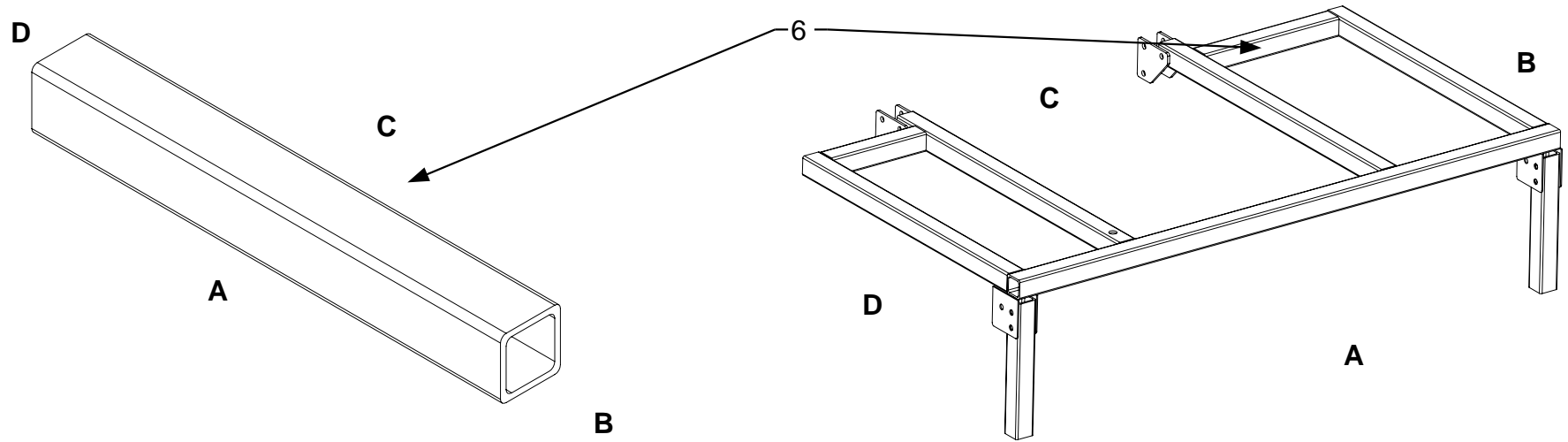
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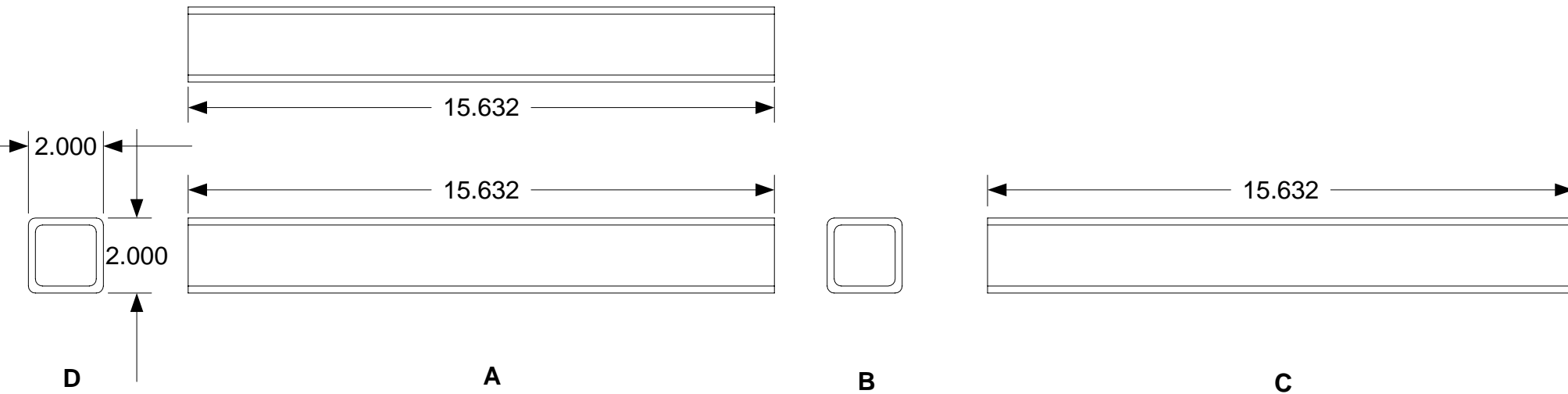
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Part 6 amount used per house 2

Fold up Beds C-D Part 6



Top



Steel Manufacturing Section

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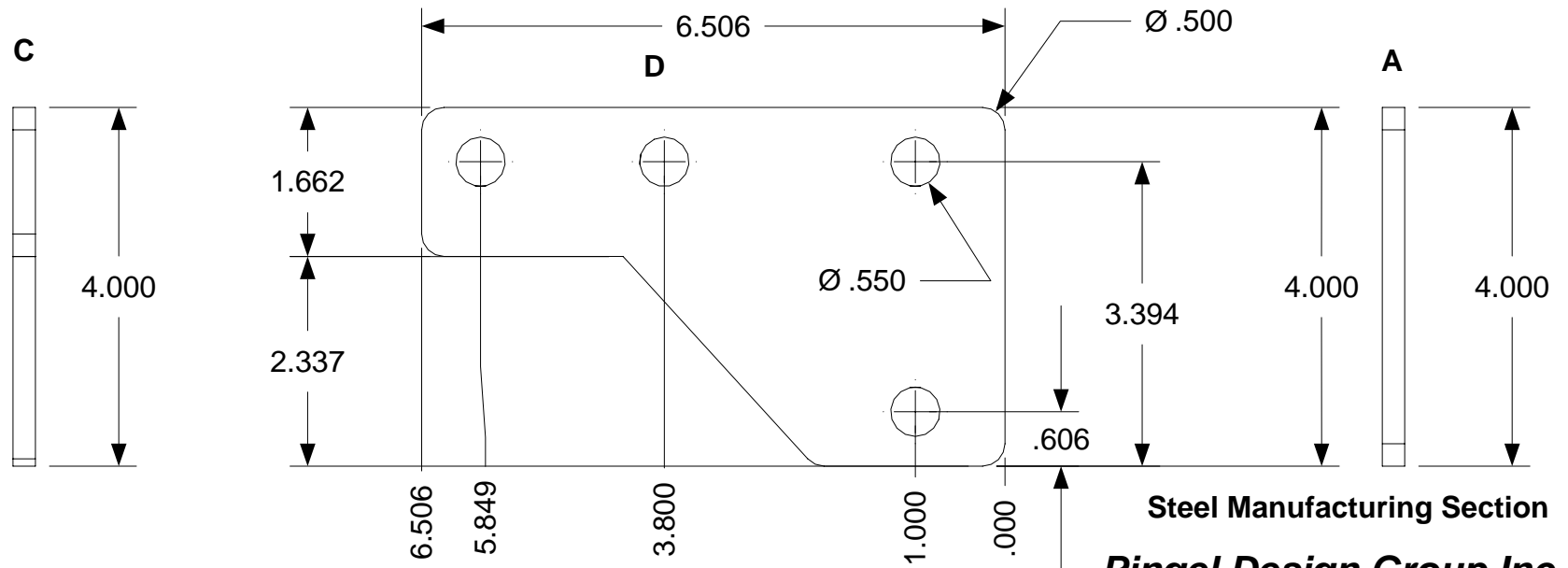
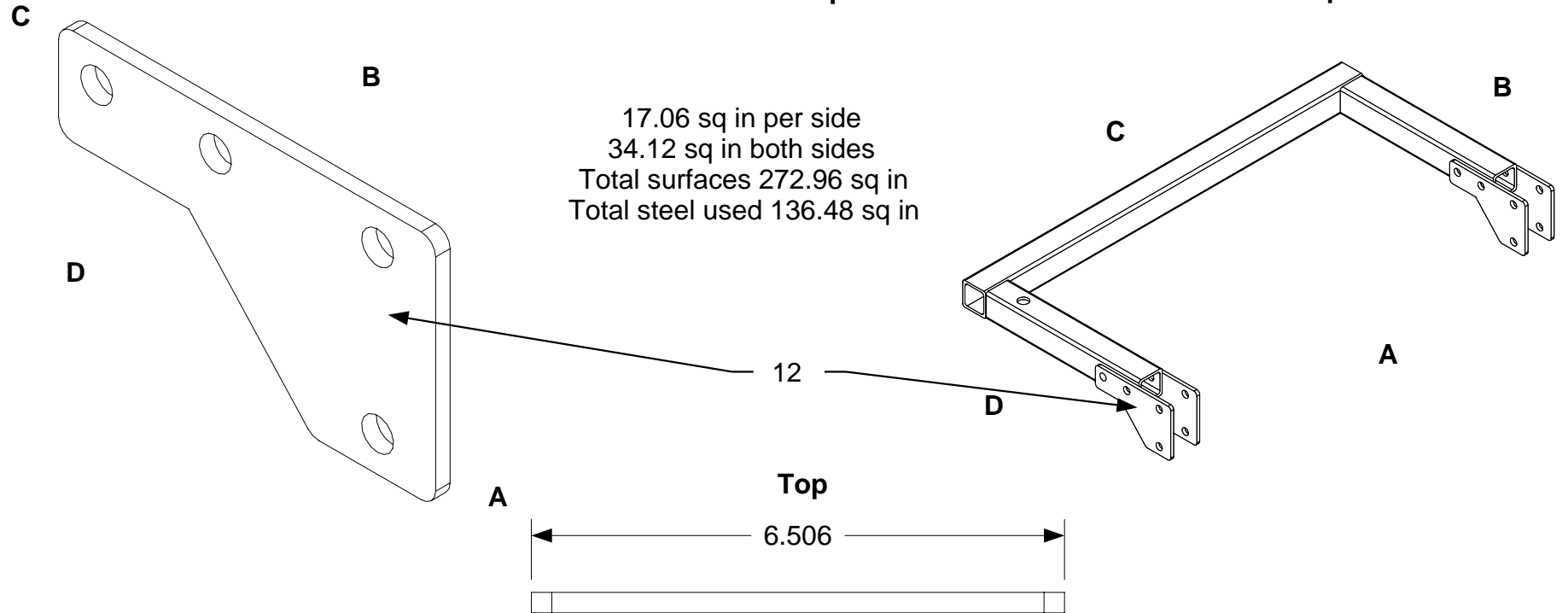
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Part 12 amount used per house 8

Fold up Table E Part 12



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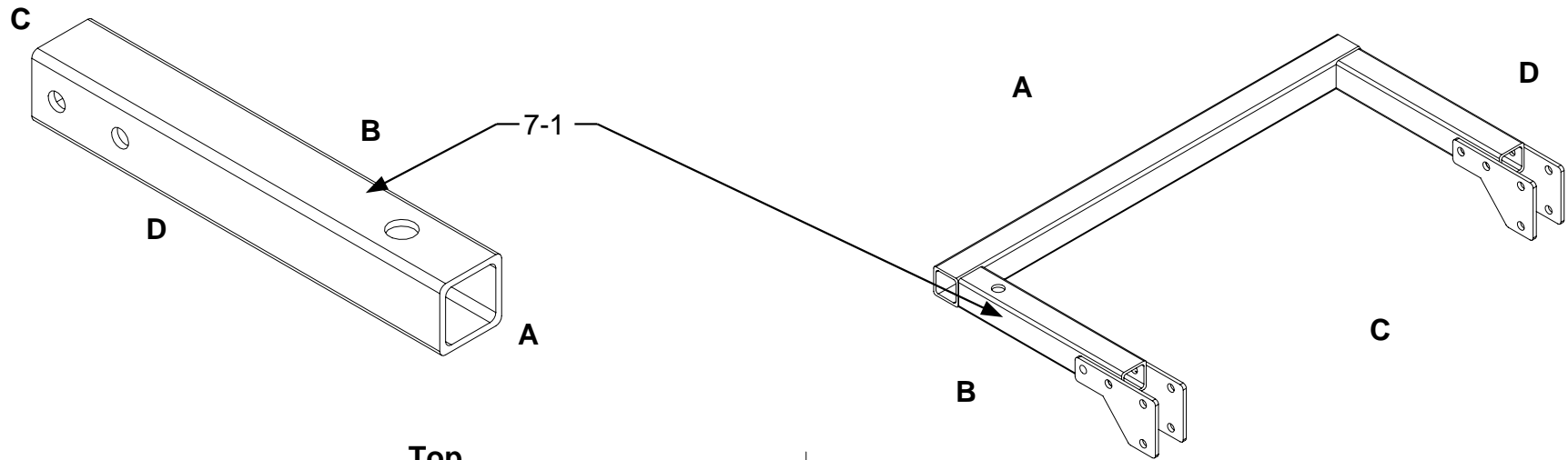
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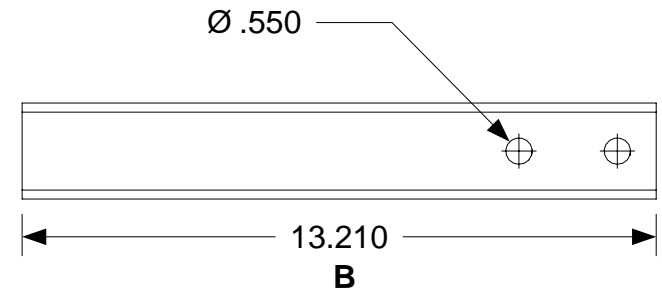
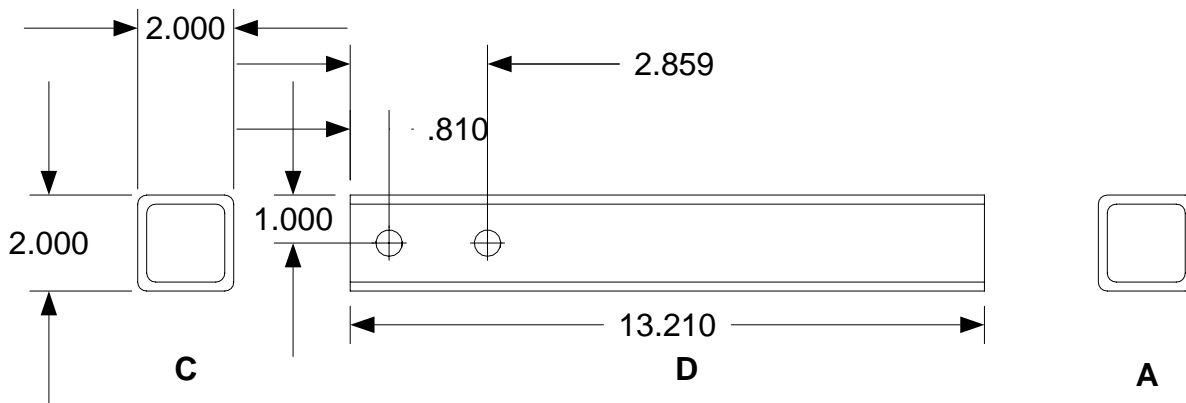
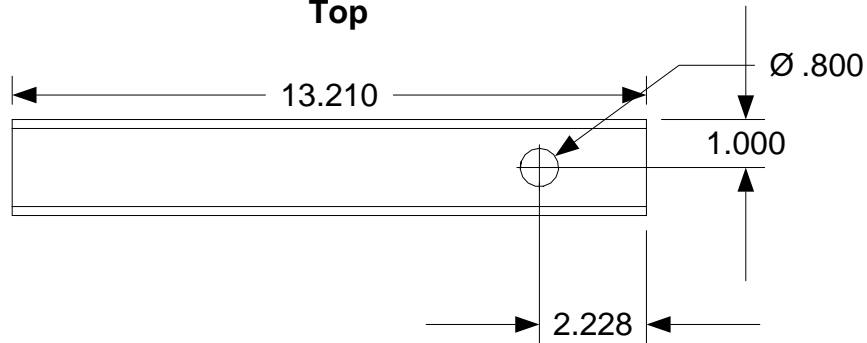
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Part 7-1 amount used per house 2

Fold up Tables E Part 7-1



Top



Steel Manufacturing Section

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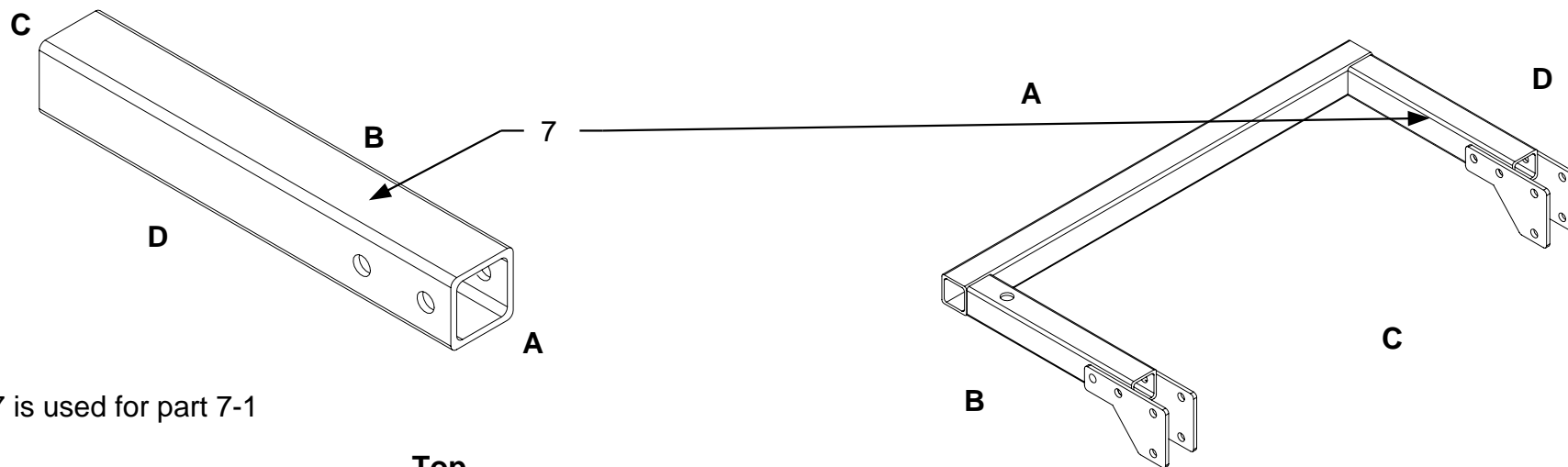
***Hurricane and Earthquake Resistant
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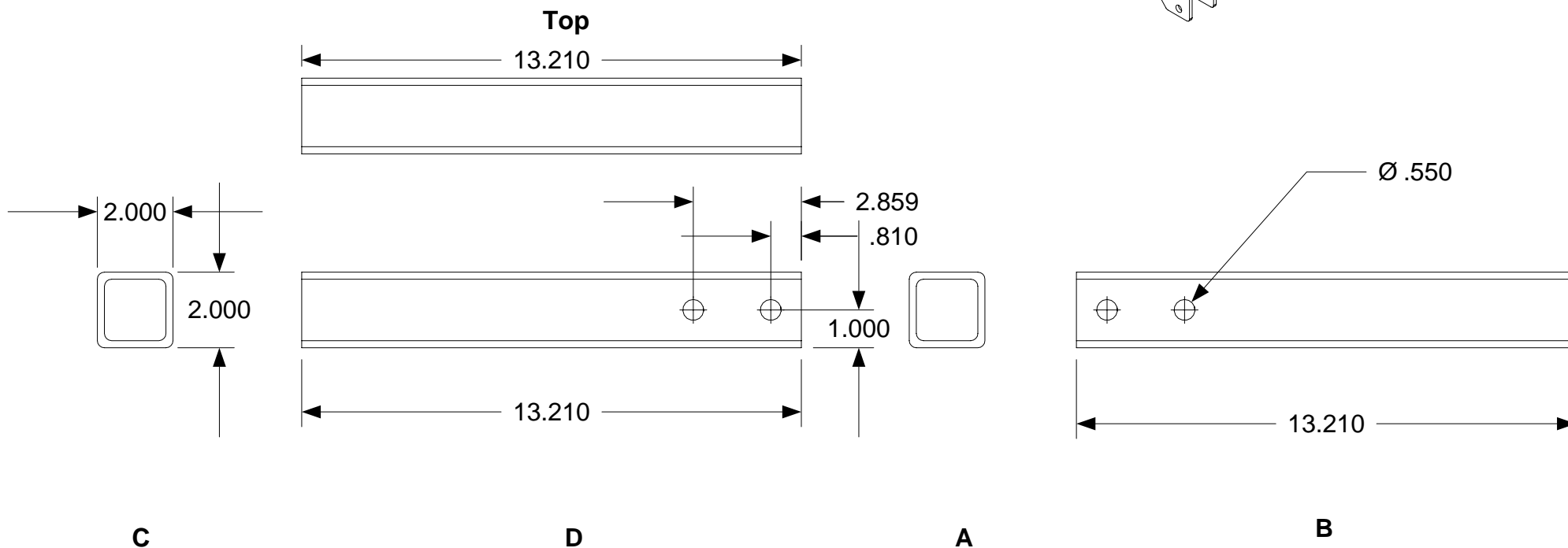
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Part 7 amount used per house 2

Fold up Tables E Part 7



Part 7 is used for part 7-1



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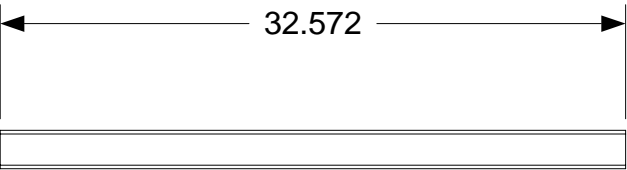
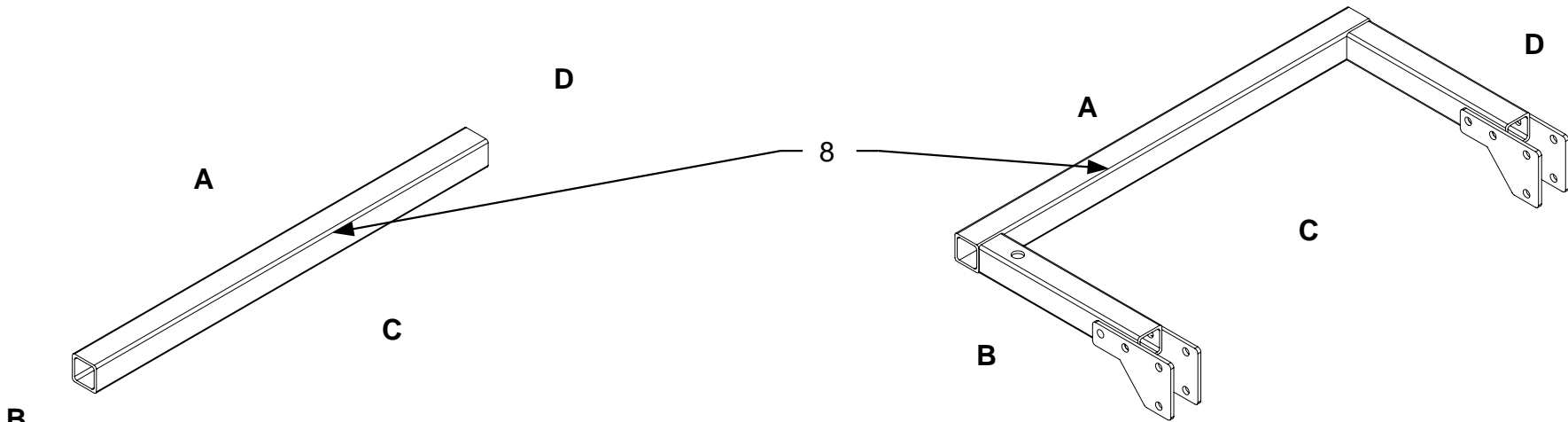
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Part 8 amount used per house 2

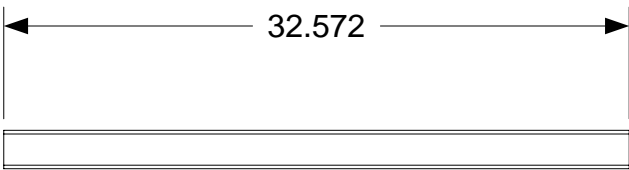
Fold up Tables E Part 8



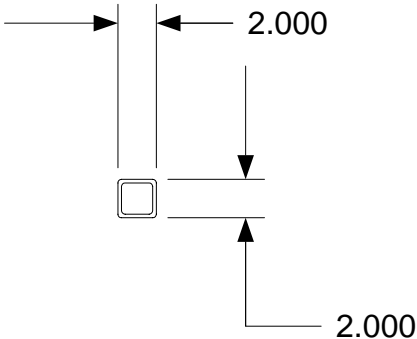
C



D



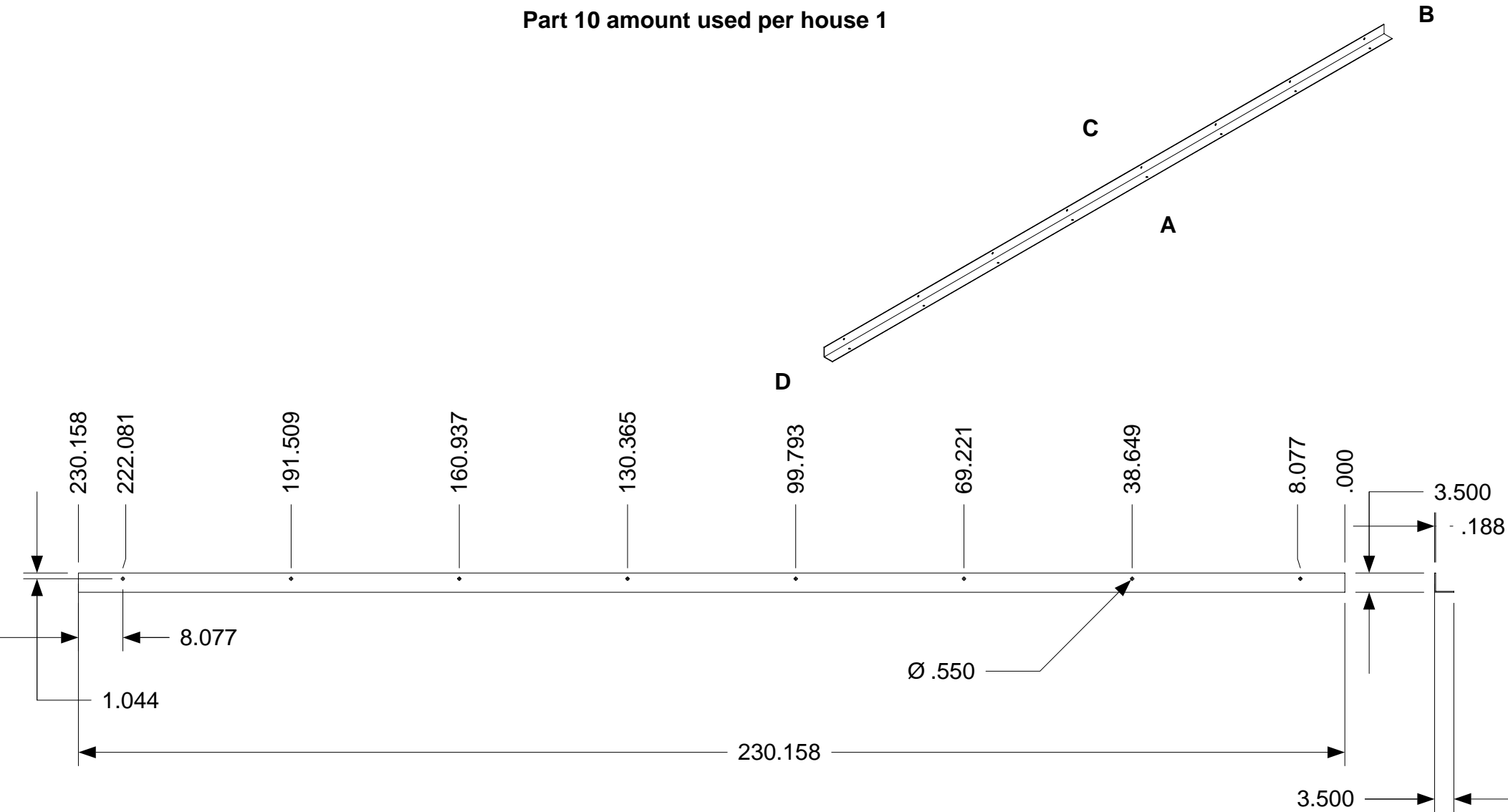
A



B

Ridge Beam Part 10

Part 10 amount used per house 1



Steel Manufacturing Section

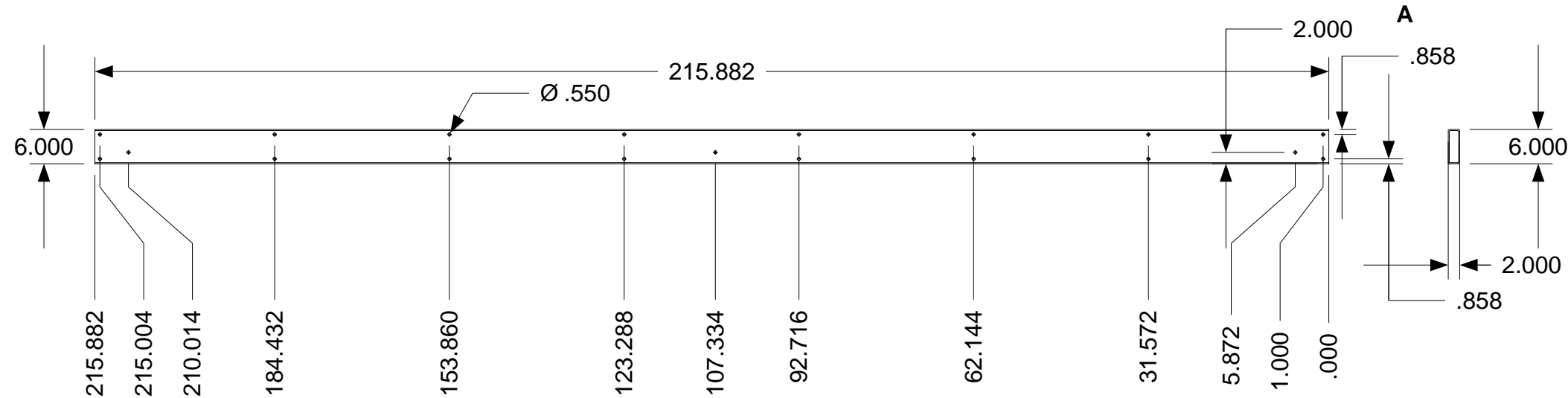
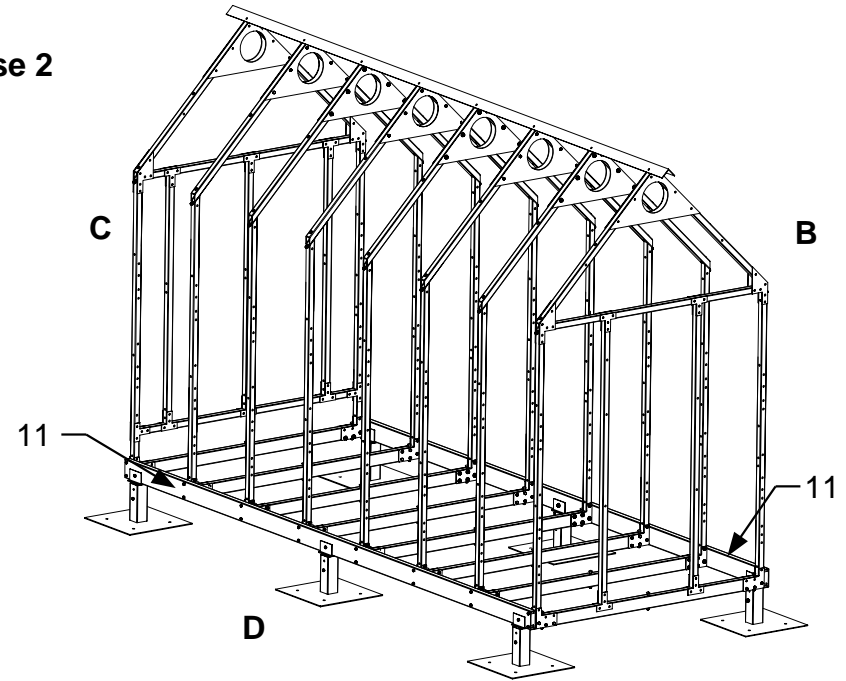
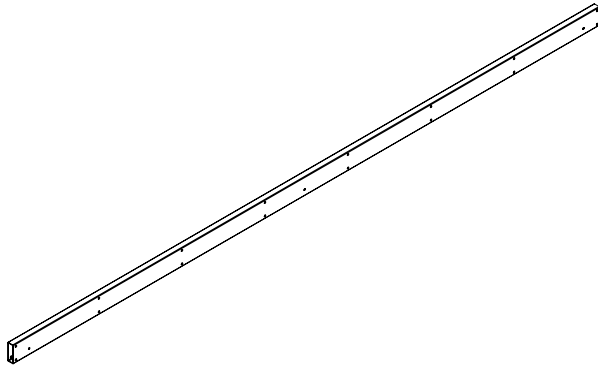
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Part 11 amount used per house 2



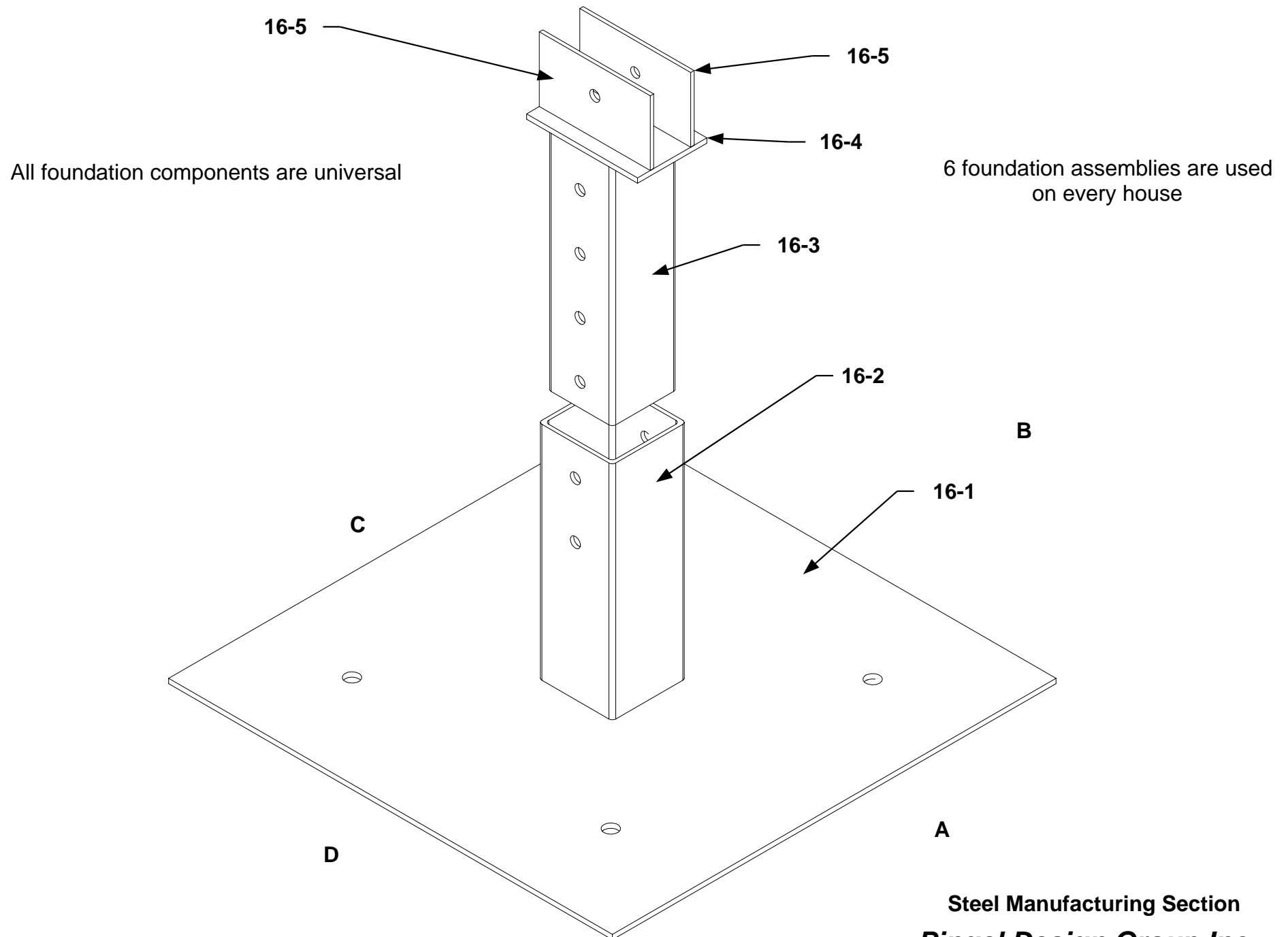
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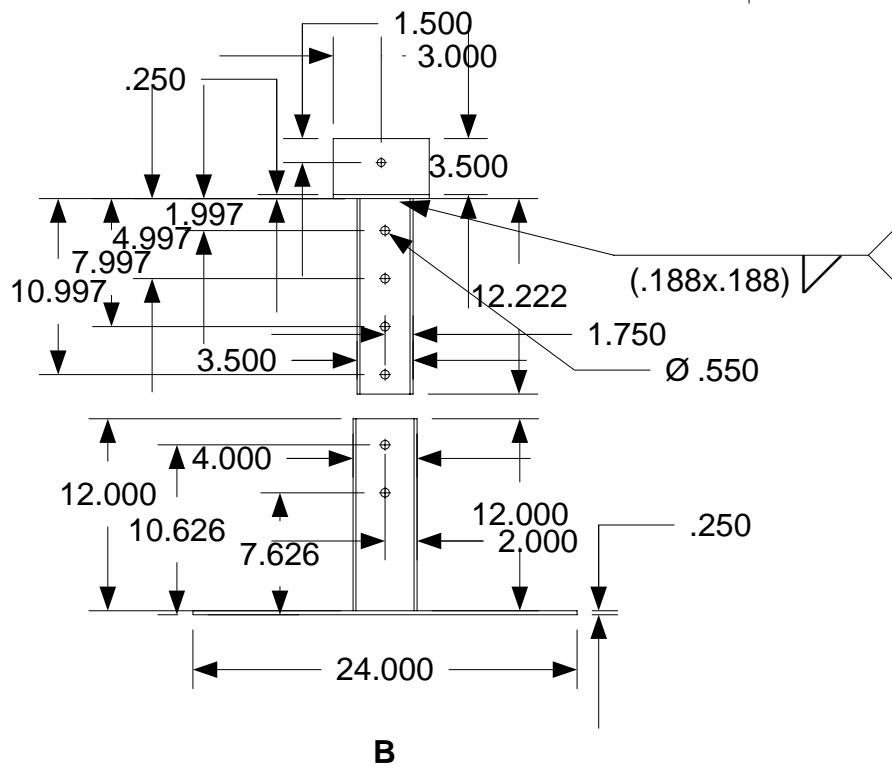
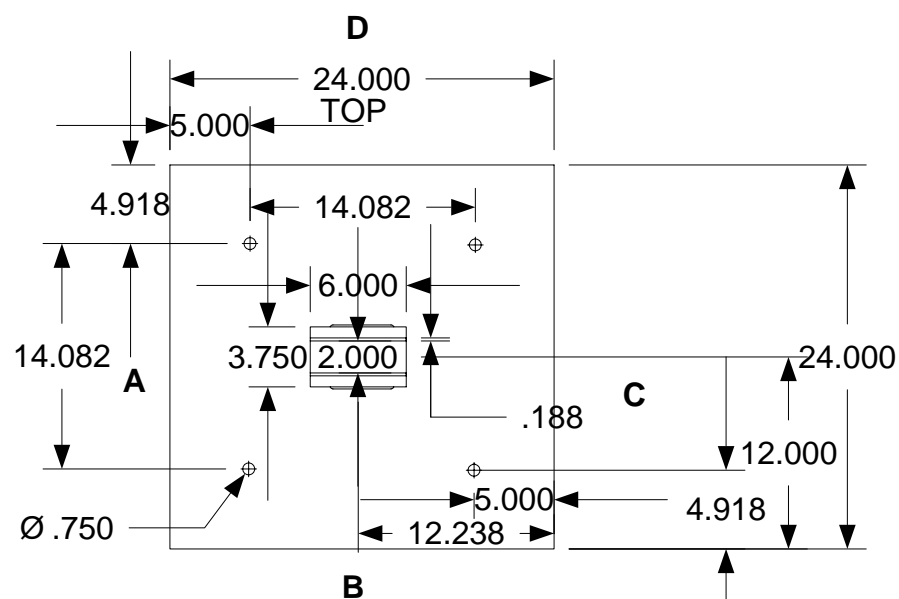
Foundation Identification 16



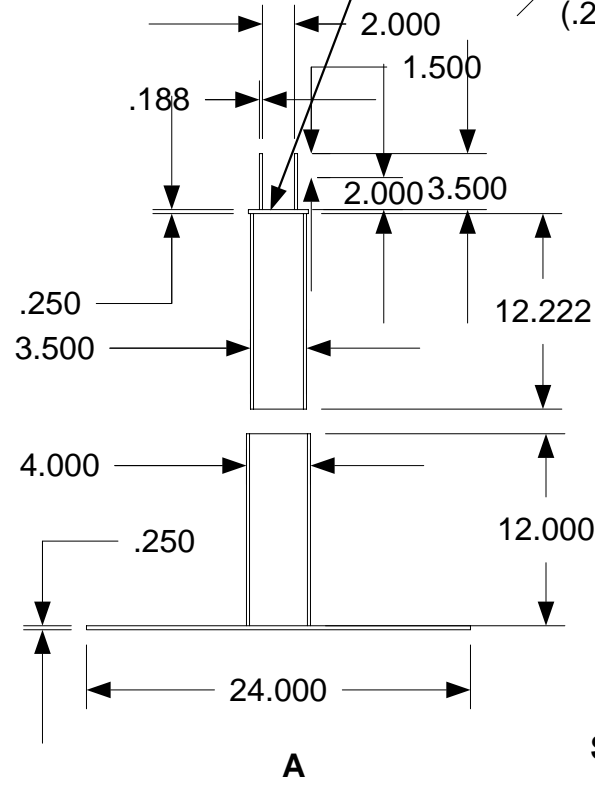
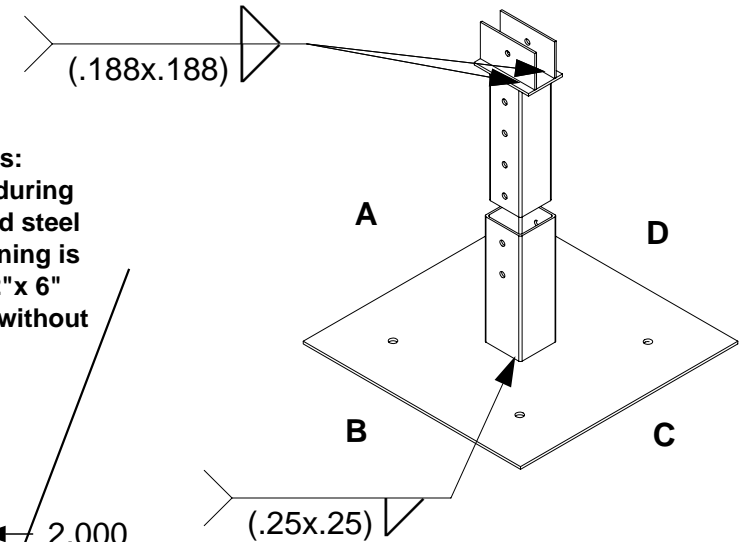
All foundation components are universal

6 foundation assemblies are used on every house

Foundation measurement 16-1-5



Allowed changes:
Due to deformation during welding and D shaped steel tubing, increase opening is allowed to receive 2"x 6" tube. Tube should fit without force fitting.



Holes 11

Amount per structure - 6

ASTM500 A
4" x 4" x .25"
3.5" x 3.5" x .25
.25 plate
.188 plate

inches of weld
16" of .25
40" of .188

Total .25" inches of weld 96"
Total .188" inches of weld 240"

Steel Manufacturing Section

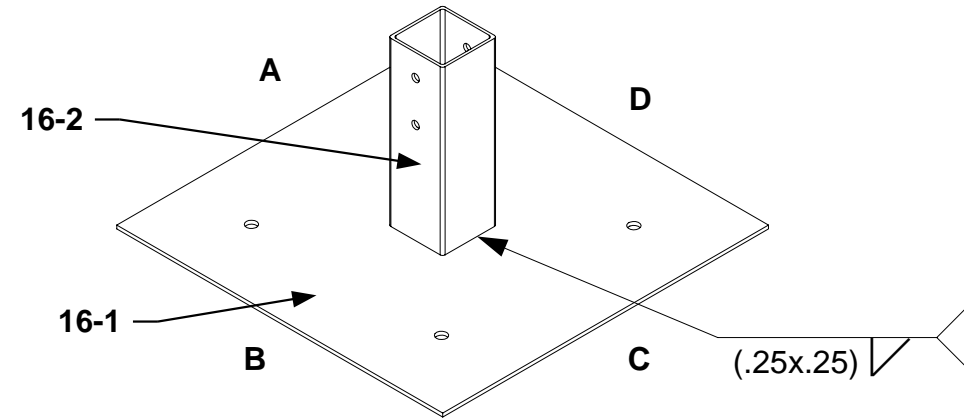
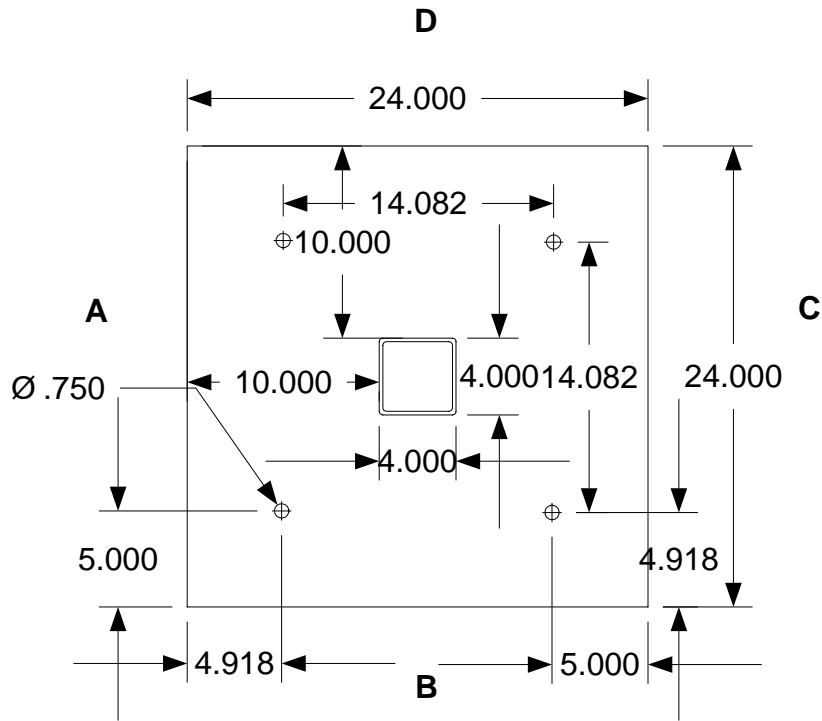
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Foundation Parts 16-1 & 16-2

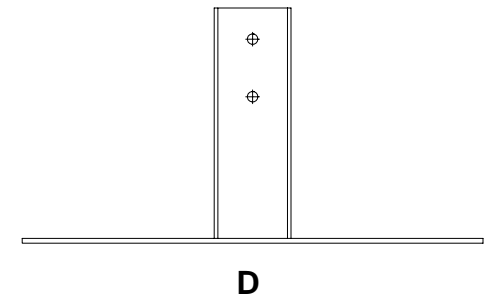
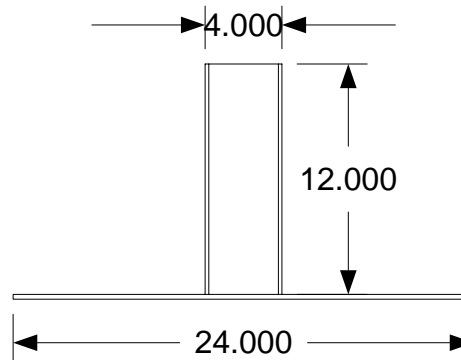
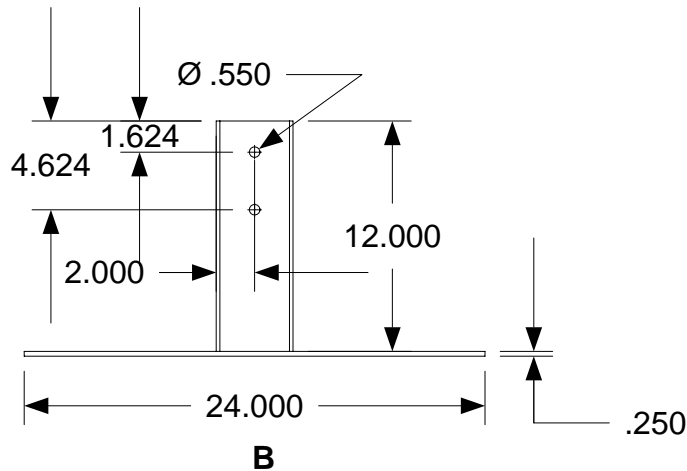
All foundation components are universal



6 foundation parts 14 & 15 are used on every house

24" x 24" x .25 Part 14 amount - 6

4" x 4" x .25" x 12" Part 15 amount - 6

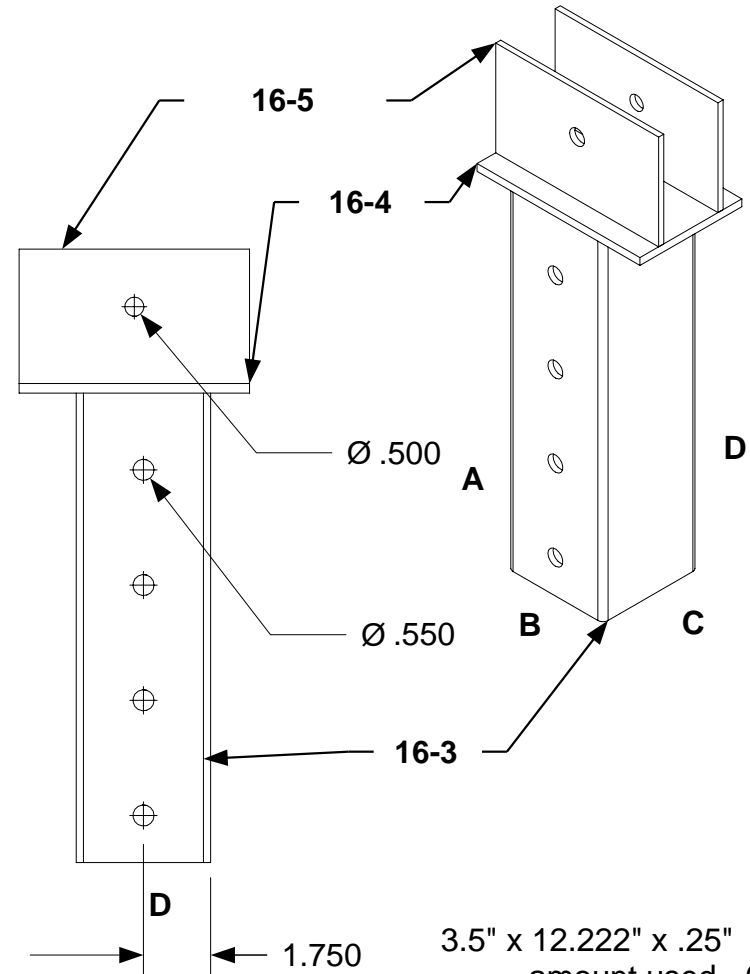
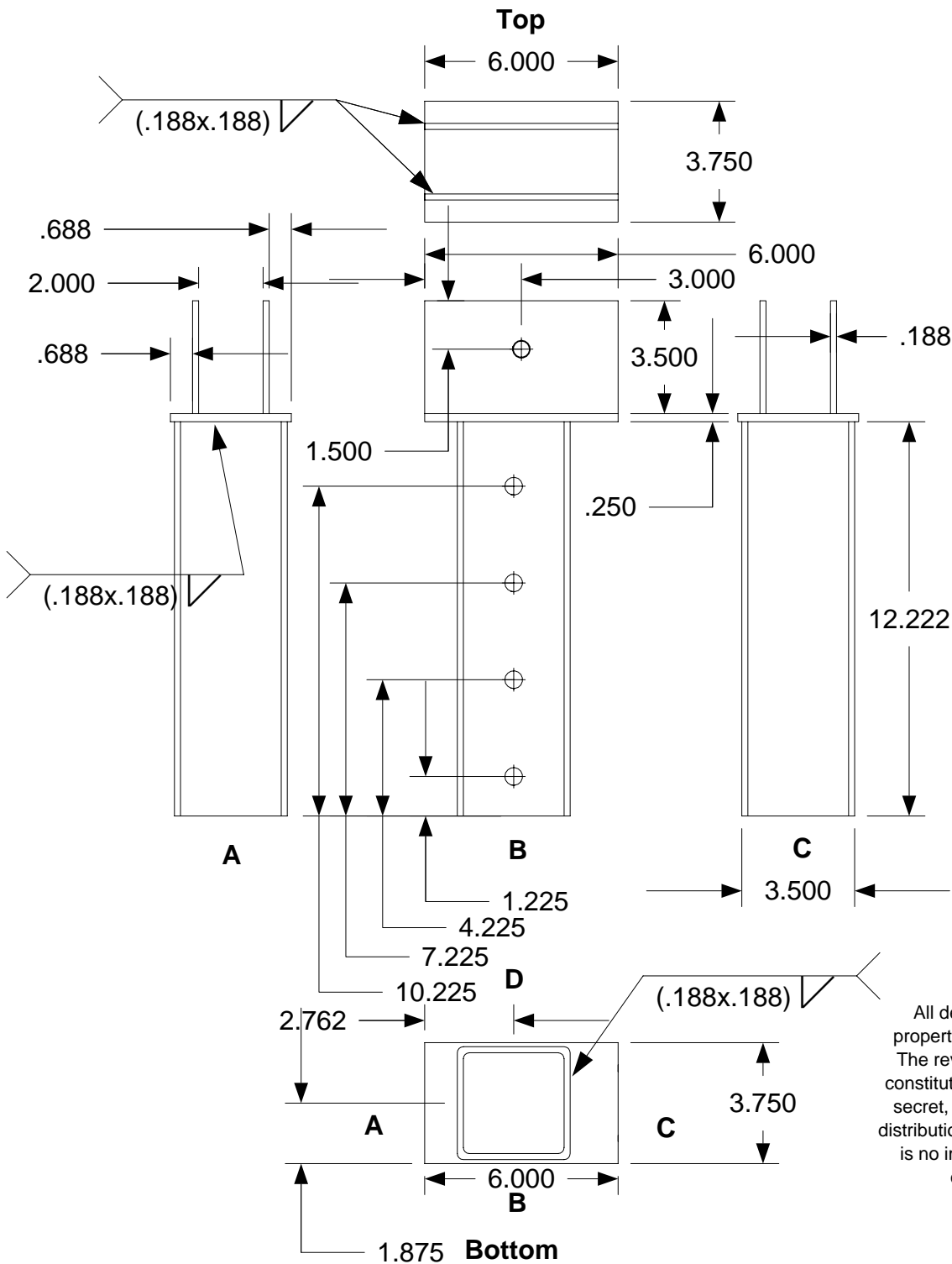


Steel Manufacturing Section
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**Hurricane and Earthquake Resistant
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Foundation Parts 16-3 16-4 16-5



3.5" x 12.222" x .25" Part 16
amount used - 6

3.75" x 6" x .25" Part 17
amount used - 6

3.5" x 6" x .188" Part 18
amount used - 12

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Steel Manufacturing Section
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Hurricane and Earthquake Resistant
Disaster Relief Housing

Major components

Ridge beam (no coatings)
End frame 1
Frame 2
End frame 8
Side rails 2
Foundation 1-6
Bed & Table 1-12
Panels 23

Totals materials

Welding at .188"=394.49" or 32.87'
Welding at .25"=96" or 8'
2"x2"x.188" tubing=5037.28" or 419.77'
2"x4"x.188" tubing=672" or 56'
2"x6"x.188" tubing=432" or 36'
L angle 3.5"x3.5" x.188"x 216" or 18'
.188" plate=23.368 sq ft
.25" Plate=24.93 sq ft
4"x4"x.25" tubing=72" or 6'
3.5"x3.5"x.25" tubing=72" or 6'
Surface area to coat cover 474.57 sq ft

Bolts / Nuts / Washers

Floor

Bolts (Round)	.5x5.5
Standard nut	.5x.4375
Washer (Plain)	.5x.1
Total assembled units	27

Roof panel

Bolts (Round)	.5x1.75
Standard nut	.5x.4375
Washer (Plain)	.5x.1
Total assembled units	16

Foundation

Bolts (Standard)	.5x5.5
Standard nut	.5x.4375
Washer (Plain)	.5x.1
Total assembled units	6

Door

Bolts (Round)	.5x1.5
Standard nut	.5x.4375
Washer (Plain)	.5x.1
Total assembled units	4

Roof panel

Bolts (Round)	.5x1.5
Standard nut	.5x.4375
Washer (Plain)	.5x.1
Total assembled units	32
Total 36	

Spacer washer

Washer (Plain)	.5x.188
Total assembled units	21

Screws

(Self tapping)	.125x.75
Total assembled units	76

Rear panel

Bolts (Round)	.5x3.5
Standard nut	.5x.4375
Washer (Plain)	.5x.1
Total assembled units	42

Rear & Front End gable

Bolts (Round)	.5x3.5
Standard nut	.5x.4375
Washer (Plain)	.5x.1
Total assembled units	40

Side panel

Bolts (Round)	.5x3.5
Standard nut	.5x.4375
Washer (Plain)	.5x.1
Total assembled units	48

Door

Bolts (Round)	.5x3.5
Standard nut	.5x.4375
Washer (Plain)	.5x.1
Total assembled units	5

Frames 2-7 (bolts/nuts/washers)

Bolts (Standard)	.5x3.5
Standard nut	.5x.4375
Washer (Plain)	.5x.1
Total assembled units	108

Total 243

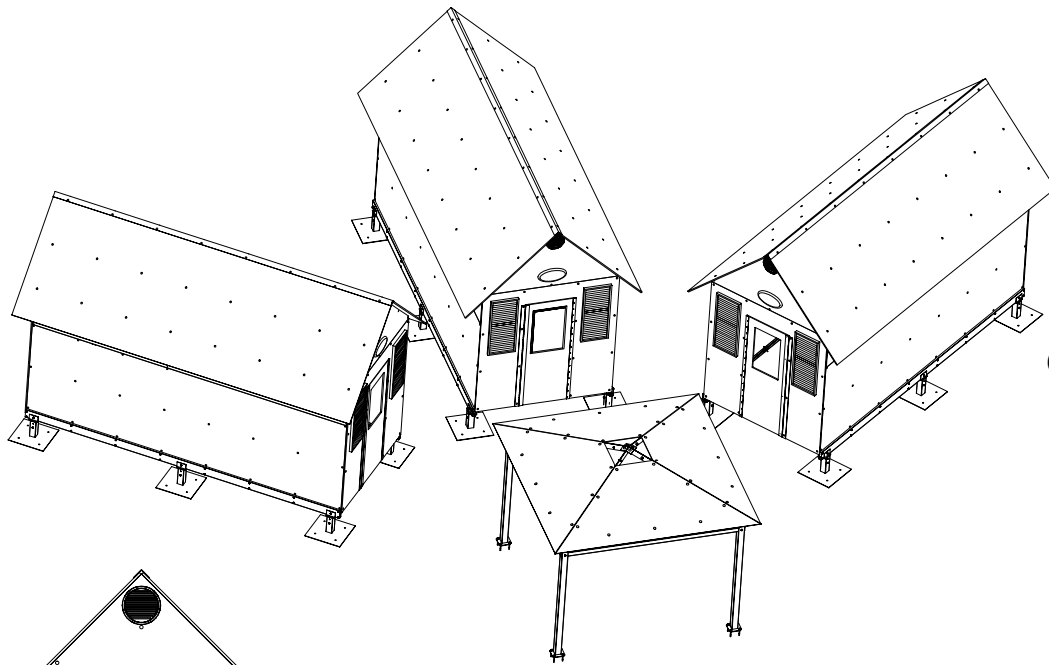
Panels total sq ft

.5-Rear panel #9=	58.09 sq ft
.5-Front panel & Door / Table #4=	58.09 sq ft
.5-End Gable panels#5- 14.22 sq ft each =	28.44 sq ft
.5-Side panels #2-100.67 sq ft each =	201.34 sq ft
.5-Roof panel #1-129.35 sq ft each=	258.70 sq ft
.75-Floor panel #3-	125.62 sq ft
.5-Window support strip #8-6.75 sq ft each=	13.50 sq ft
.5-Window panel large #6-8.87 sq ft each=	17.74 sq ft
.5-Window panel Small #7-6.68 sq ft each=	13.36 sq ft
.5-Beds Panels #10-6-19.5 sq ft each =	117.00 sq ft

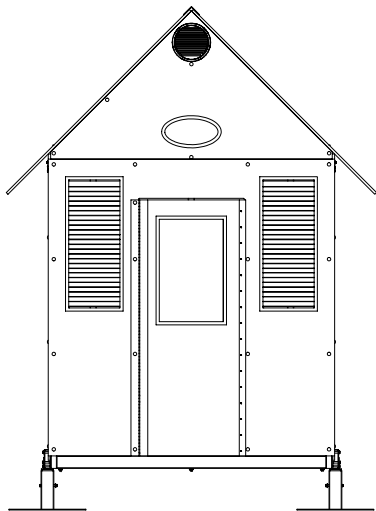
Total sq ft 891.88 sq ft

Total sq ft of .5- 766.26 sq ft

Total sq ft of .75- 125.62 sq ft

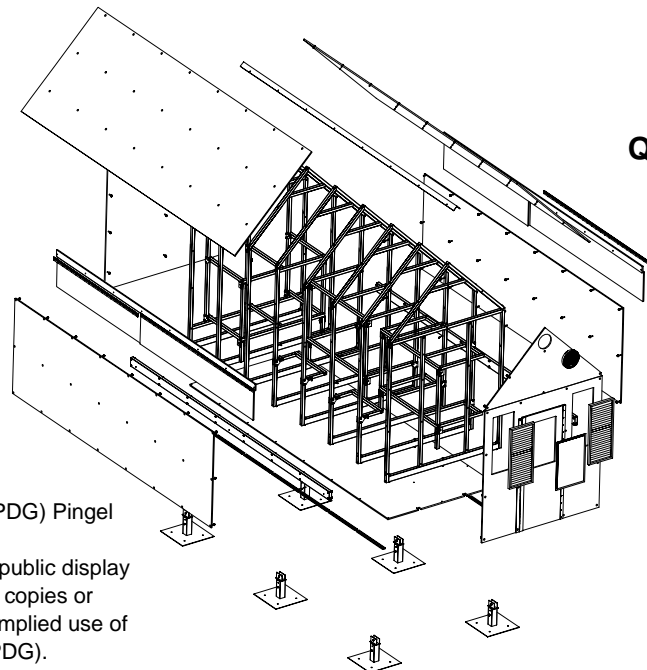


City plan flexible



Permanent or Reusable

Pingel Design Group Inc
Disaster Relief Housing
Hurricane & Earthquake Resistant



Quick Assembly

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Panel Manufacturing Section

***Hurricane and Earthquake Resistant Disaster Relief Housing
Quick Assembly-Permanent or Reusable-Social Planning Flexible***

Haiti House Concept

Can be placed on the ground with or without foundation

No cutting or adjusting required during construction

Fast build (one day with two people)

Requires simple tools for assembly

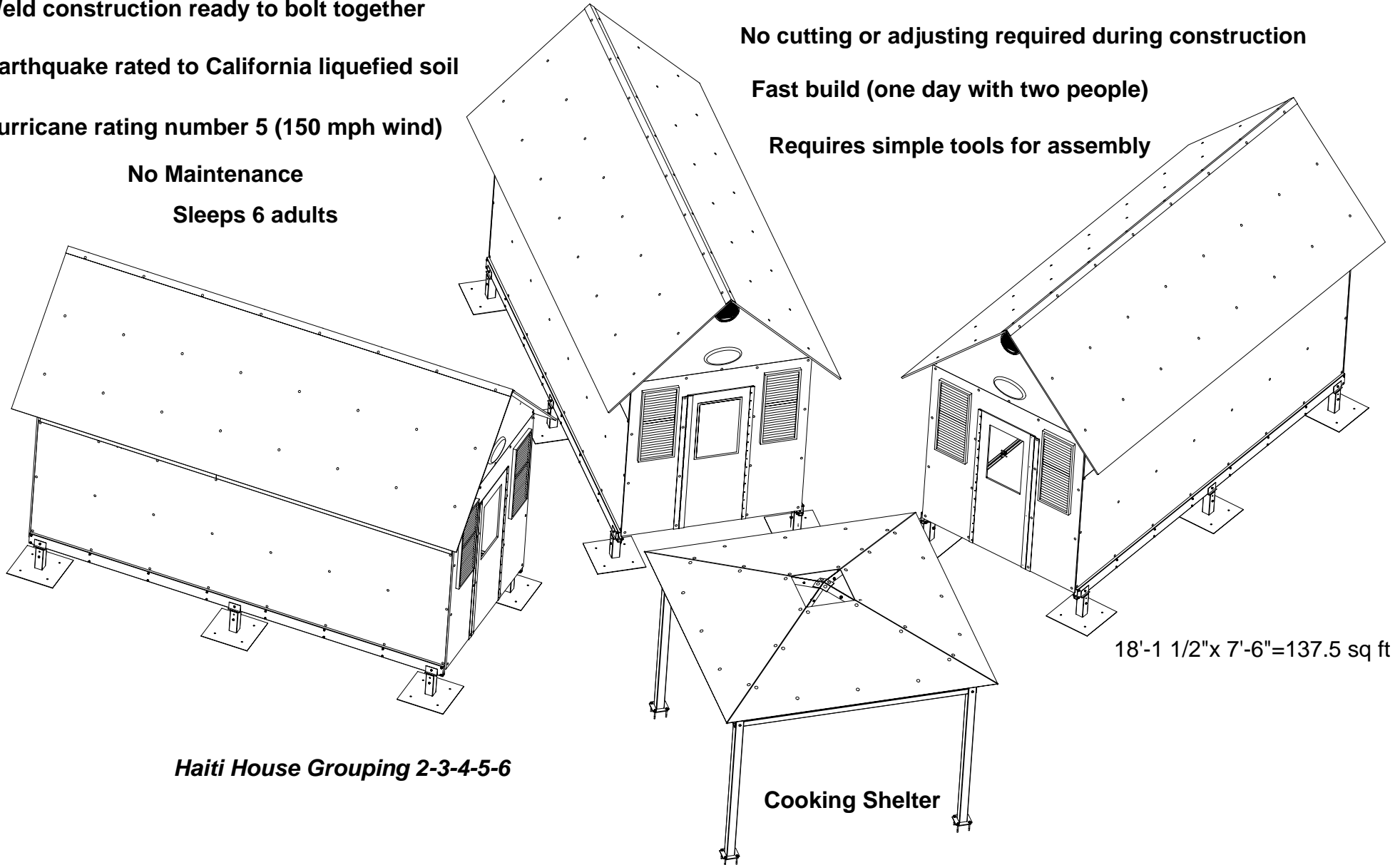
Weld construction ready to bolt together

Earthquake rated to California liquefied soil

Hurricane rating number 5 (150 mph wind)

No Maintenance

Sleeps 6 adults



Haiti House Grouping 2-3-4-5-6

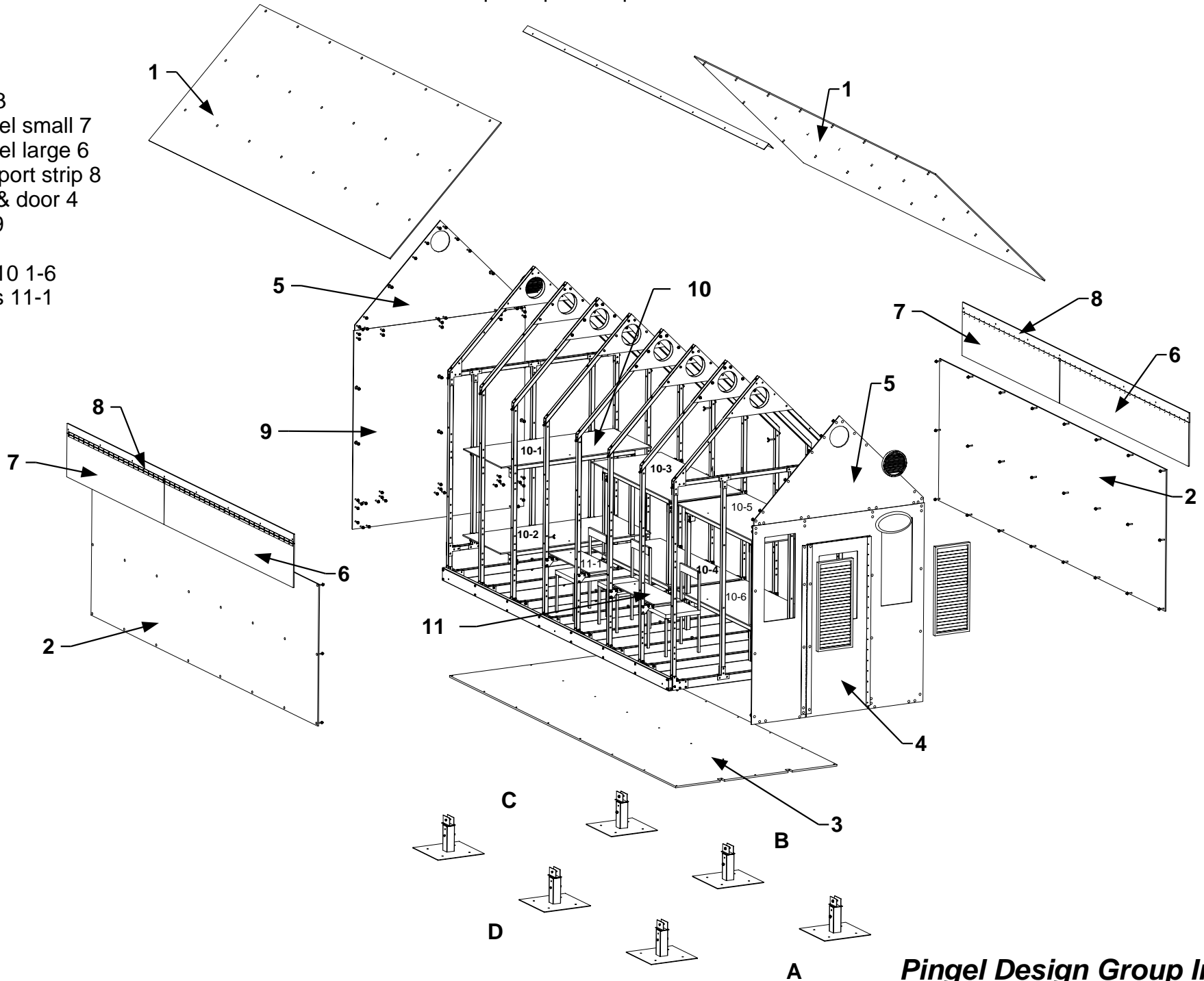
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Haiti House

23 panel parts to produce

Panel Identification

Roof panel 1
Side panel 2
Floor panel 3
Window panel small 7
Window panel large 6
Window support strip 8
Front panel & door 4
Rear panel 9
End gable 5
Bed panels 10 1-6
Table panels 11-1

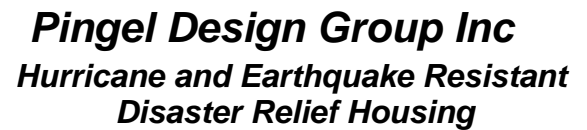


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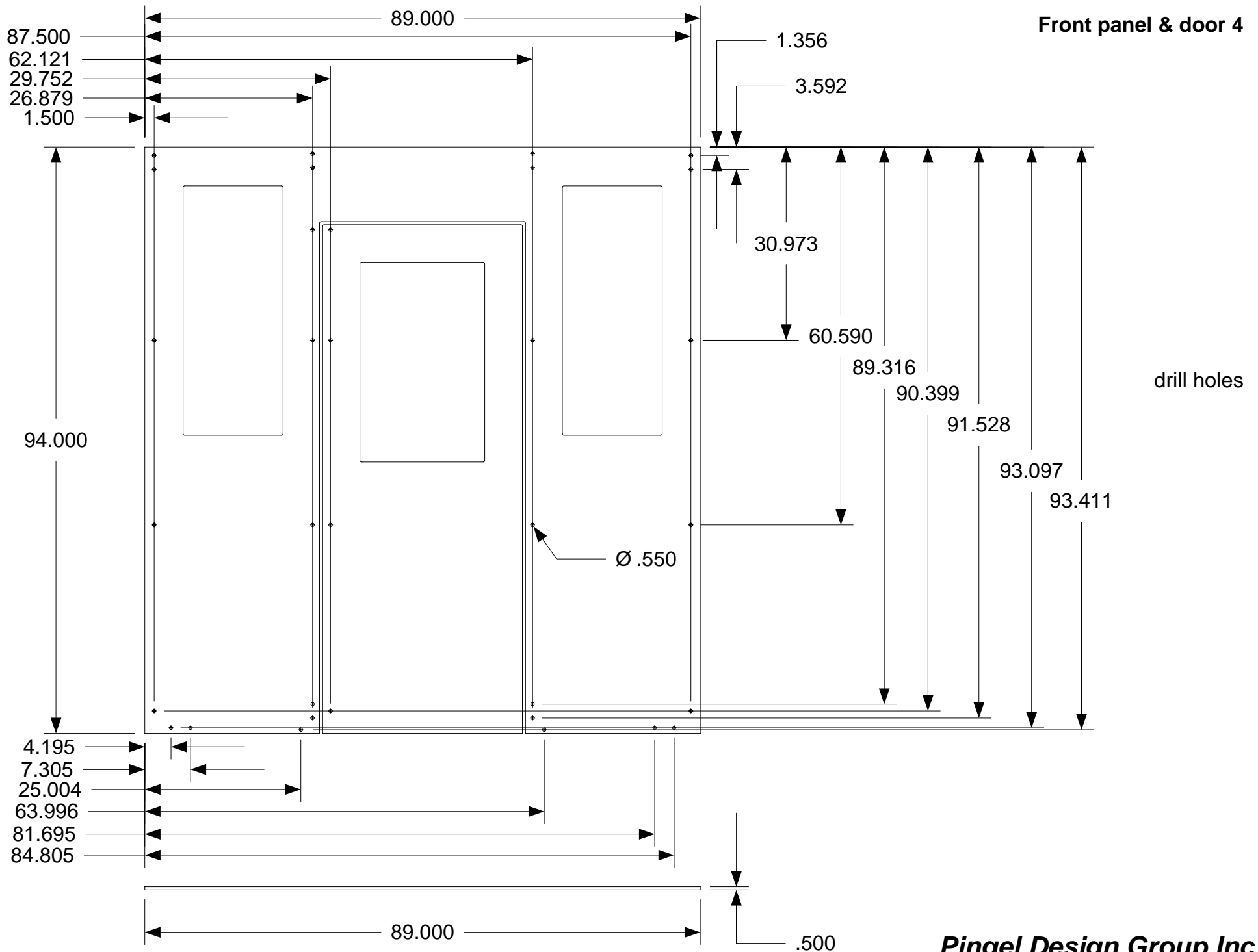
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Front panel & door 4



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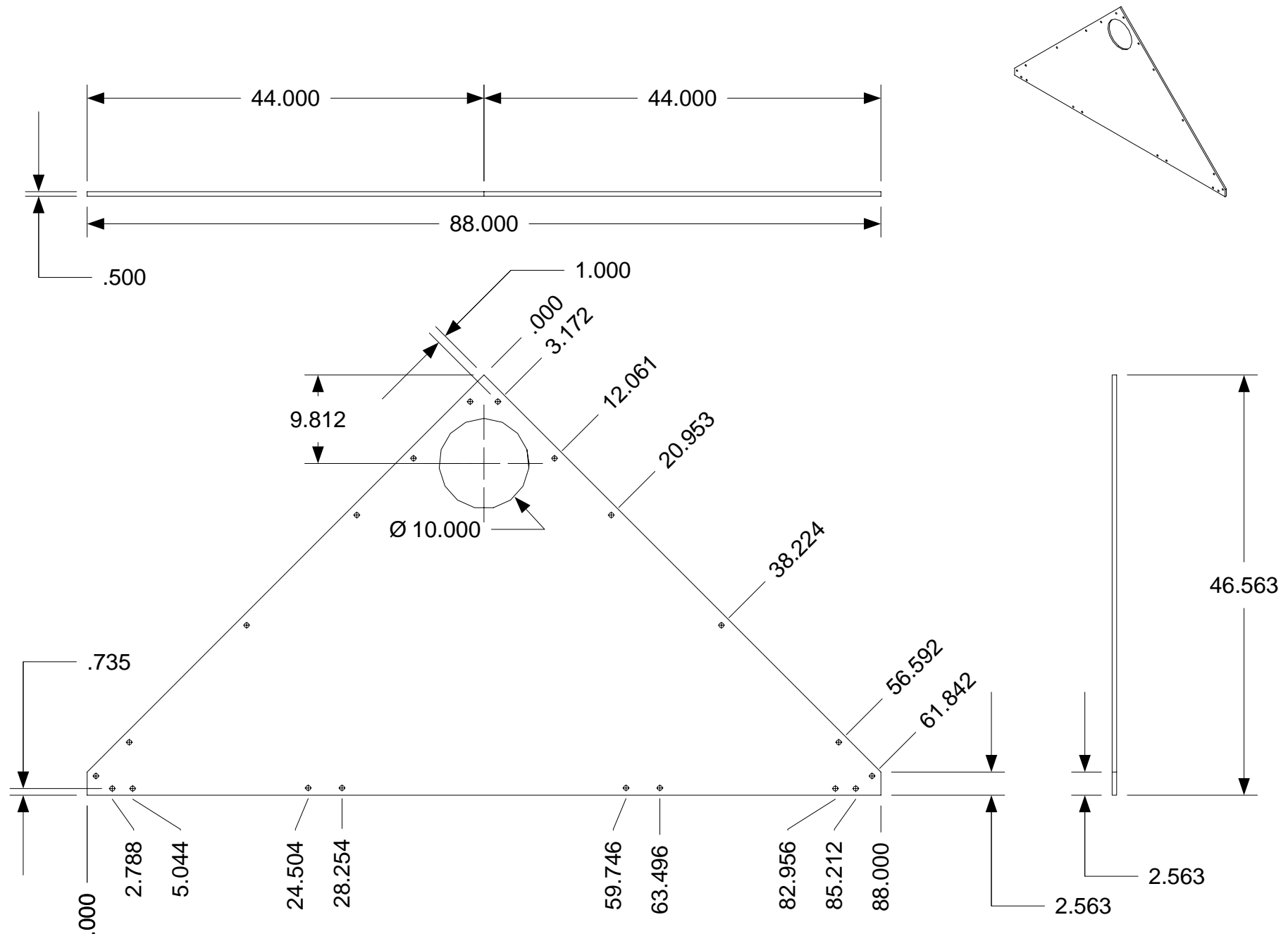


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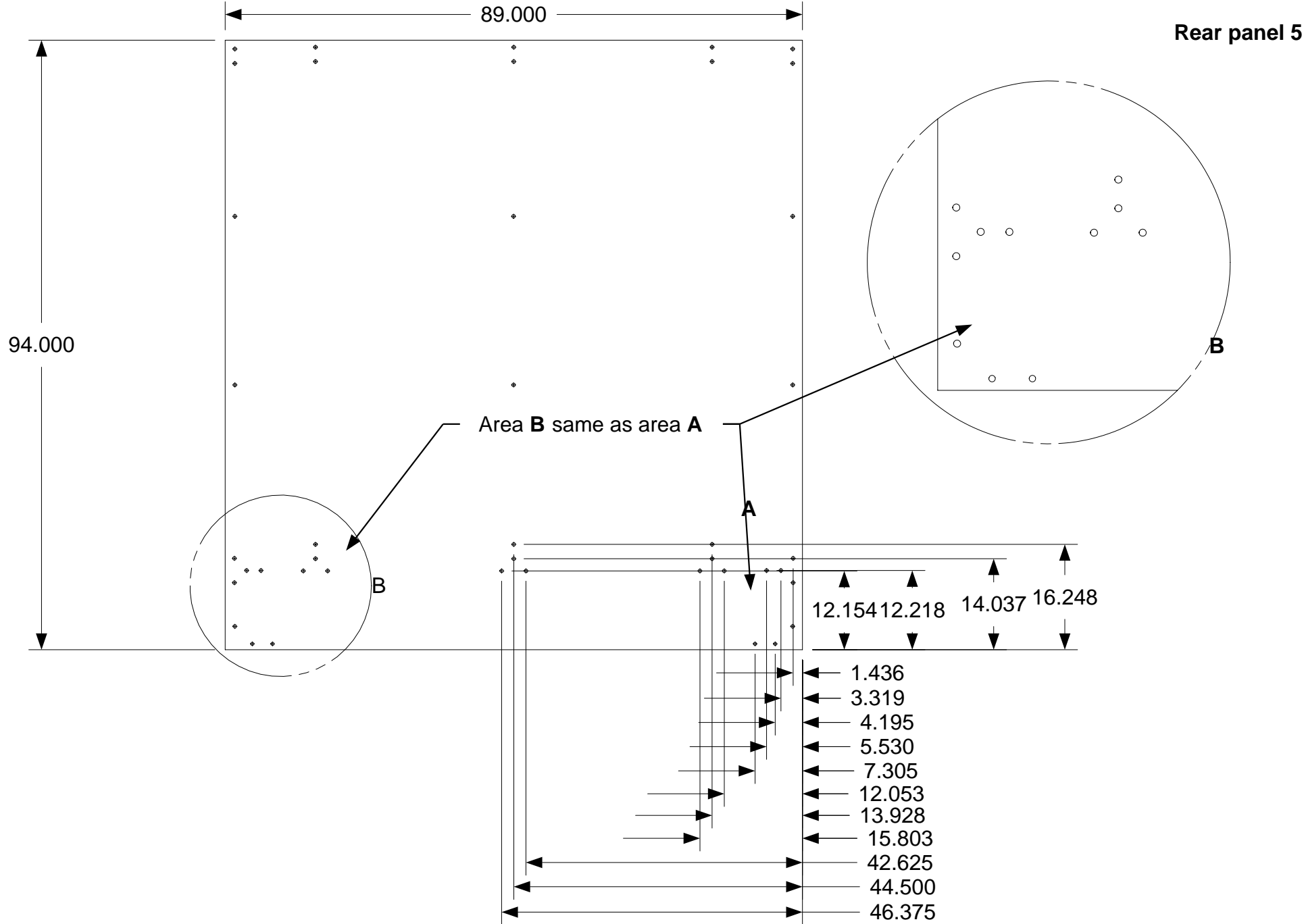
End Gable panel 5



Amount of panels used per house 2

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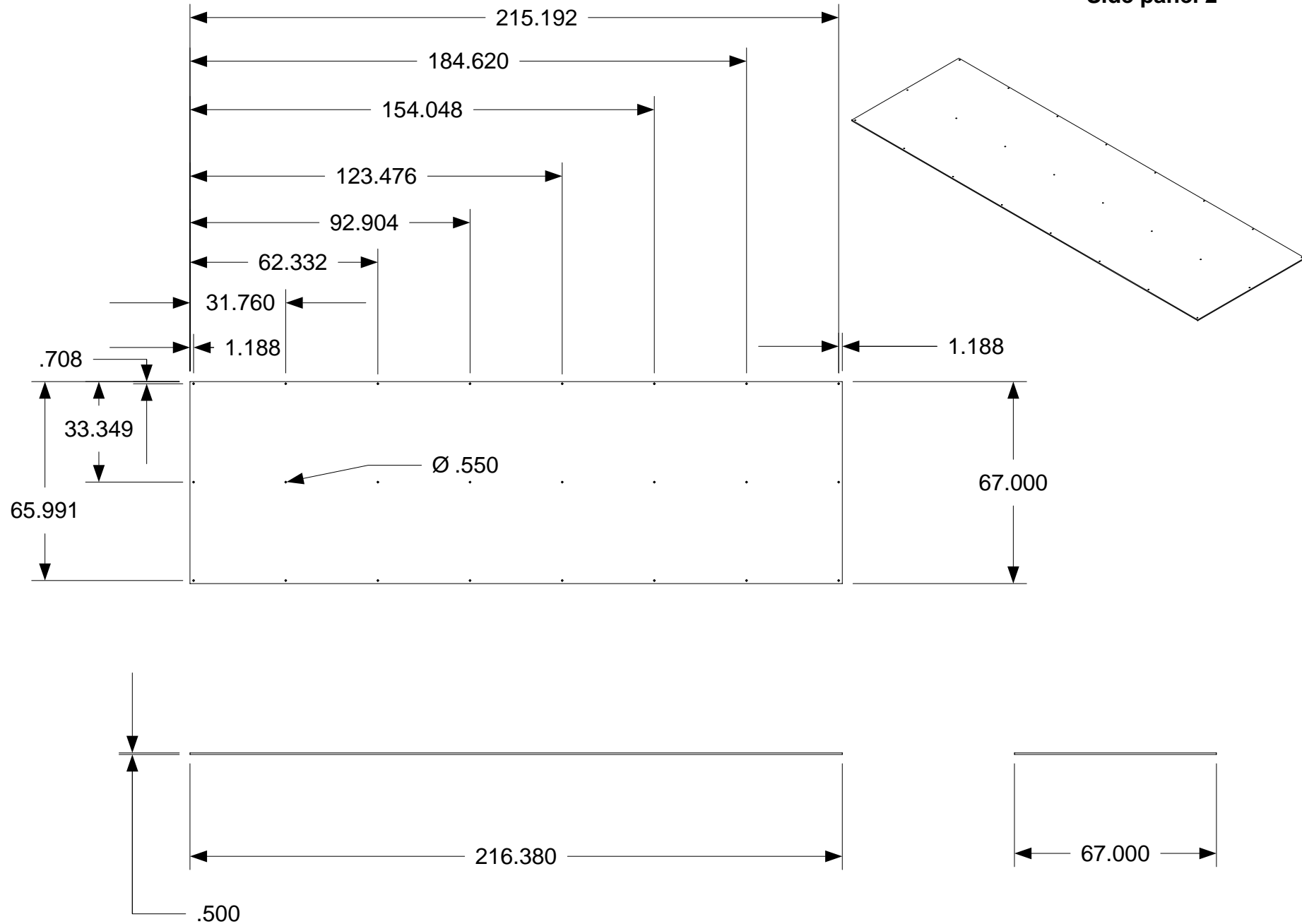
Amount of panels used per house 1

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Per house, 2 interchangeable side panels

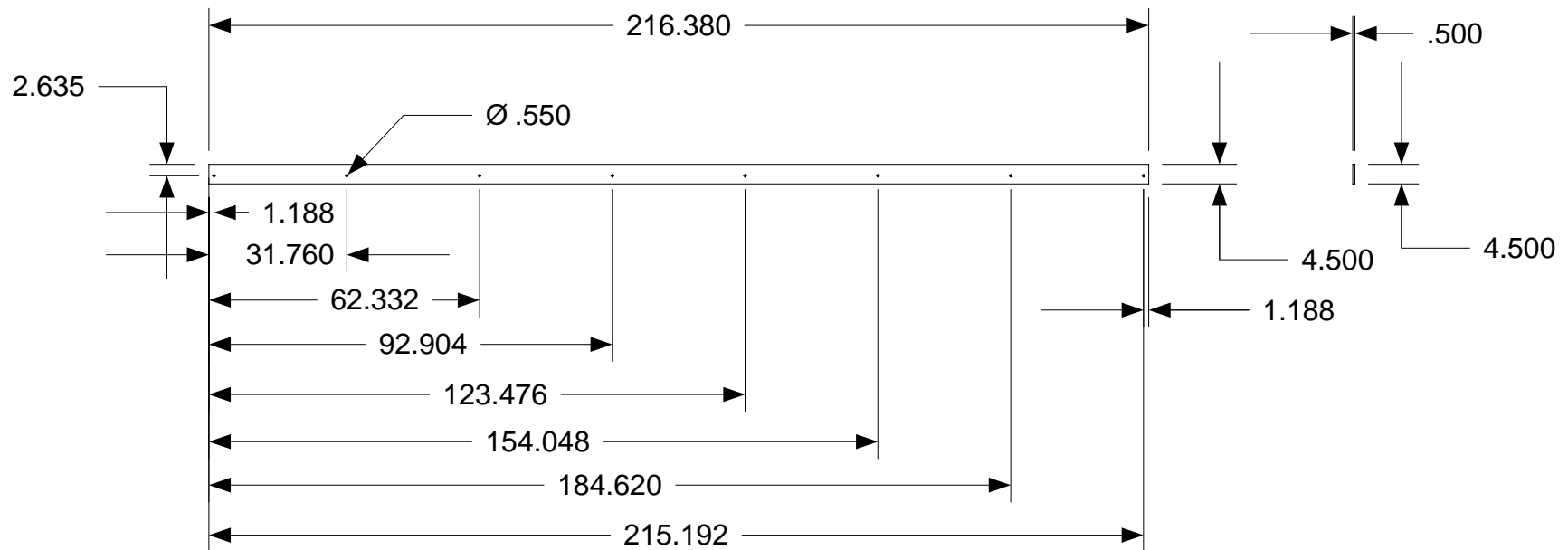
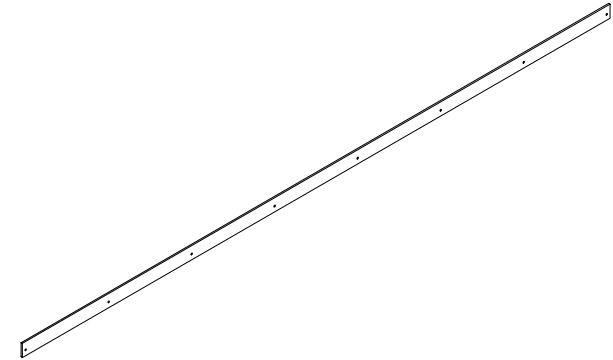
Side panel 2



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Window support strip 8

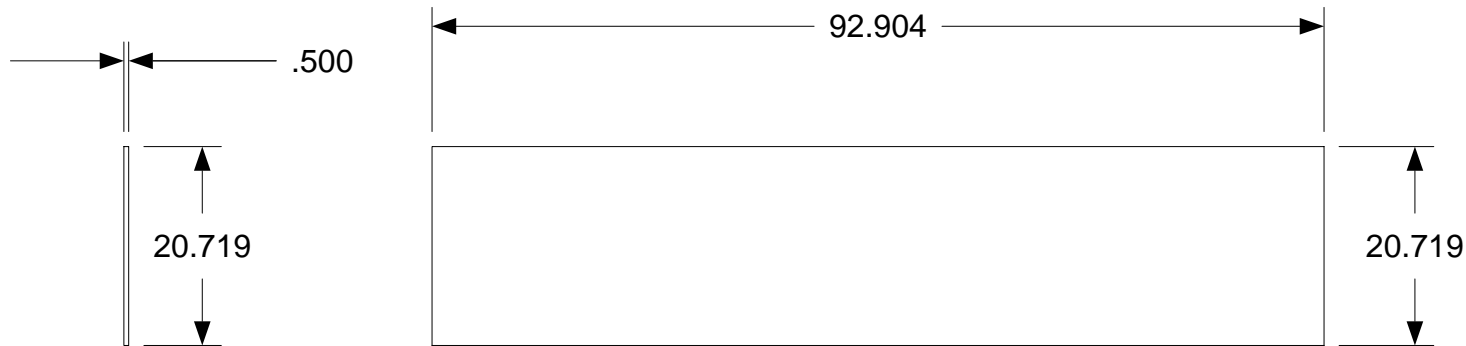
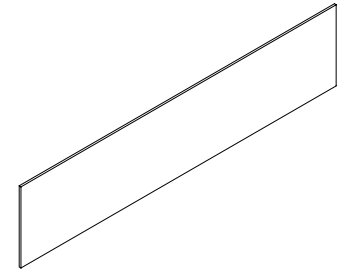


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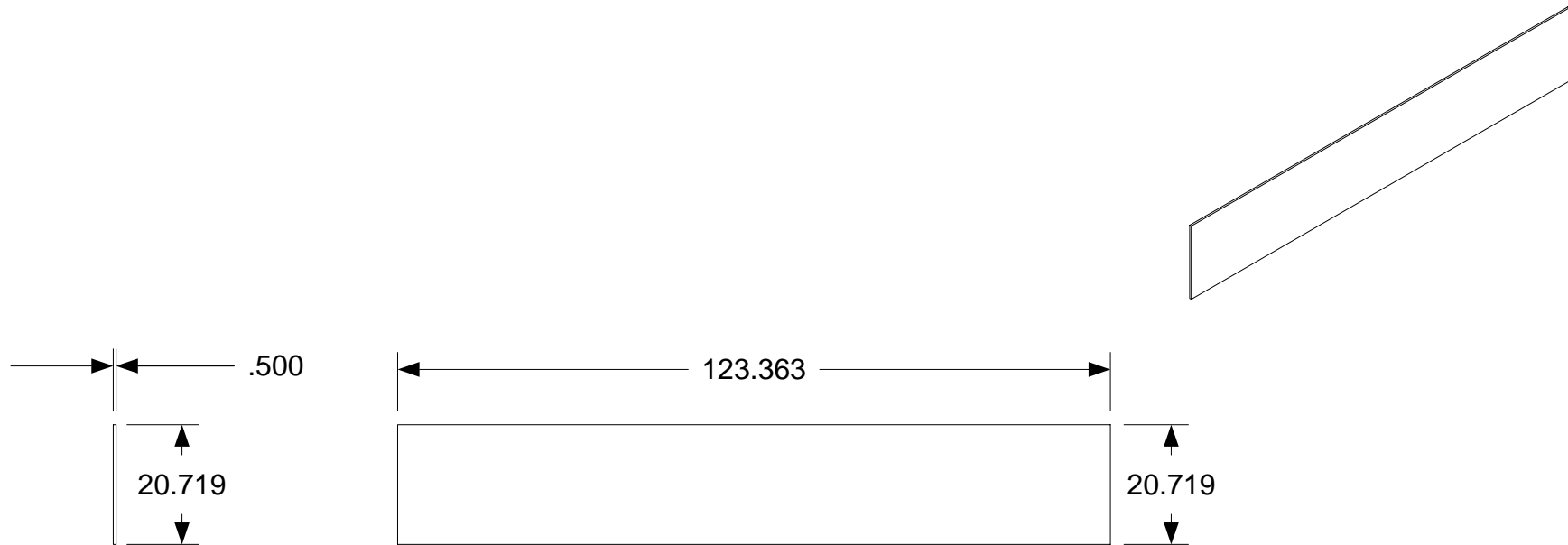
Window panel small 7

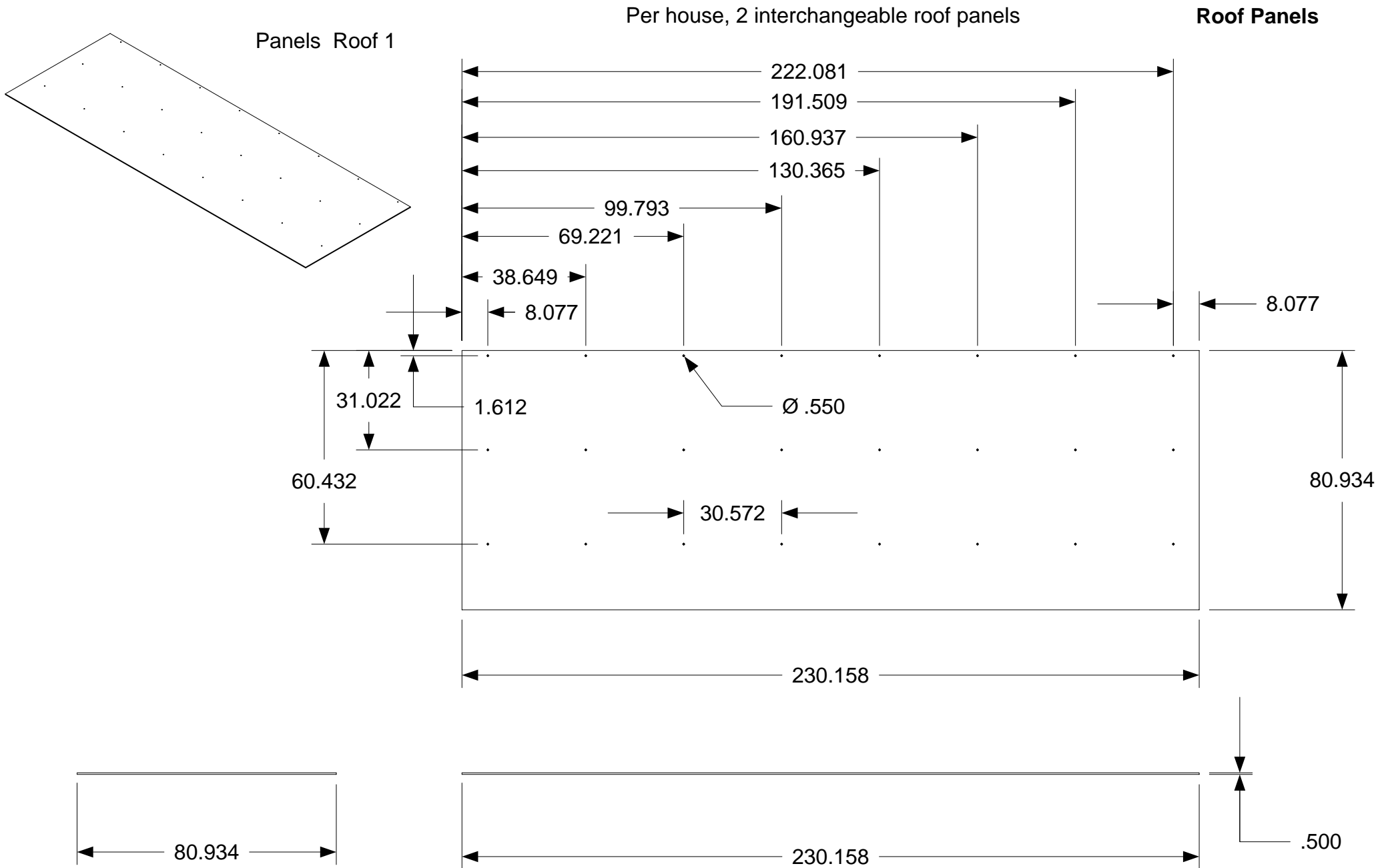
Per house, 2 interchangeable window small panels



Window panel large 6

Per house, 2 interchangeable window large panels

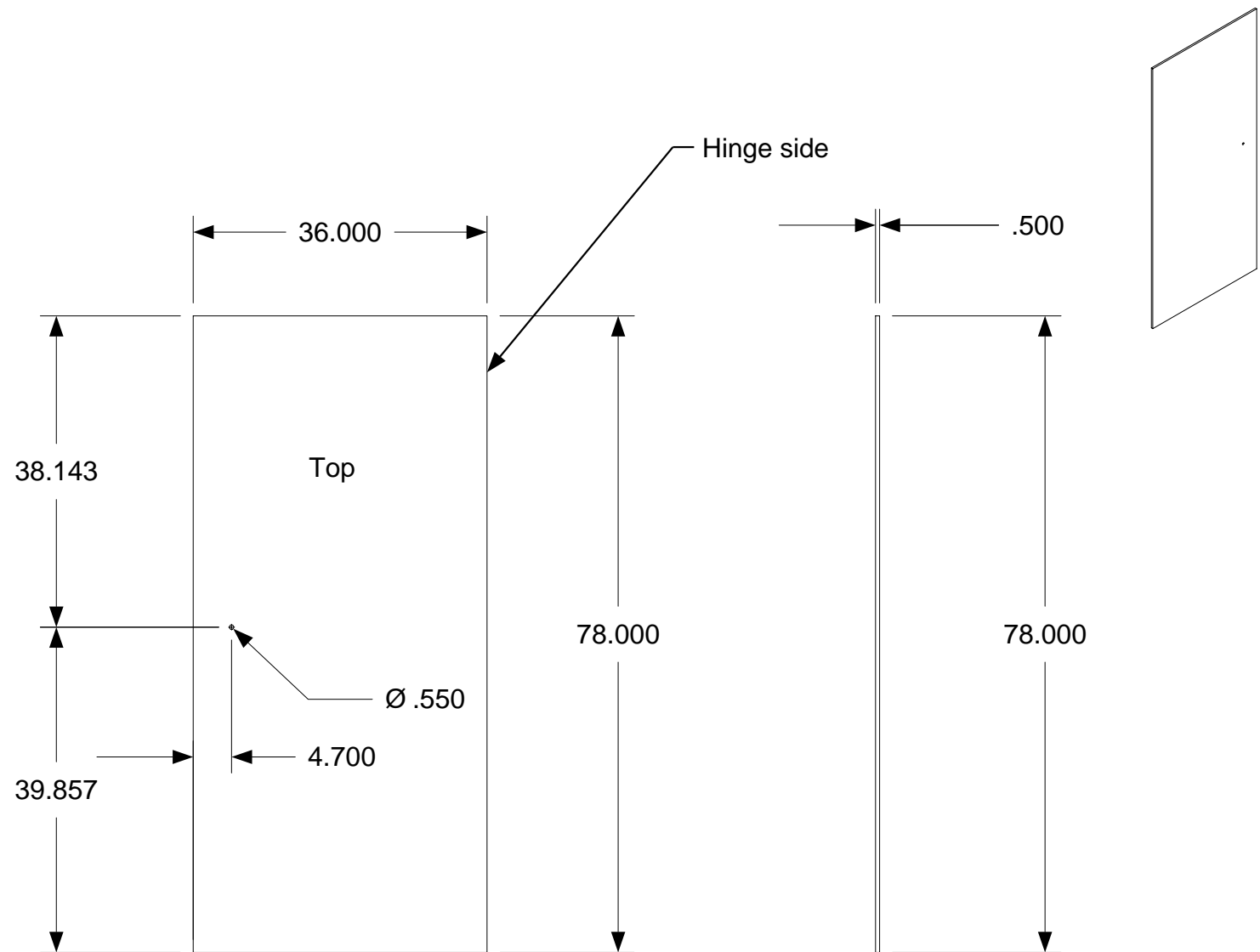




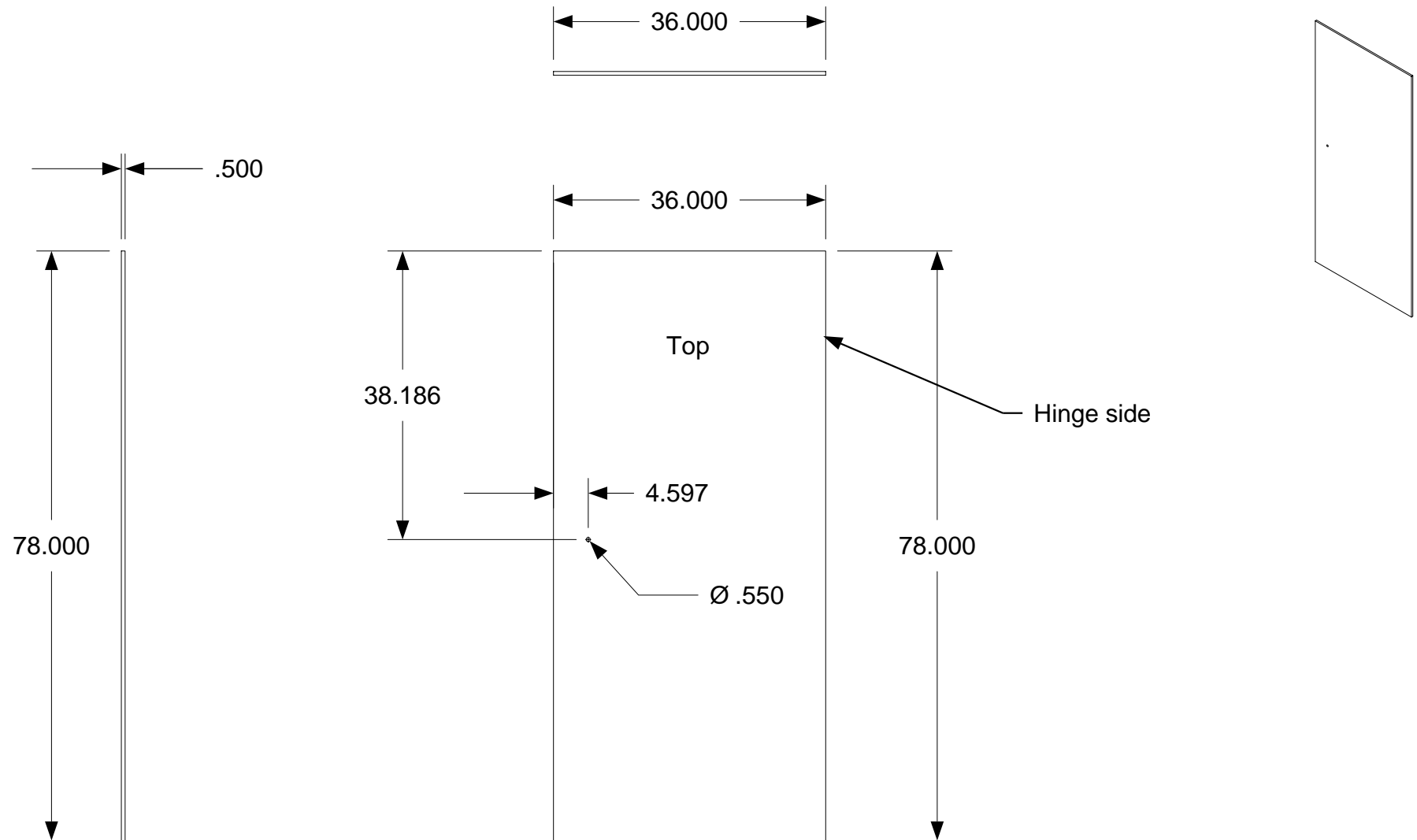
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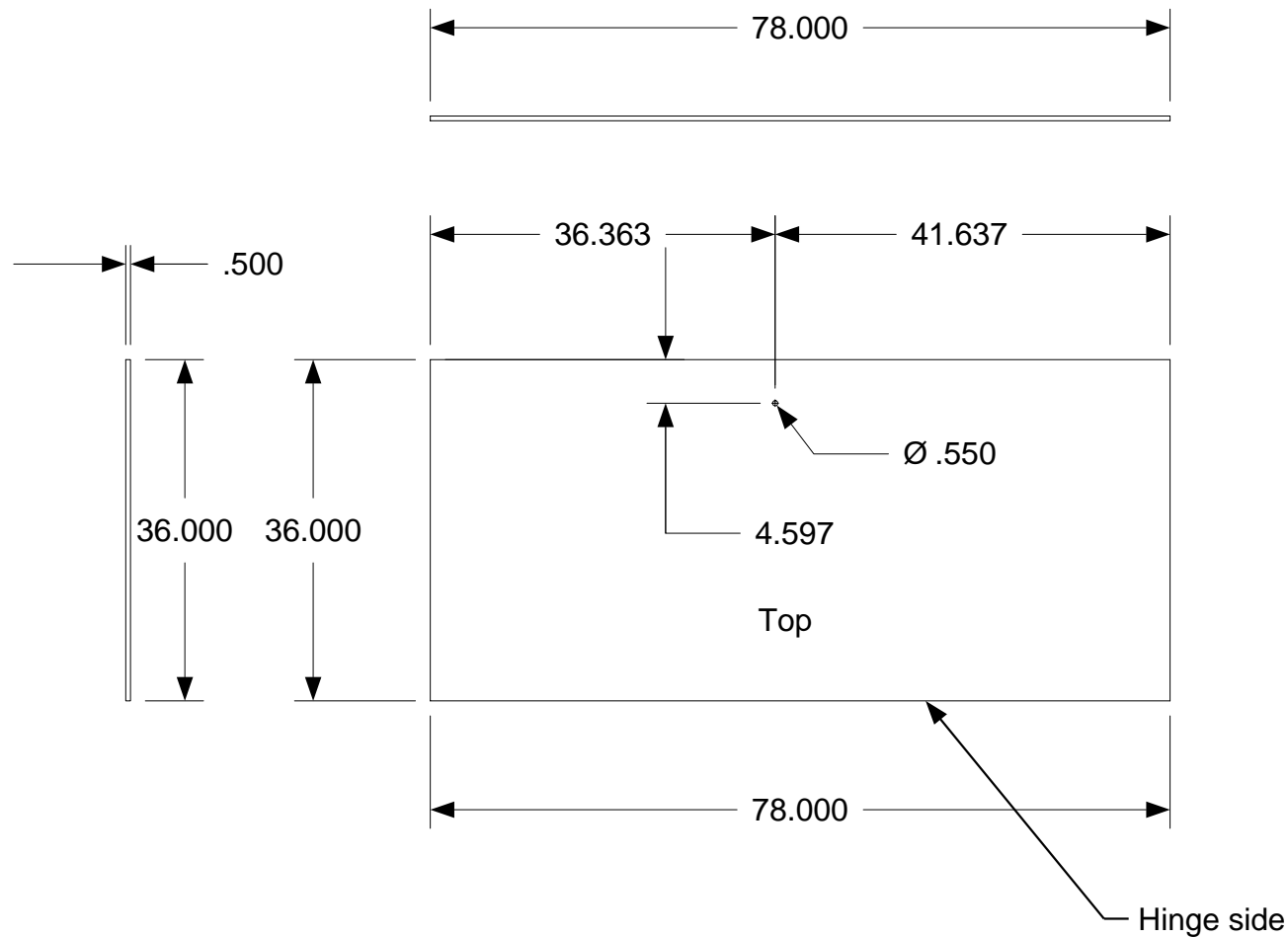
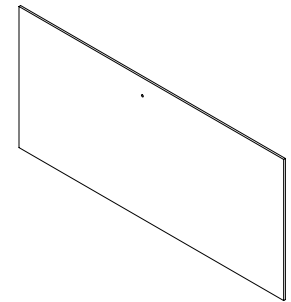
Bed panel 10-1



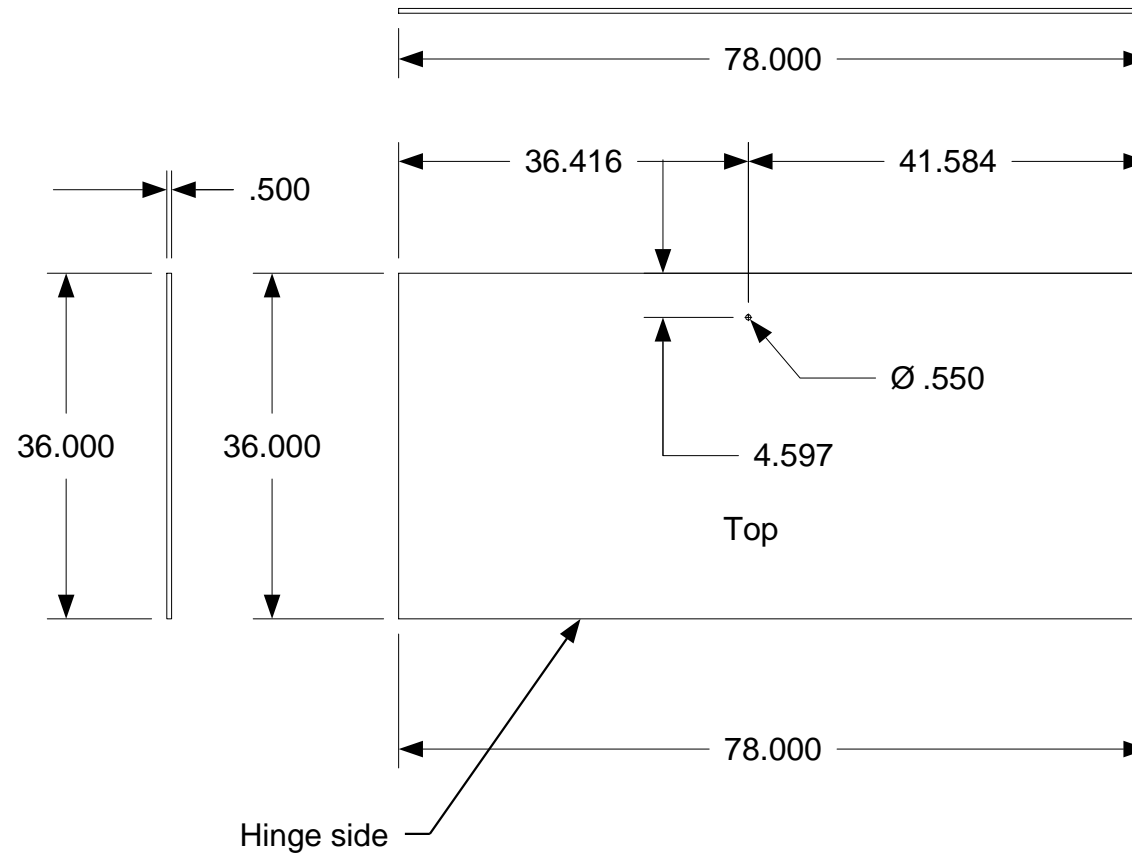
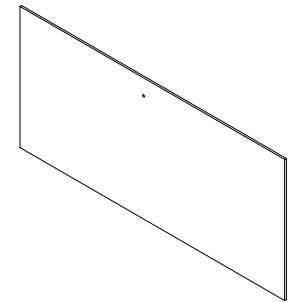
Bed panel 10-2



Bed panel 10-3



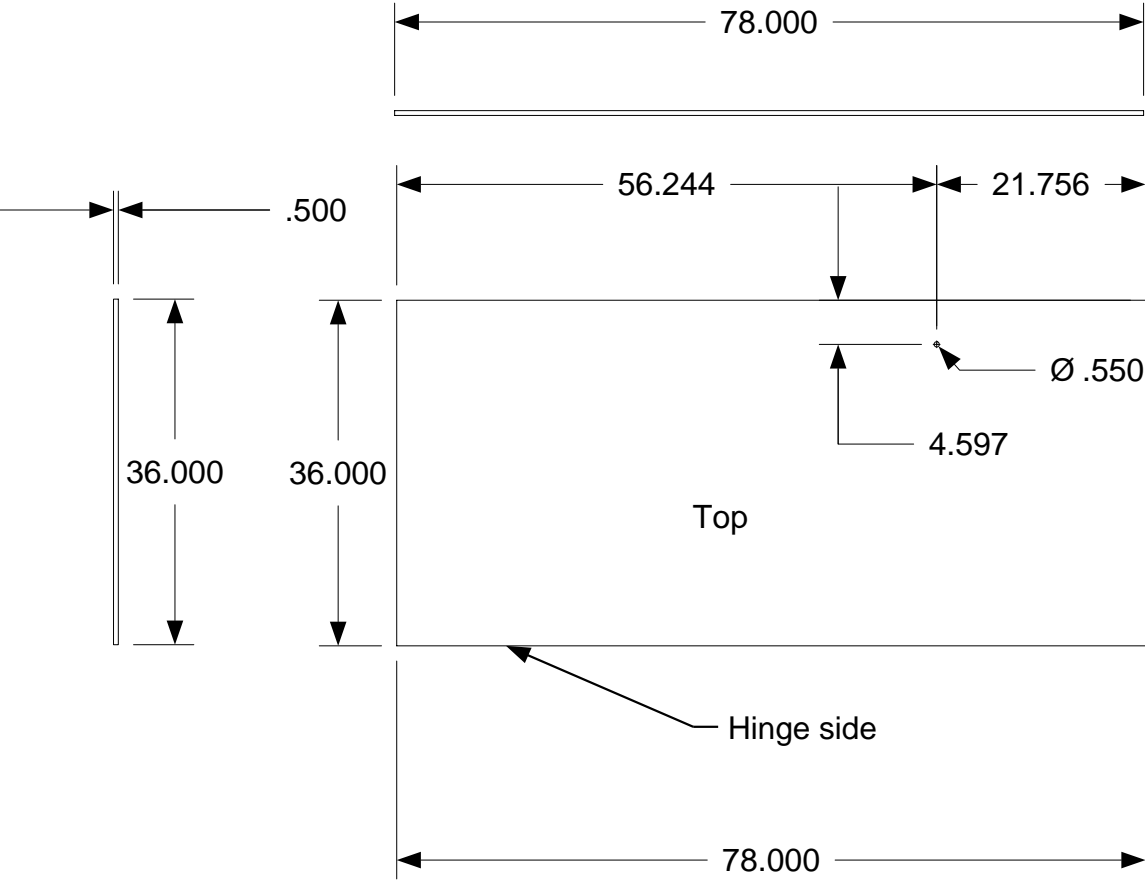
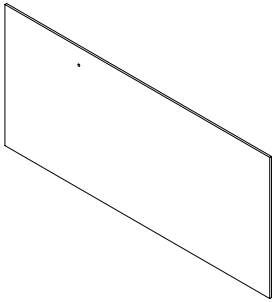
Bed panel 10-4



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Bed panel 10-5



Bed panel 10-6

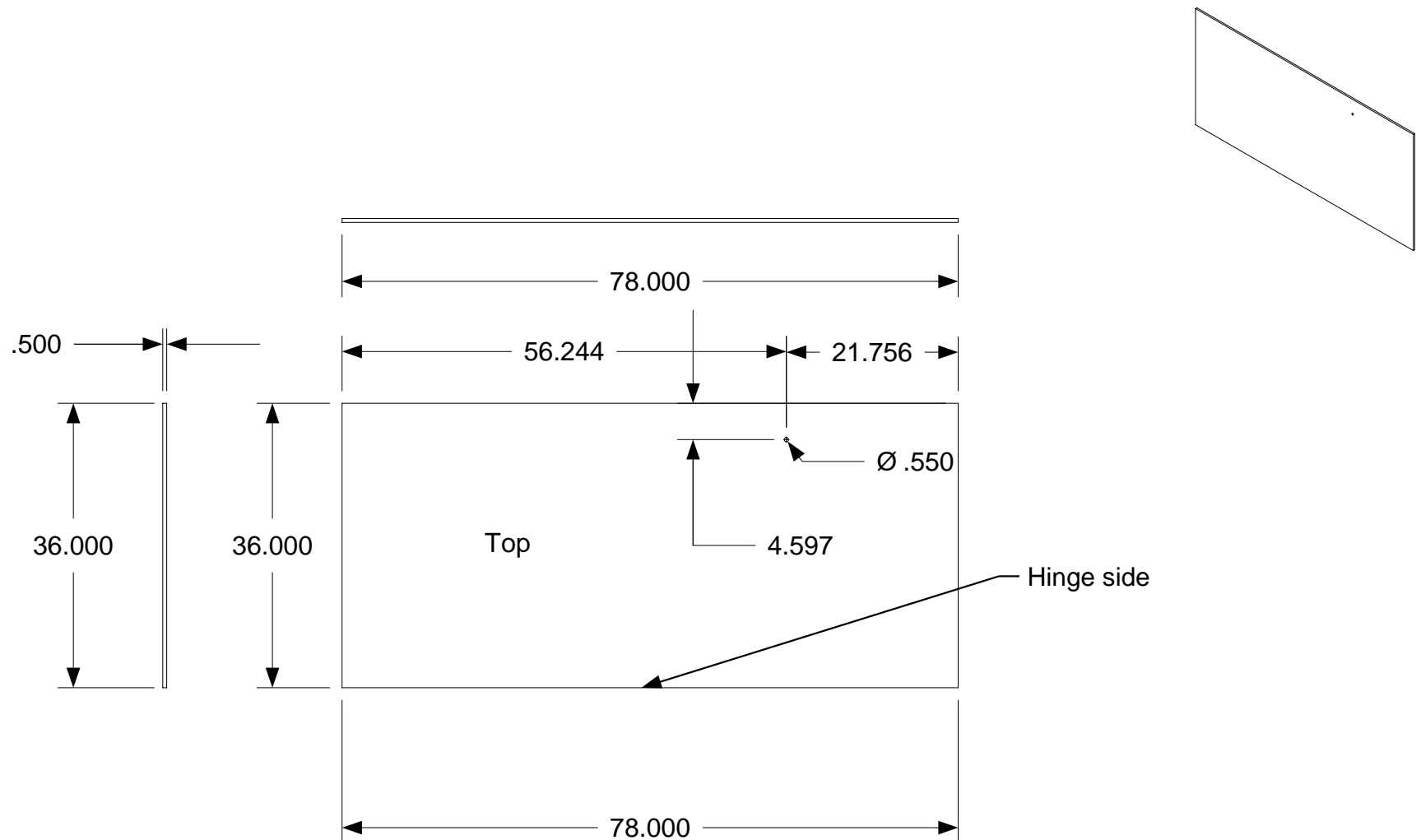
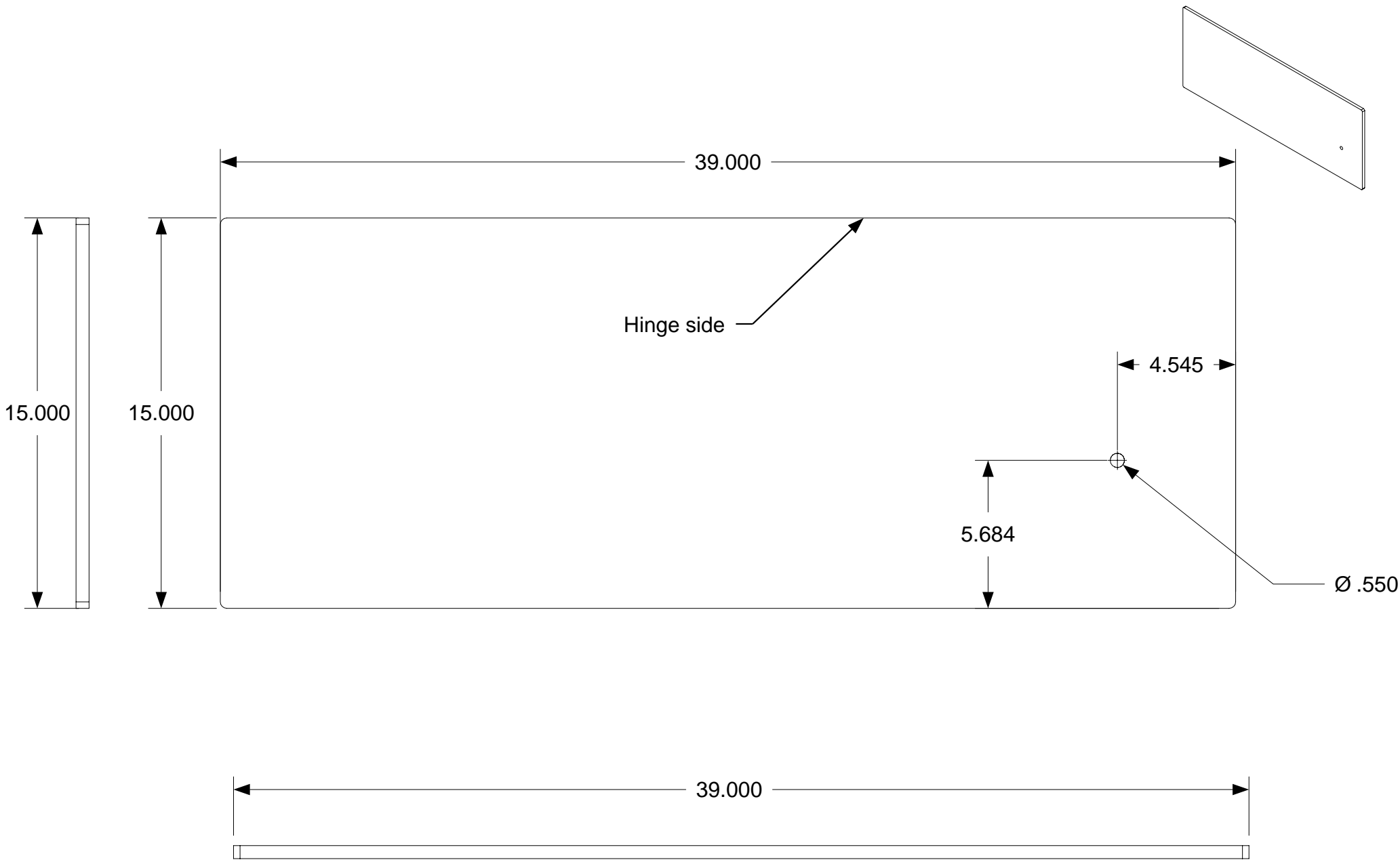


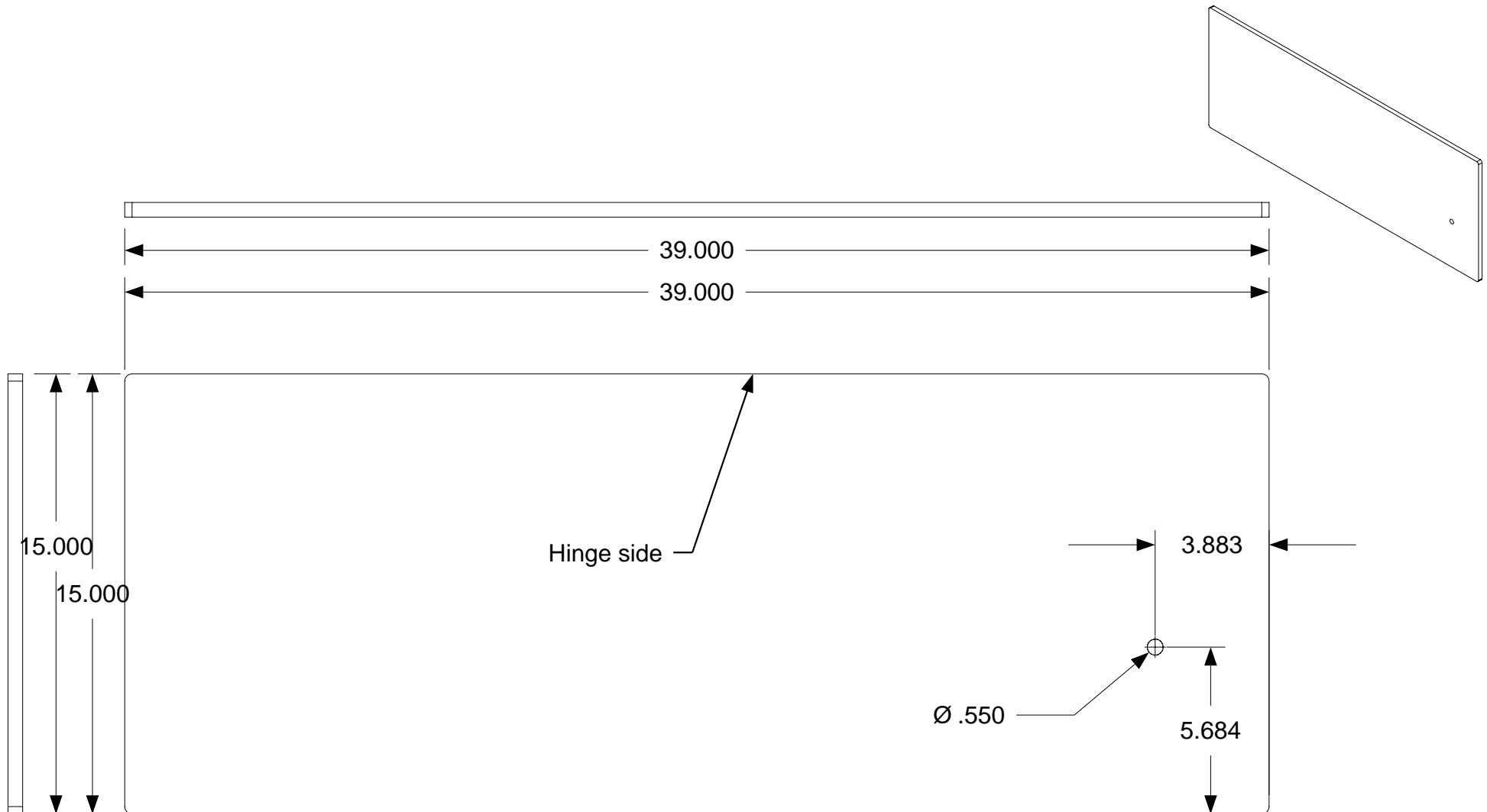
Table 11 and 11-1



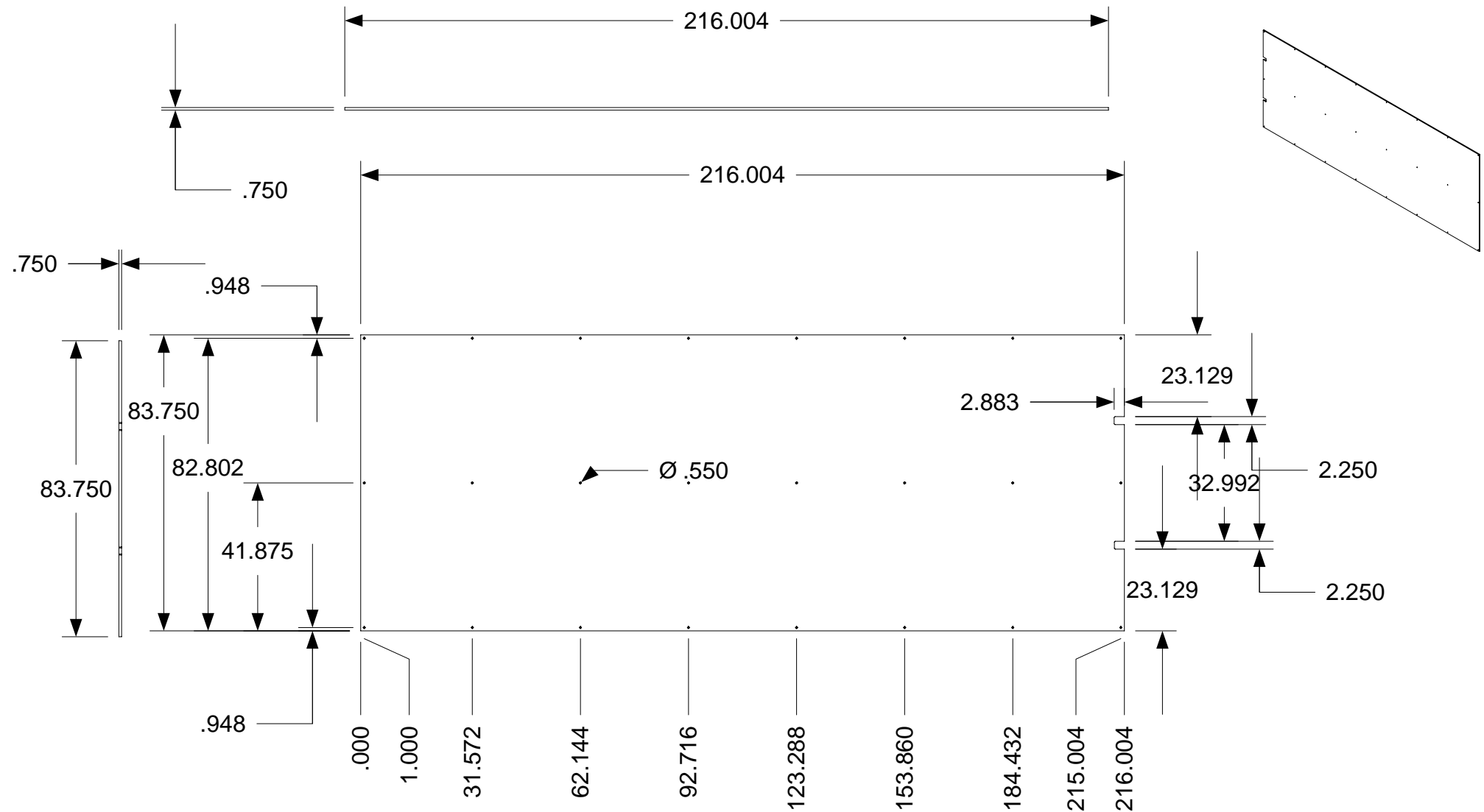
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Table 11-1

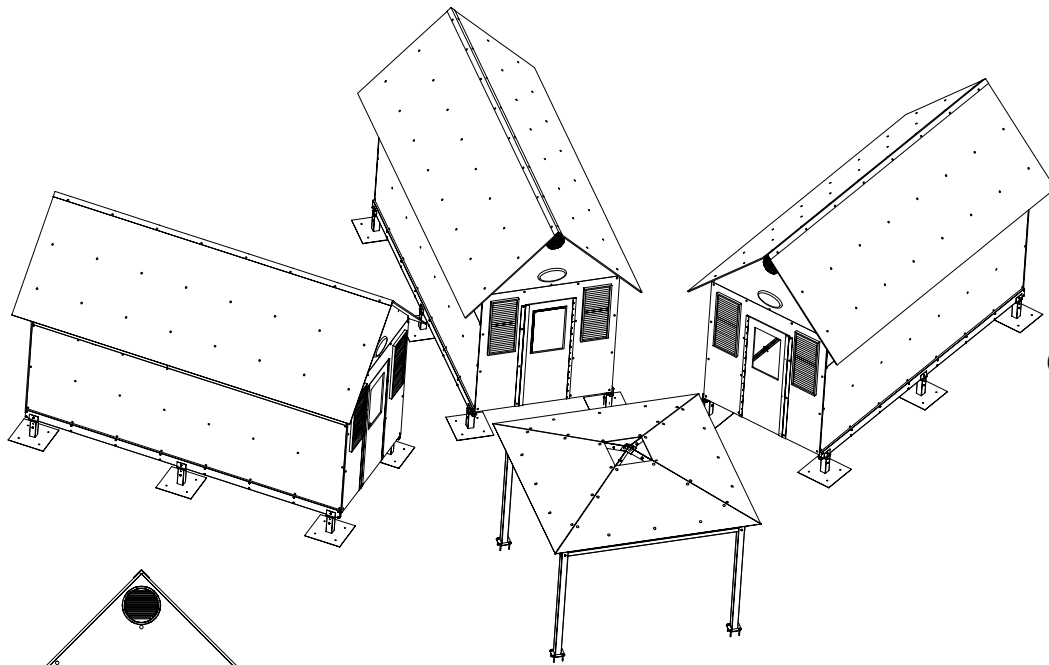


Floor panel 3

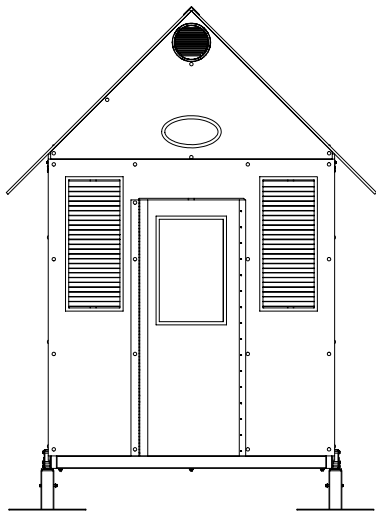


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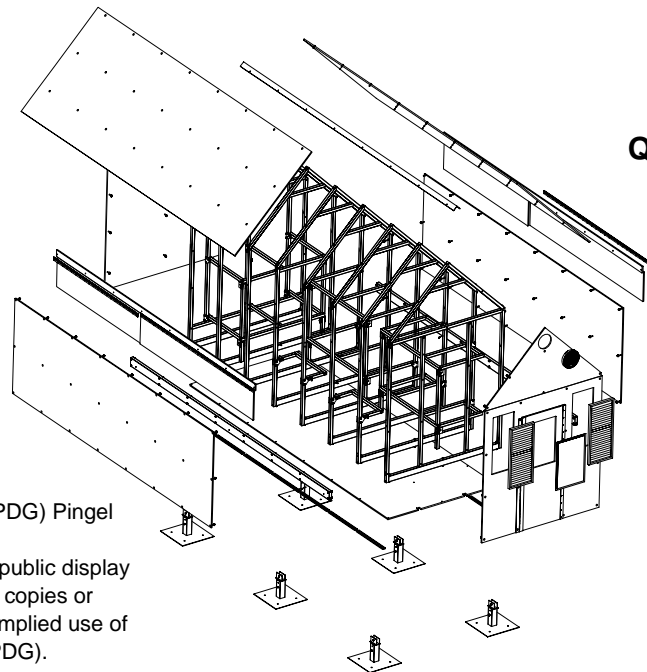


City plan flexible



Permanent or Reusable

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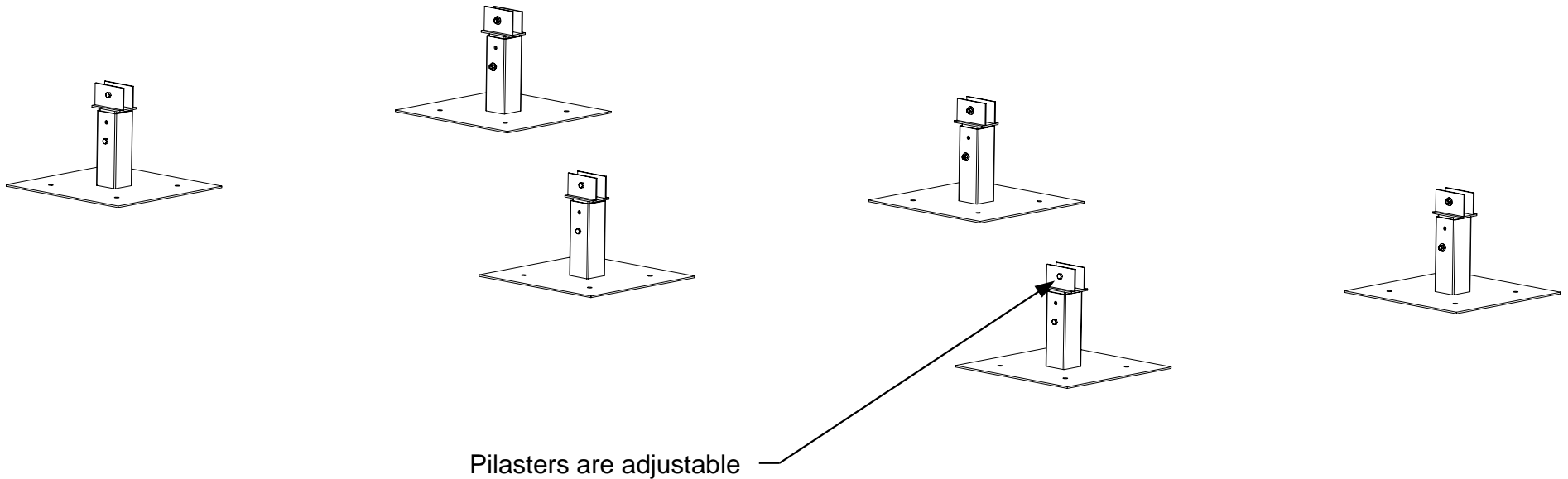
Quick Assembly

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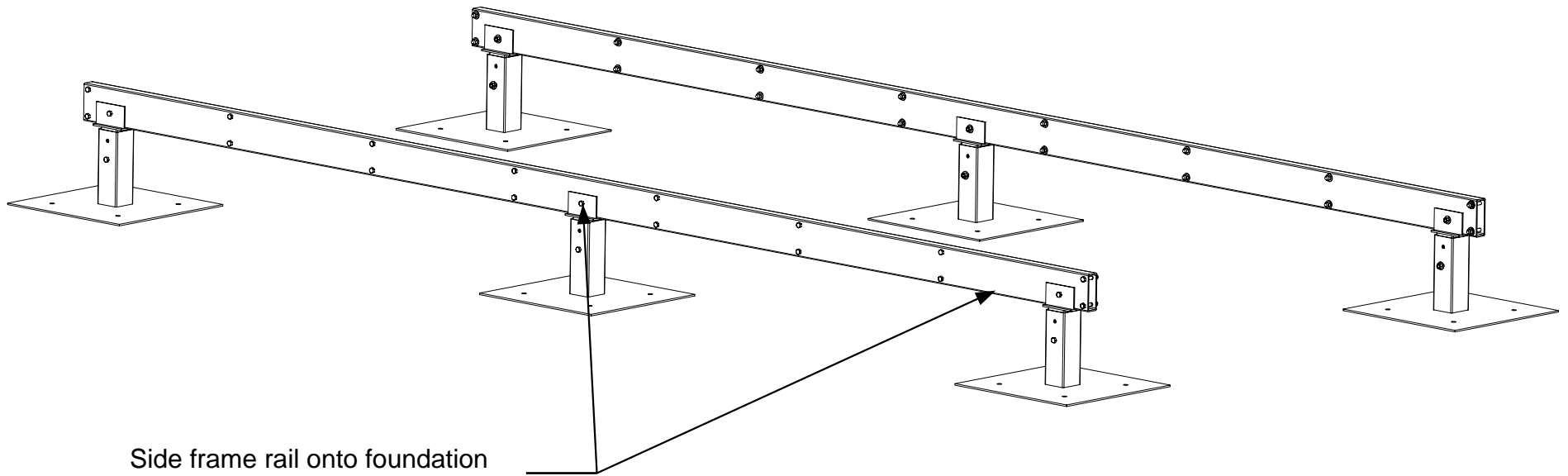
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Assembly Steps Section

Foundation can be placed on the ground or mounted to concrete pilaster



Foundation Frame Rail Assembly Step 2



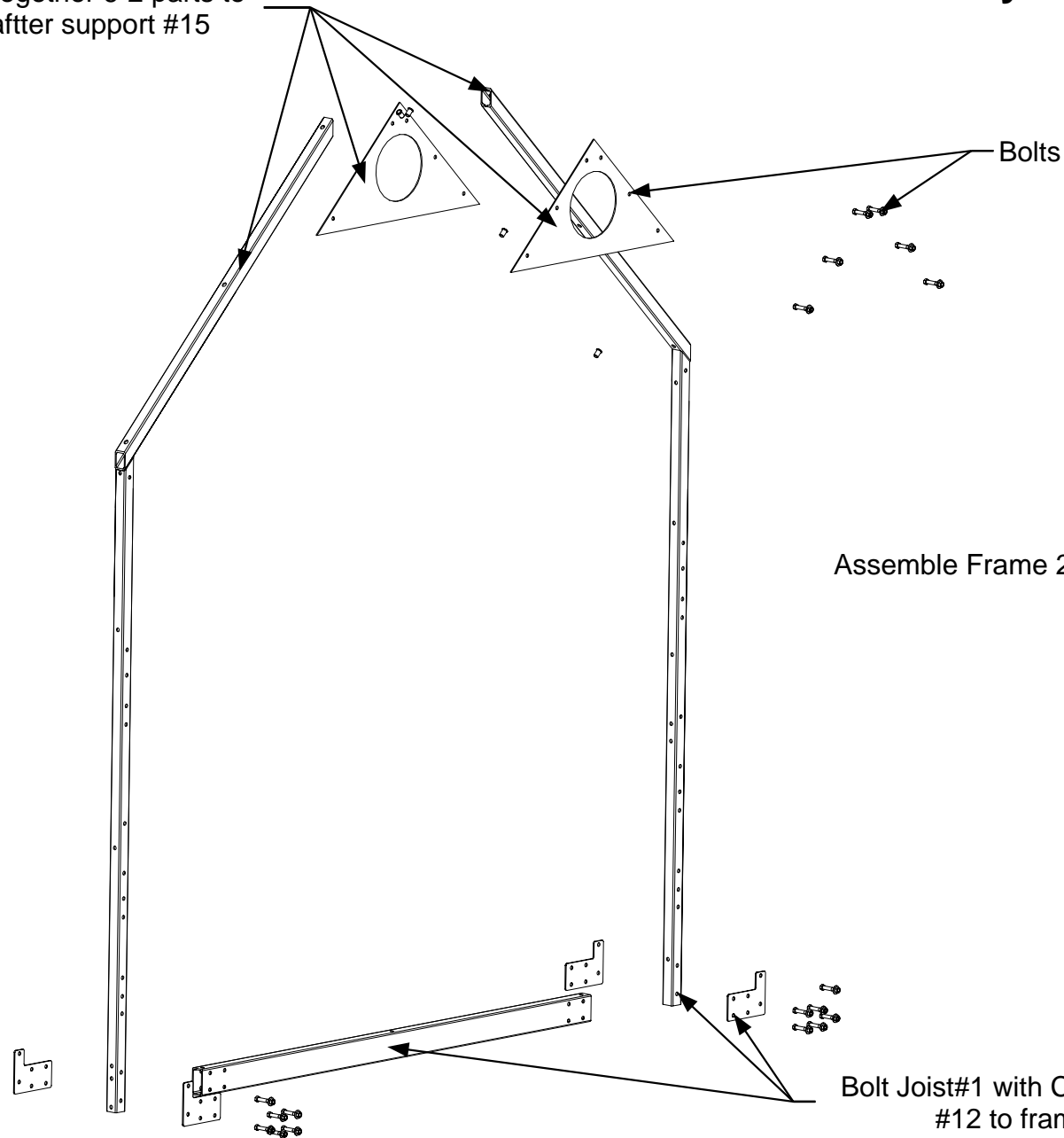
Side frame rail onto foundation
pilasters, place bolt in hole

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Assembly Frame 2-7 Step 3

Bolt together 6-2 parts to
Raftter support #15



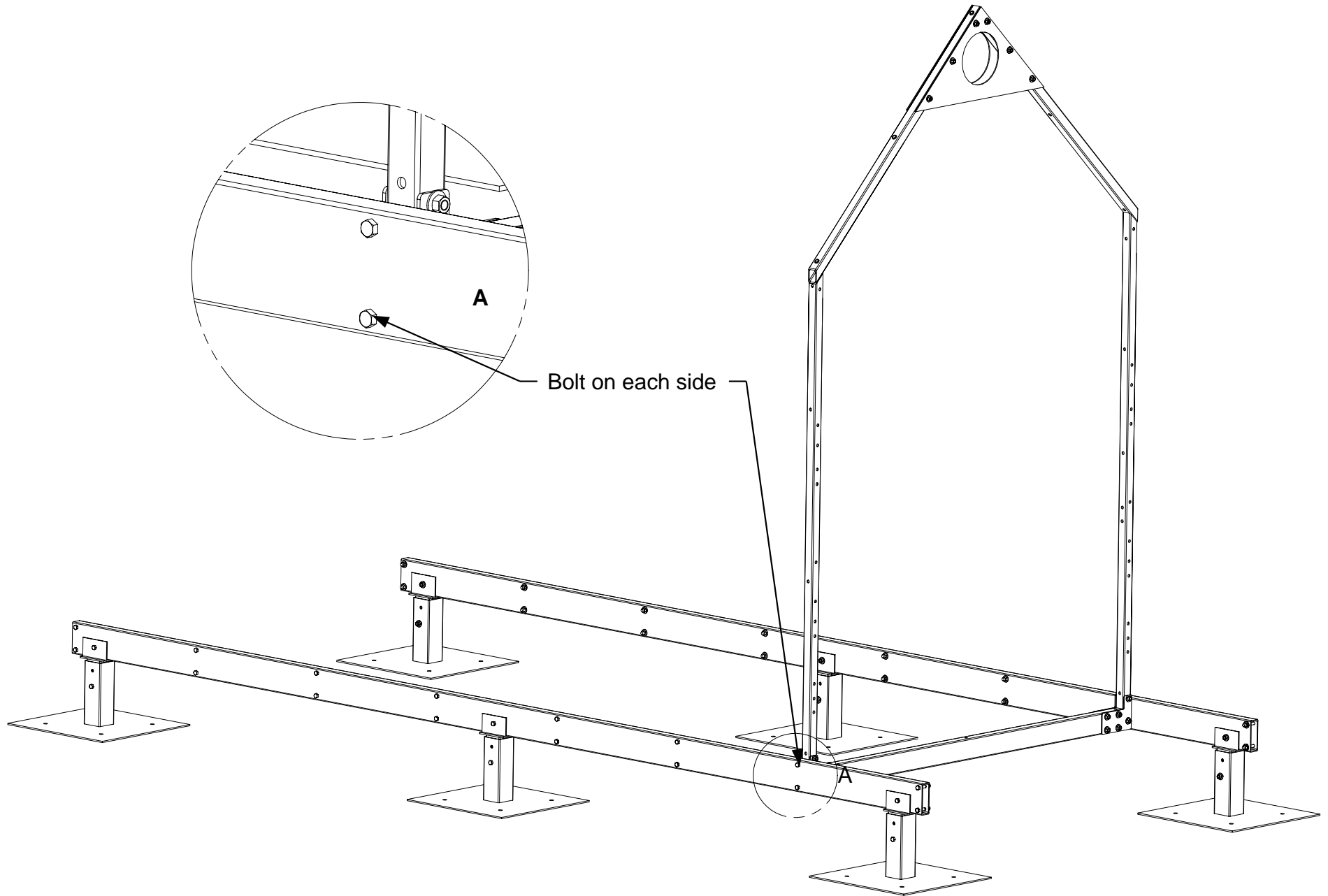
Assemble Frame 2-3-4-5-6-7

Bolt Joist#1 with Corner support
#12 to frame 6-2

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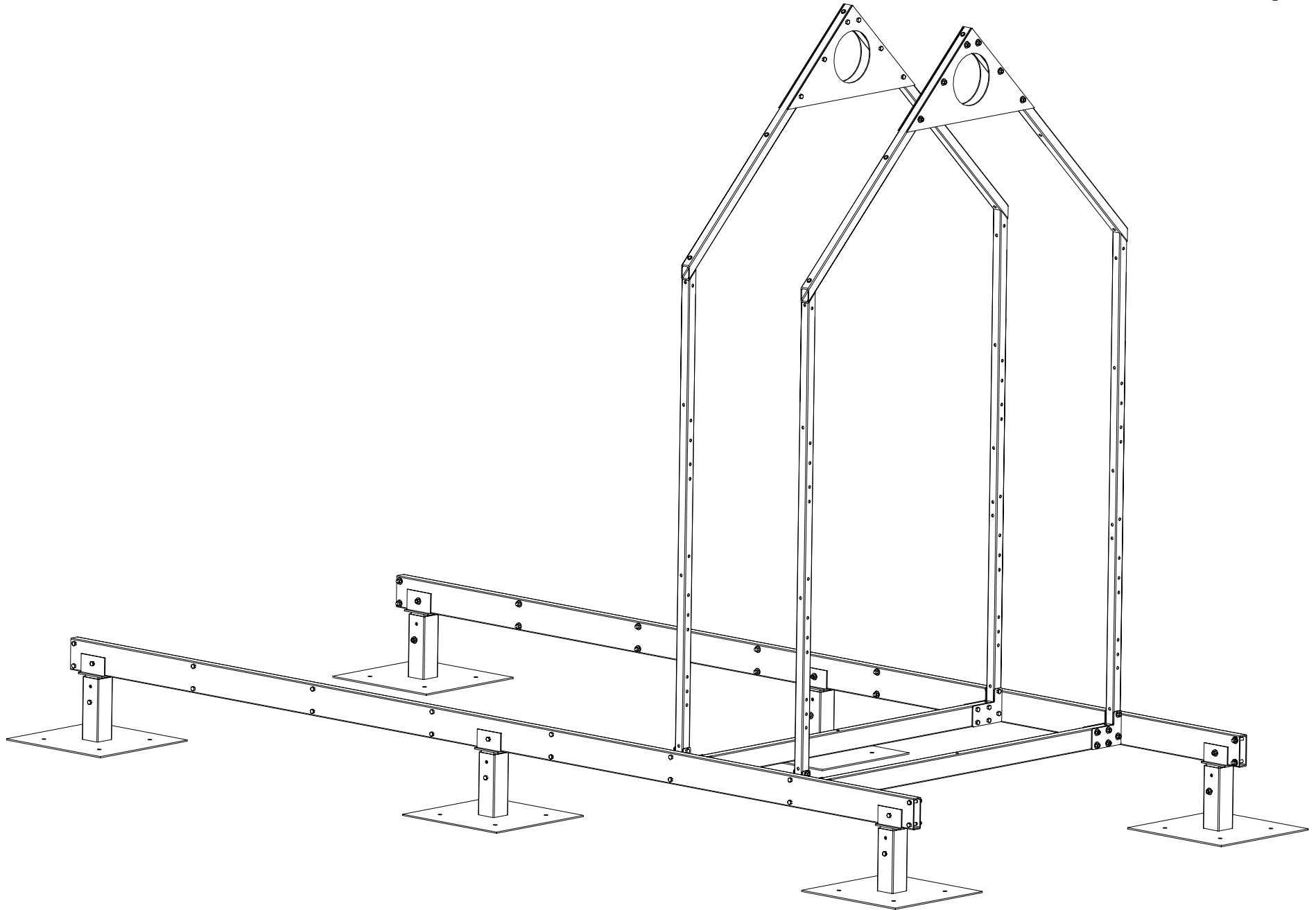
Frame 2 attached to frame rail step 4



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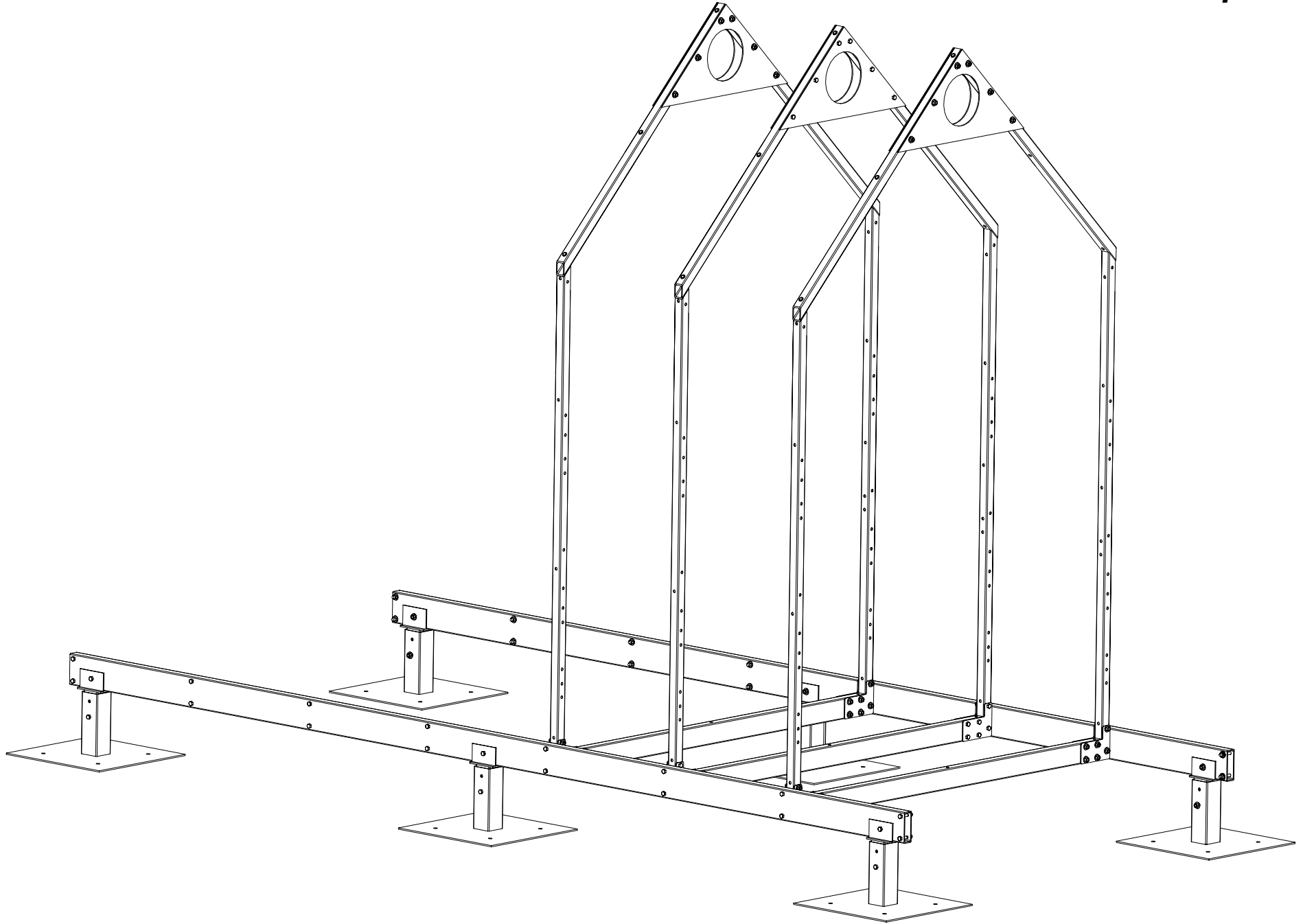
Frame 3 attached to frame rail step 5



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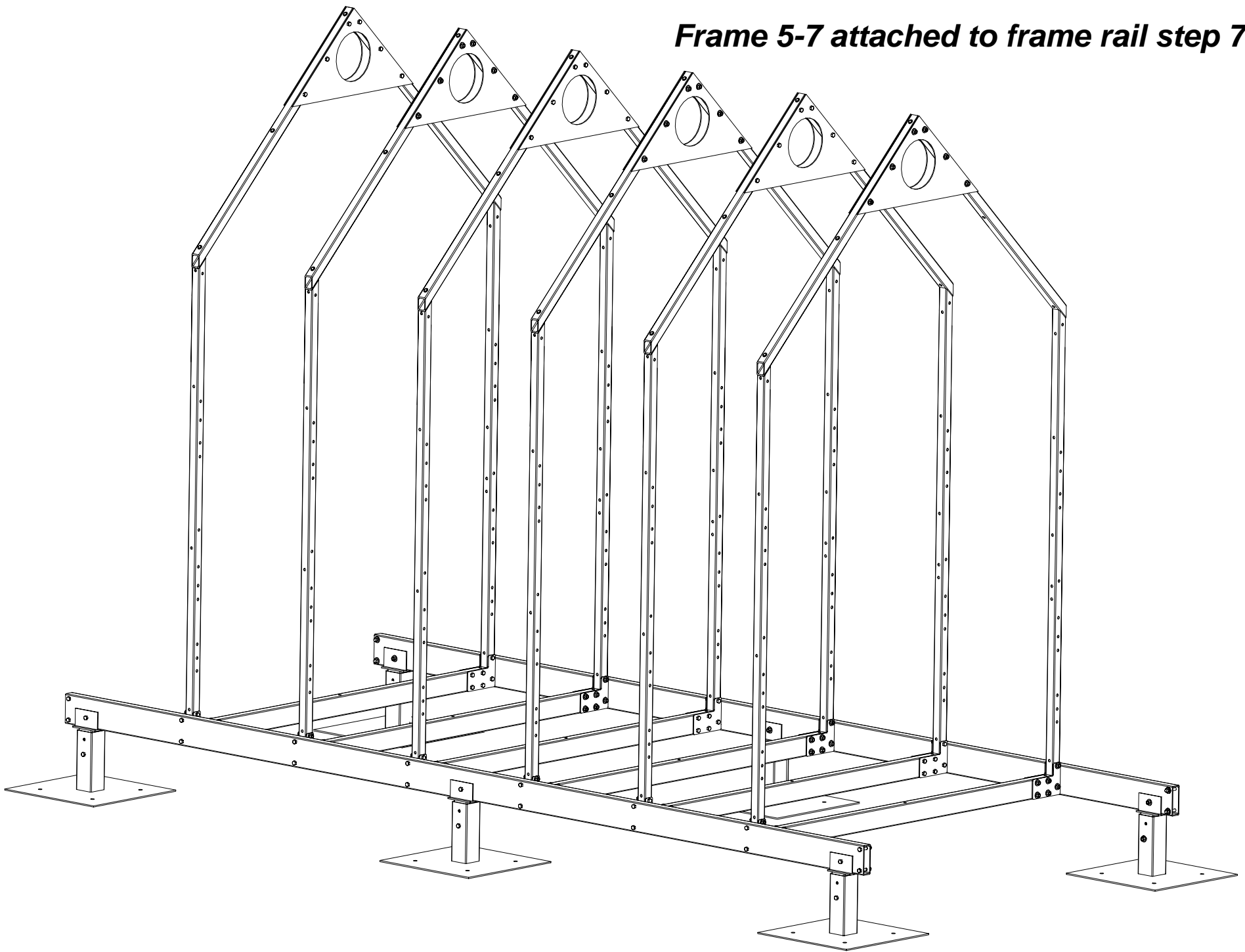
Frame 4 attached to frame rail step 6



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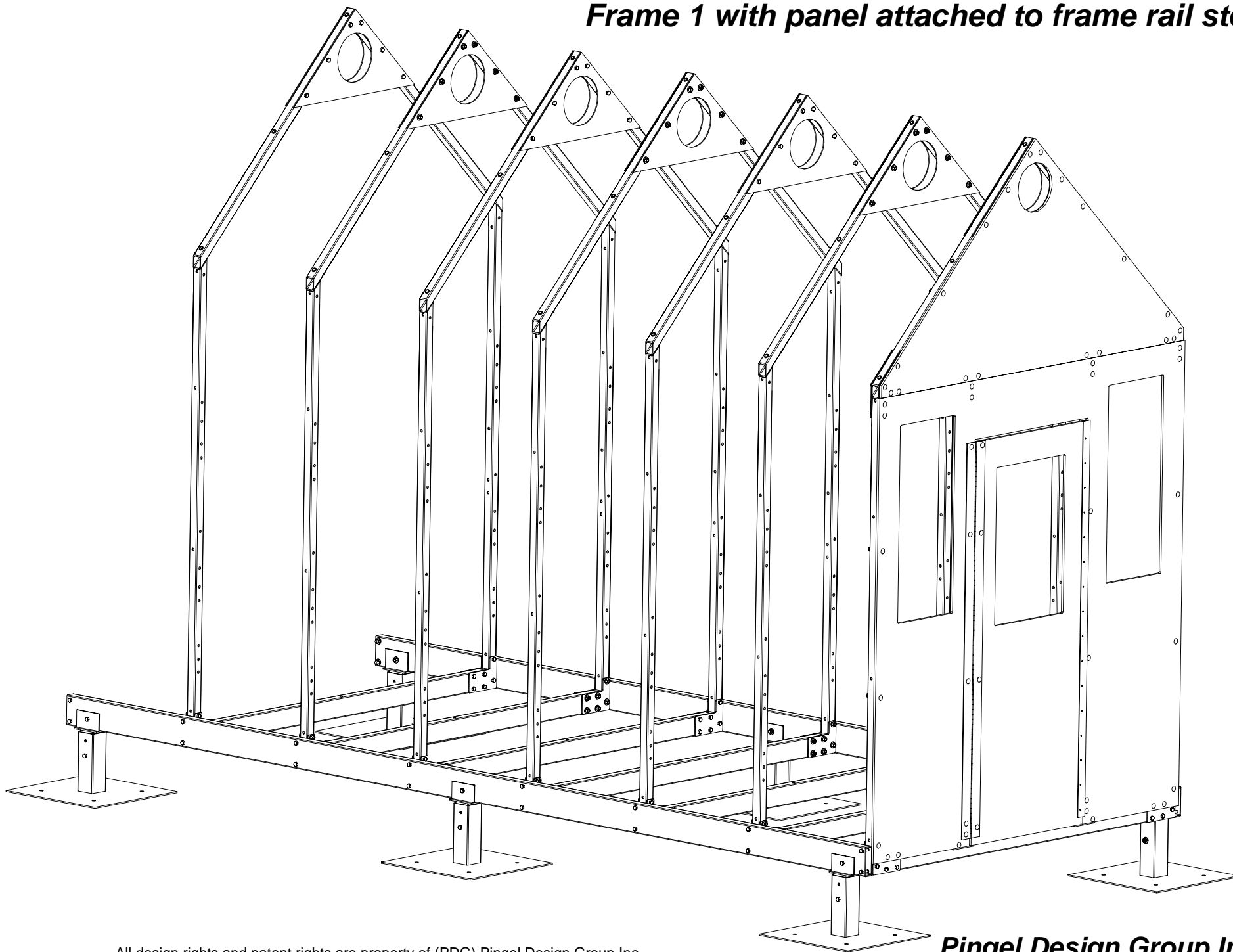
Frame 5-7 attached to frame rail step 7



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Frame 1 with panel attached to frame rail step 8



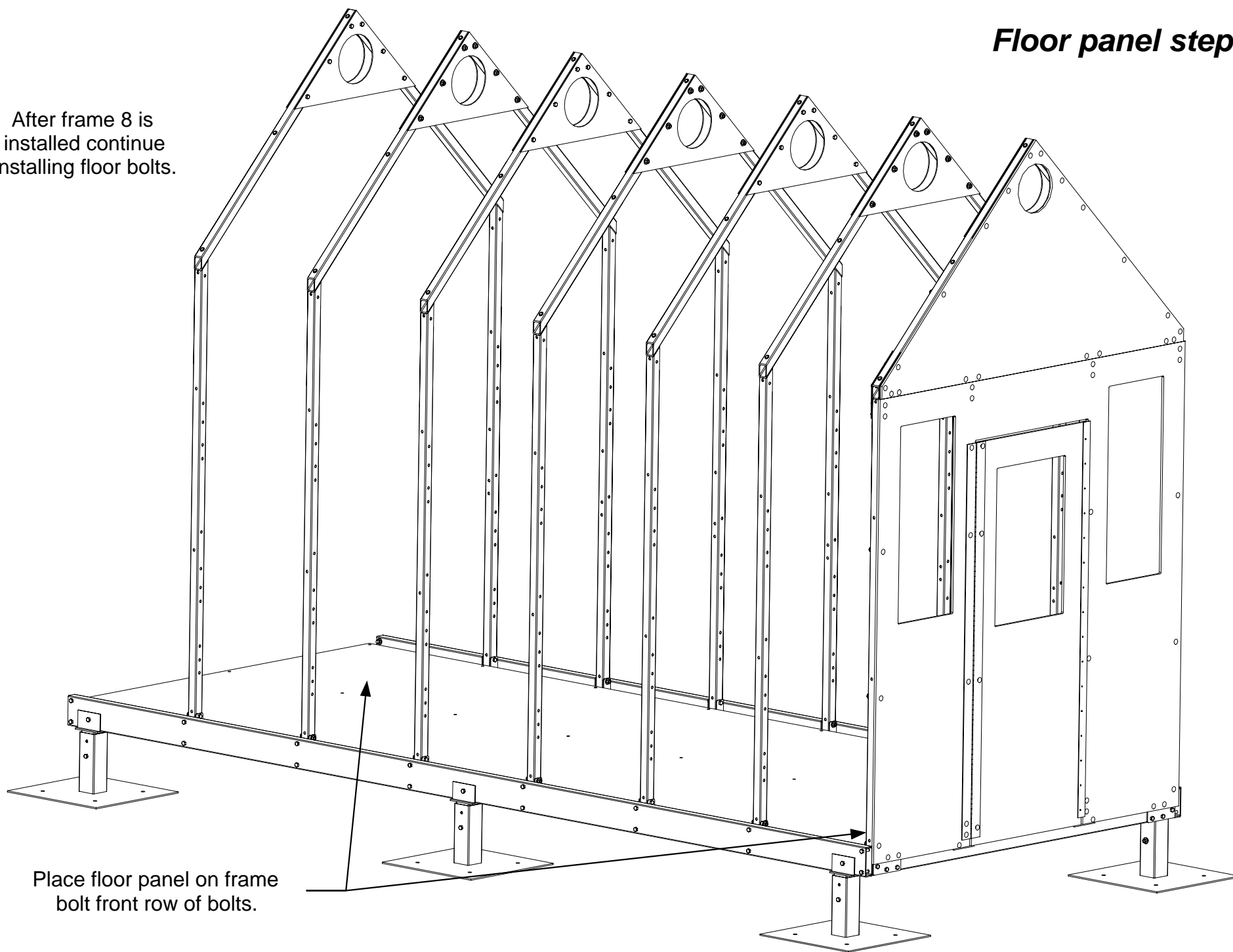
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Floor panel step 9

After frame 8 is installed continue installing floor bolts.

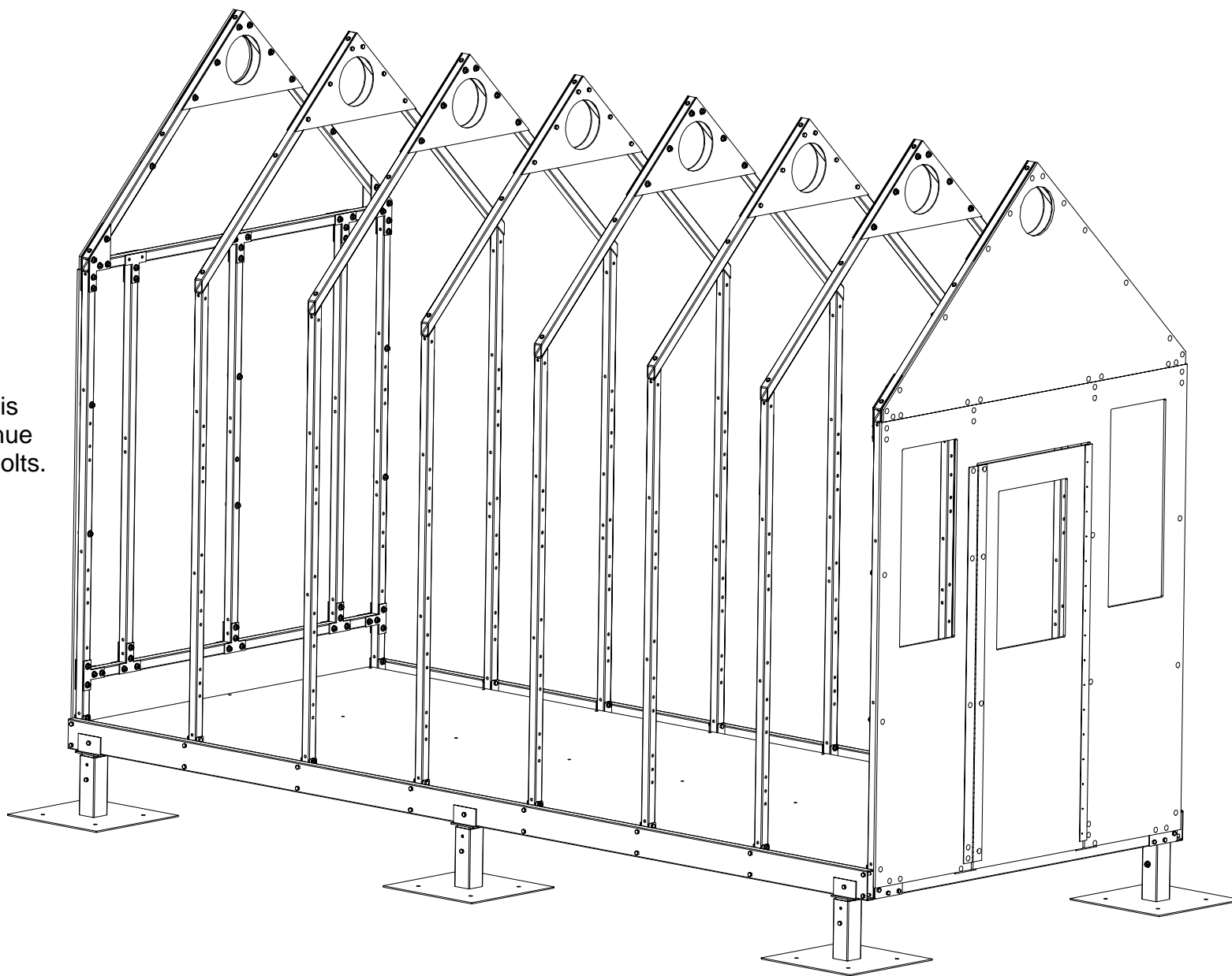


Place floor panel on frame
bolt front row of bolts.

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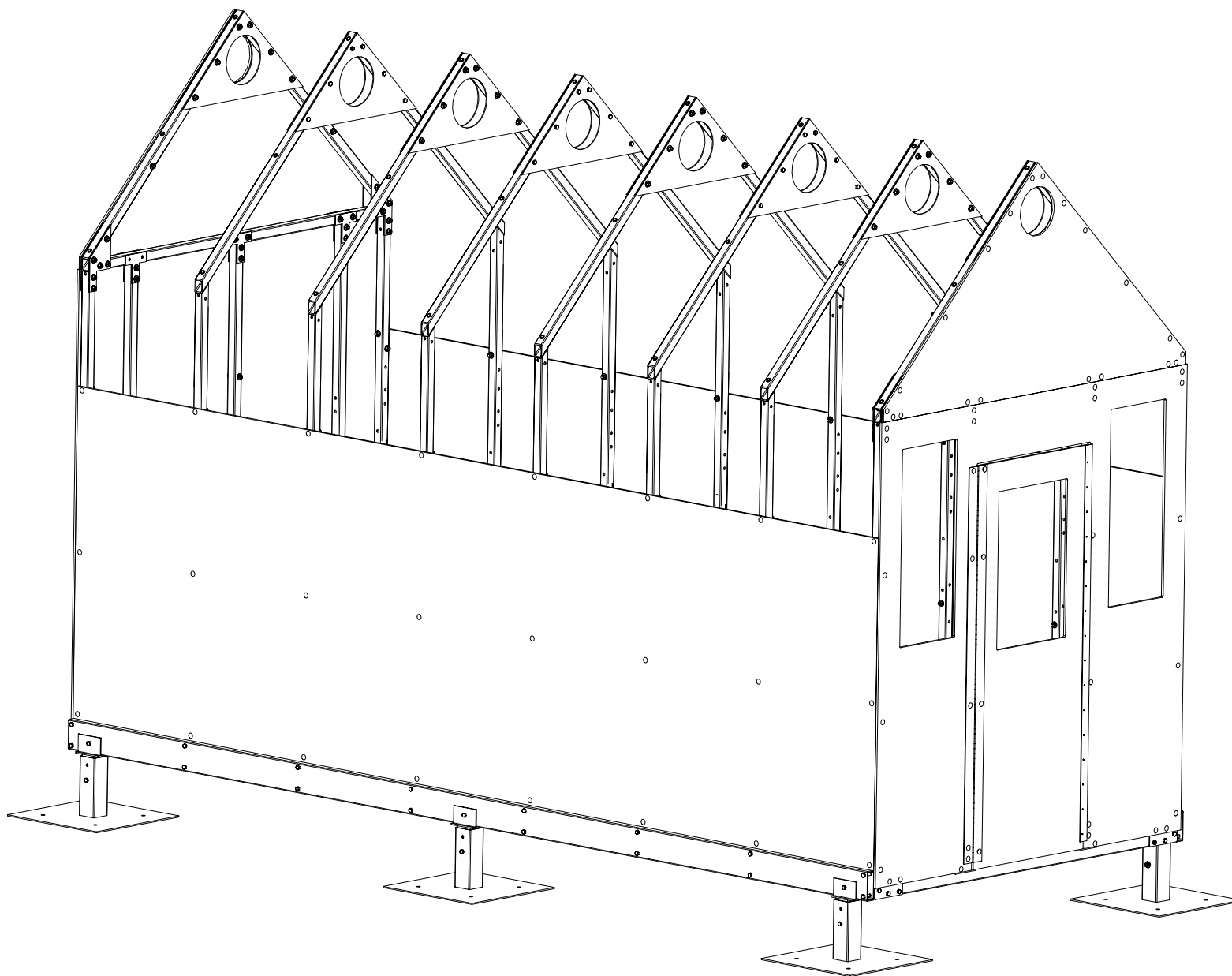
After frame 8 is installed continue installing floor bolts.



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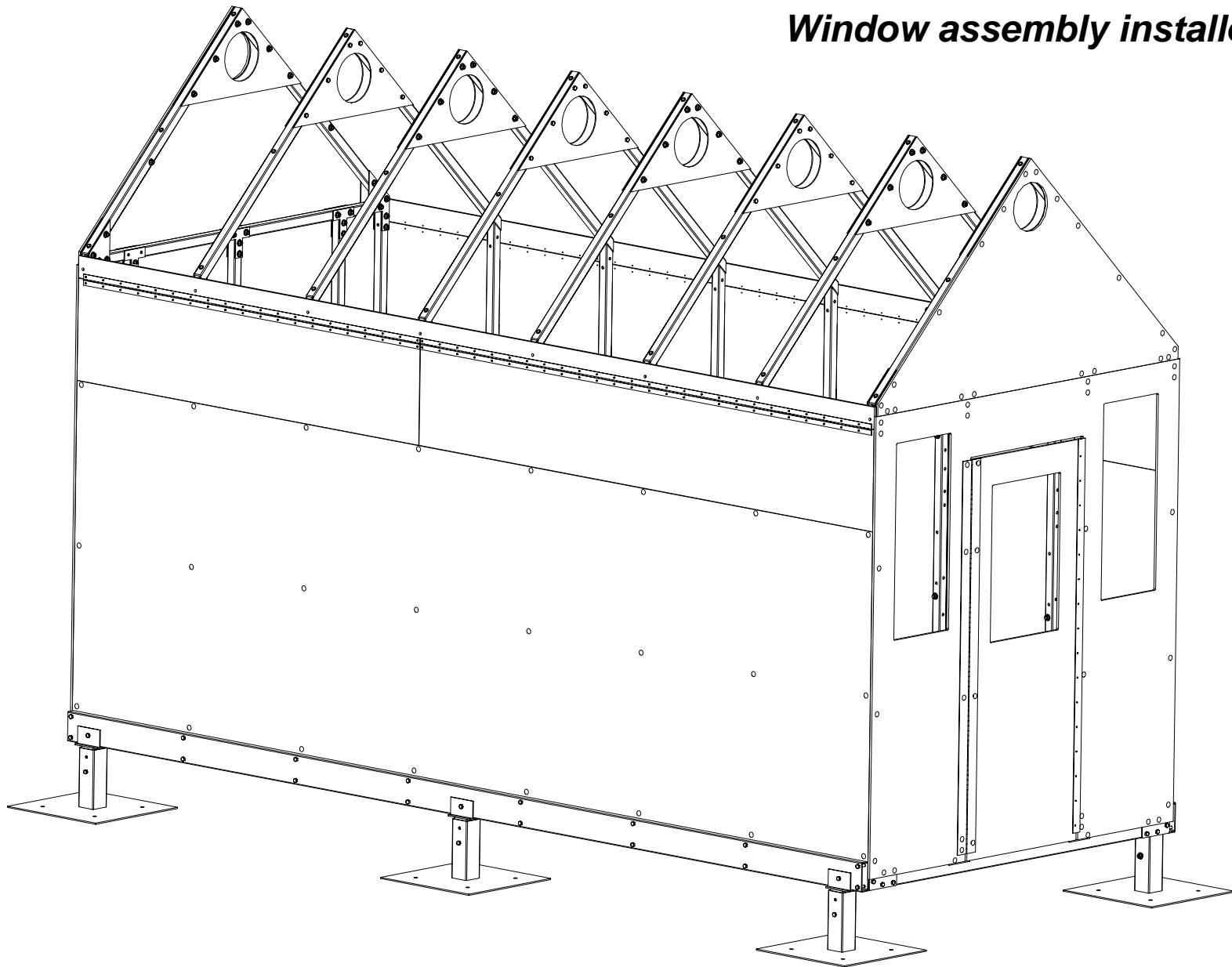
Side panels step 11



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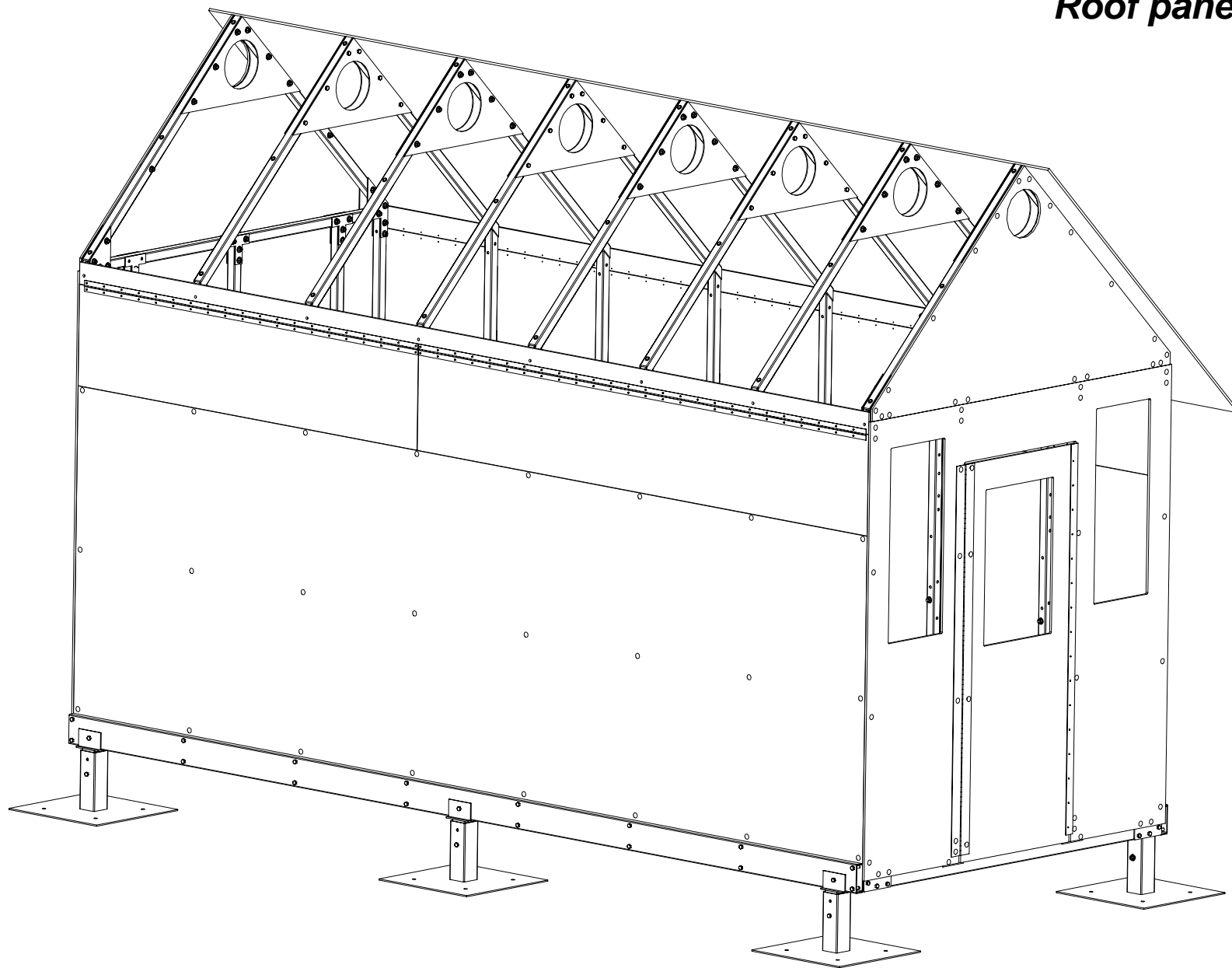
Window assembly installed step 12



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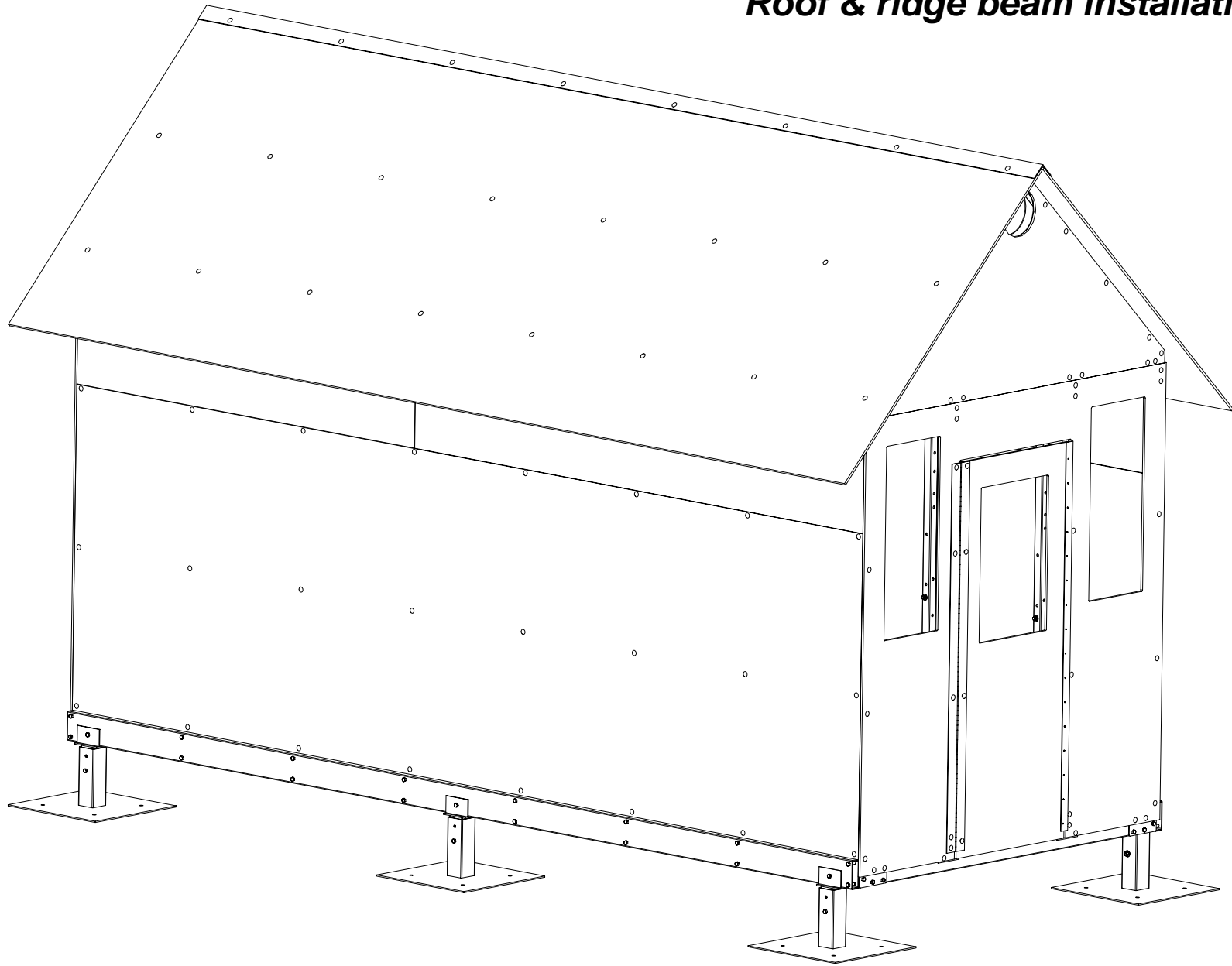
Roof panel step 13



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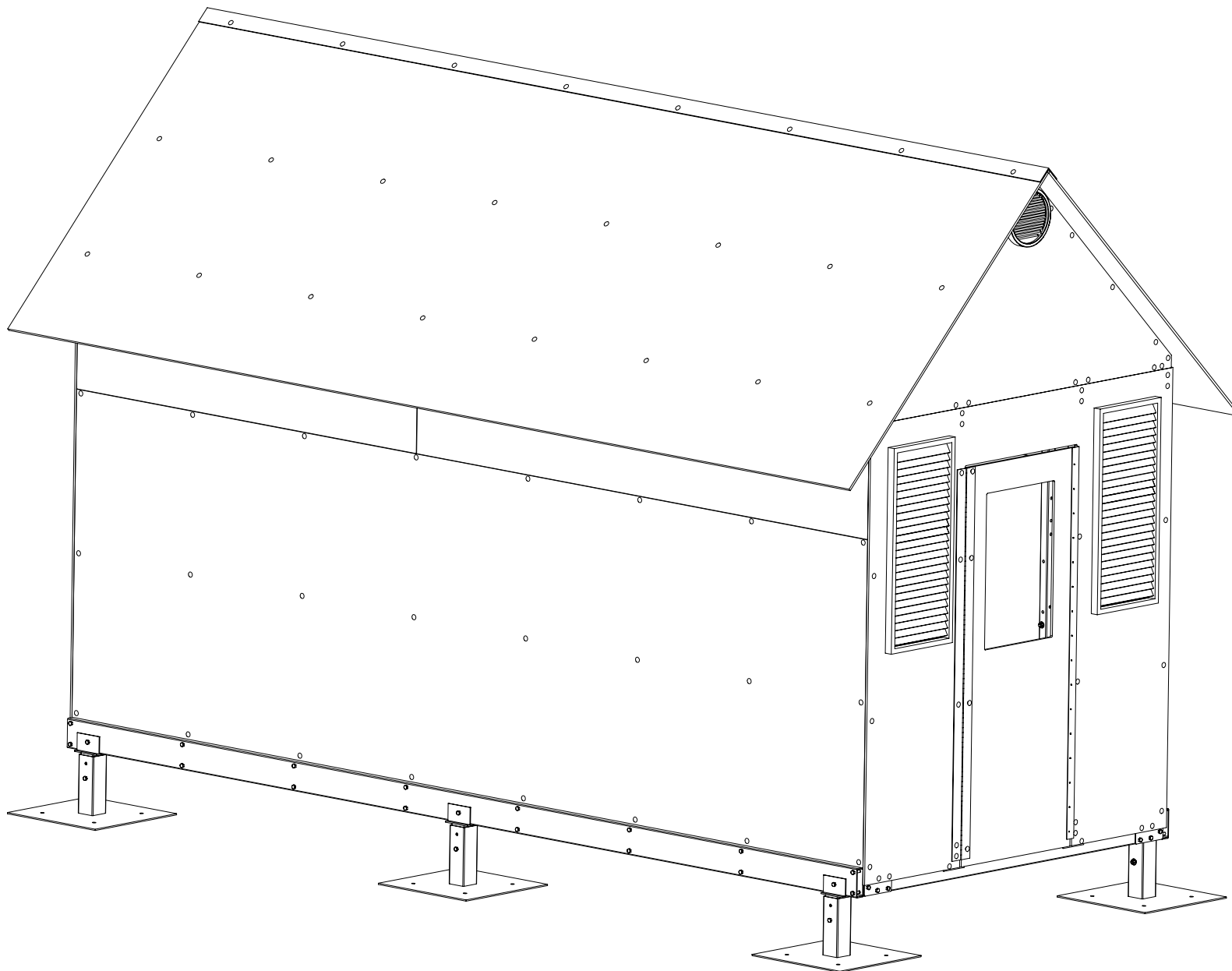
Roof & ridge beam installation step 14



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Vent installation 15



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