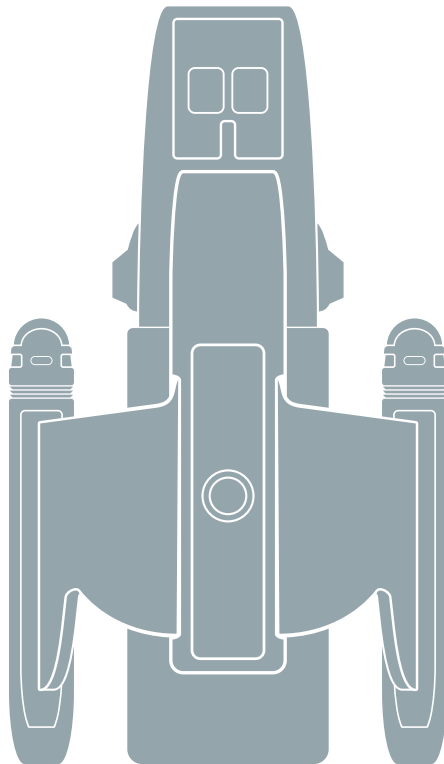


THE RUNABOUT PROJECT

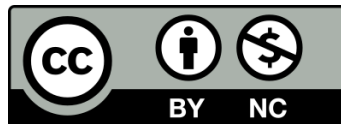


Version 1.0

June 2019

REDGENERAL

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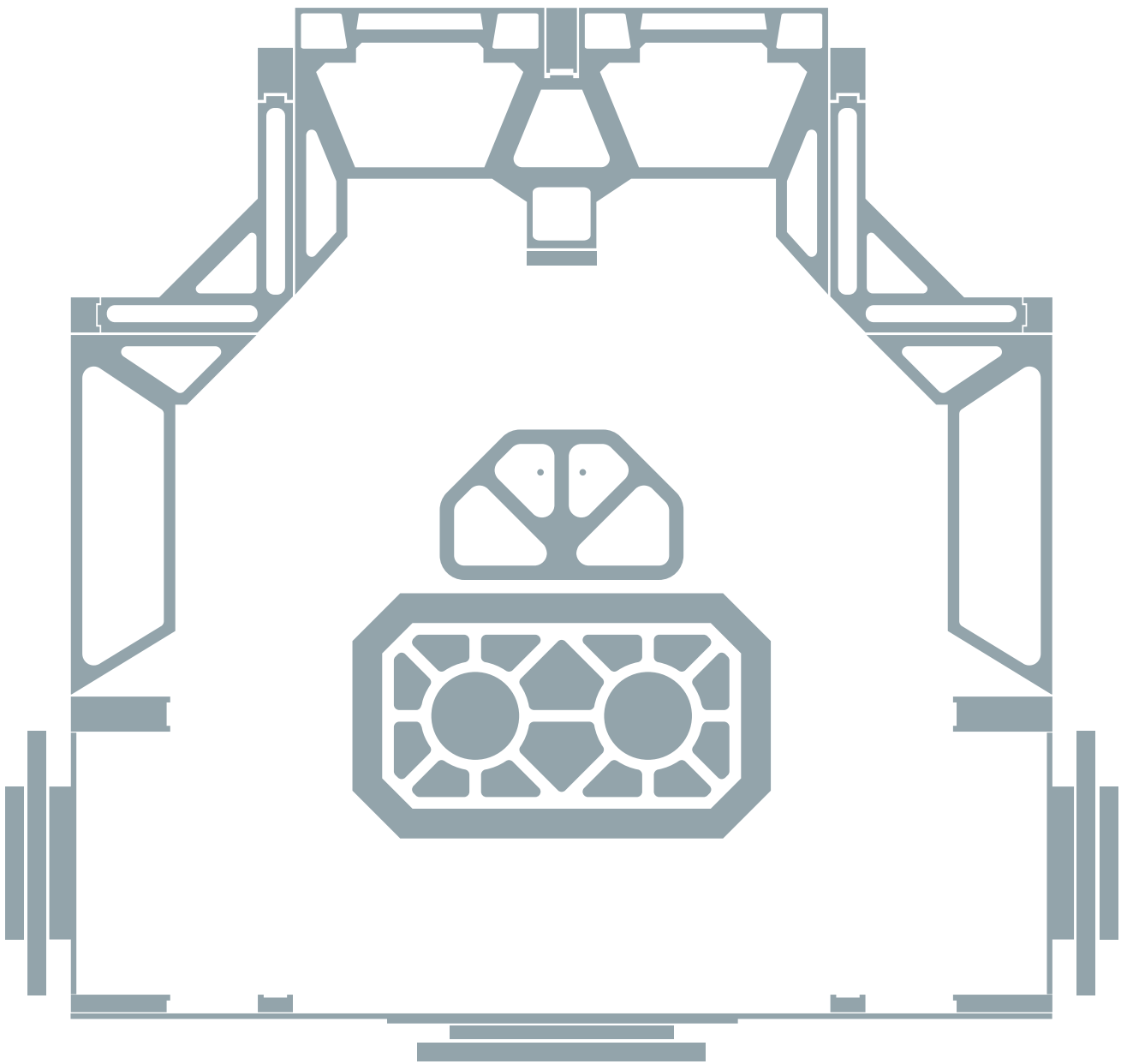
With thanks to

Lt. Washburn for research into Runabout seats, feedback, proof-reading and suggested improvements.

Tadeo D'Oria for 3D modelling the Runabout car seats. <https://tadeodoria.com/>

Ex Astris Scientia - Jörg Hillebrand and Bernd Schneider
For research into the evolution of the Runabout interior over the seasons.
http://www.ex-astris-scientia.org/inconsistencies/runabout_interior.htm

INITIAL CONFIGURATION



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Initial configuration
(DS9 1x01 - Emissary)

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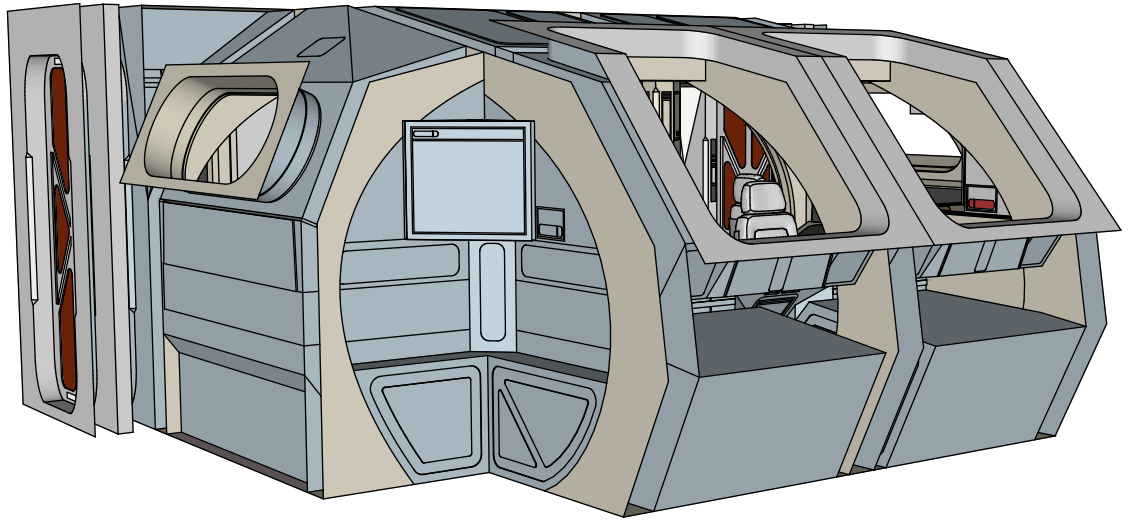
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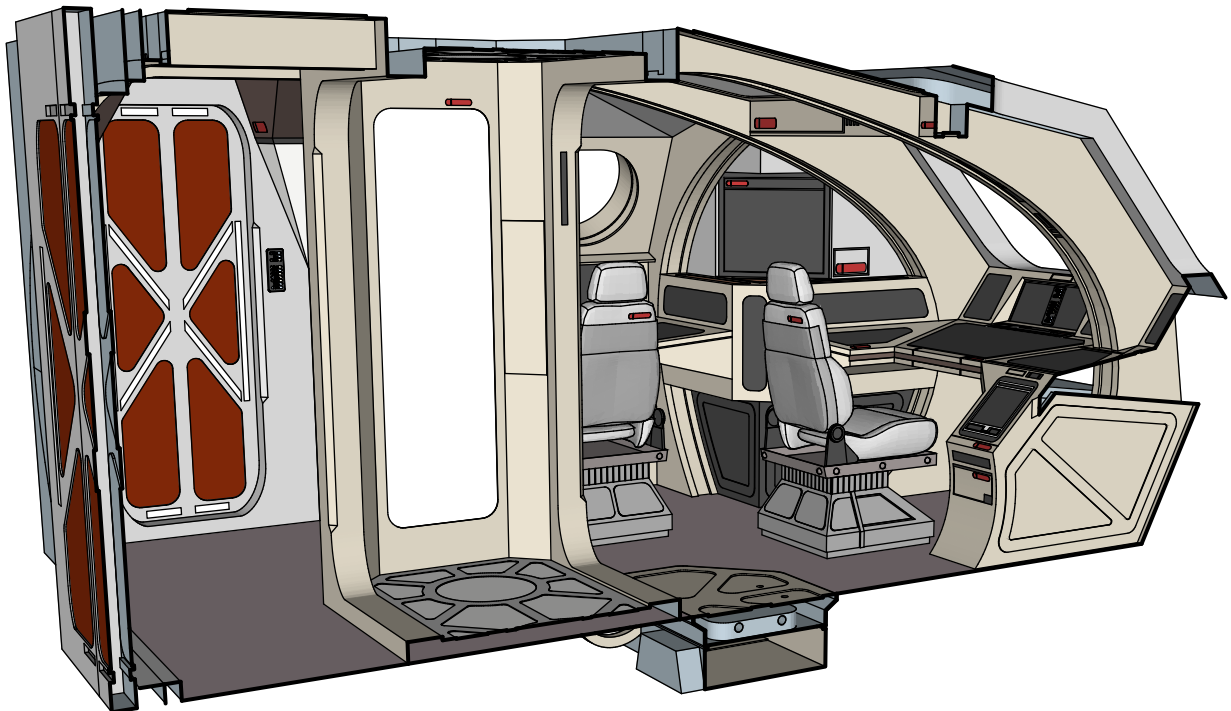
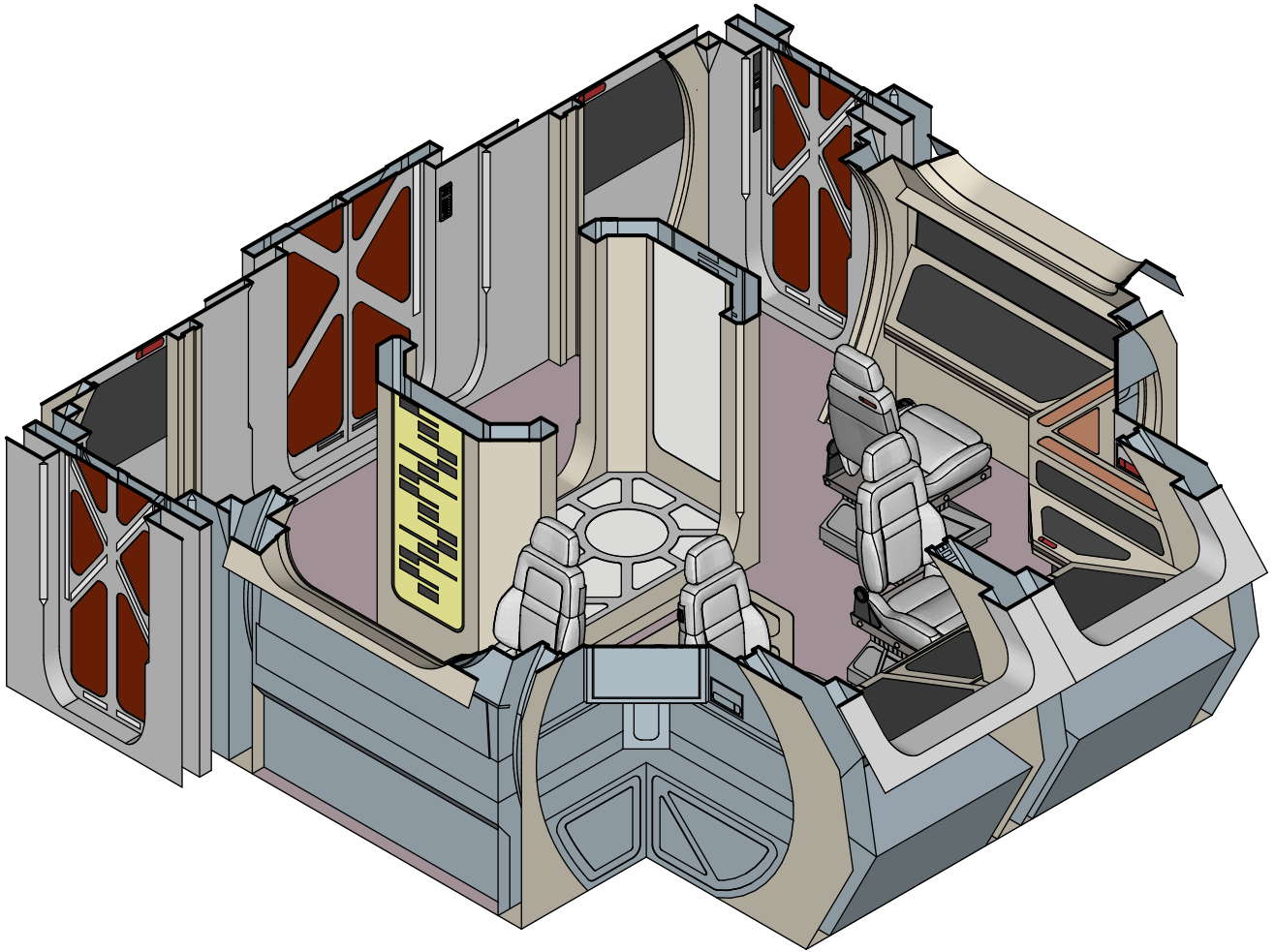
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OVERVIEW

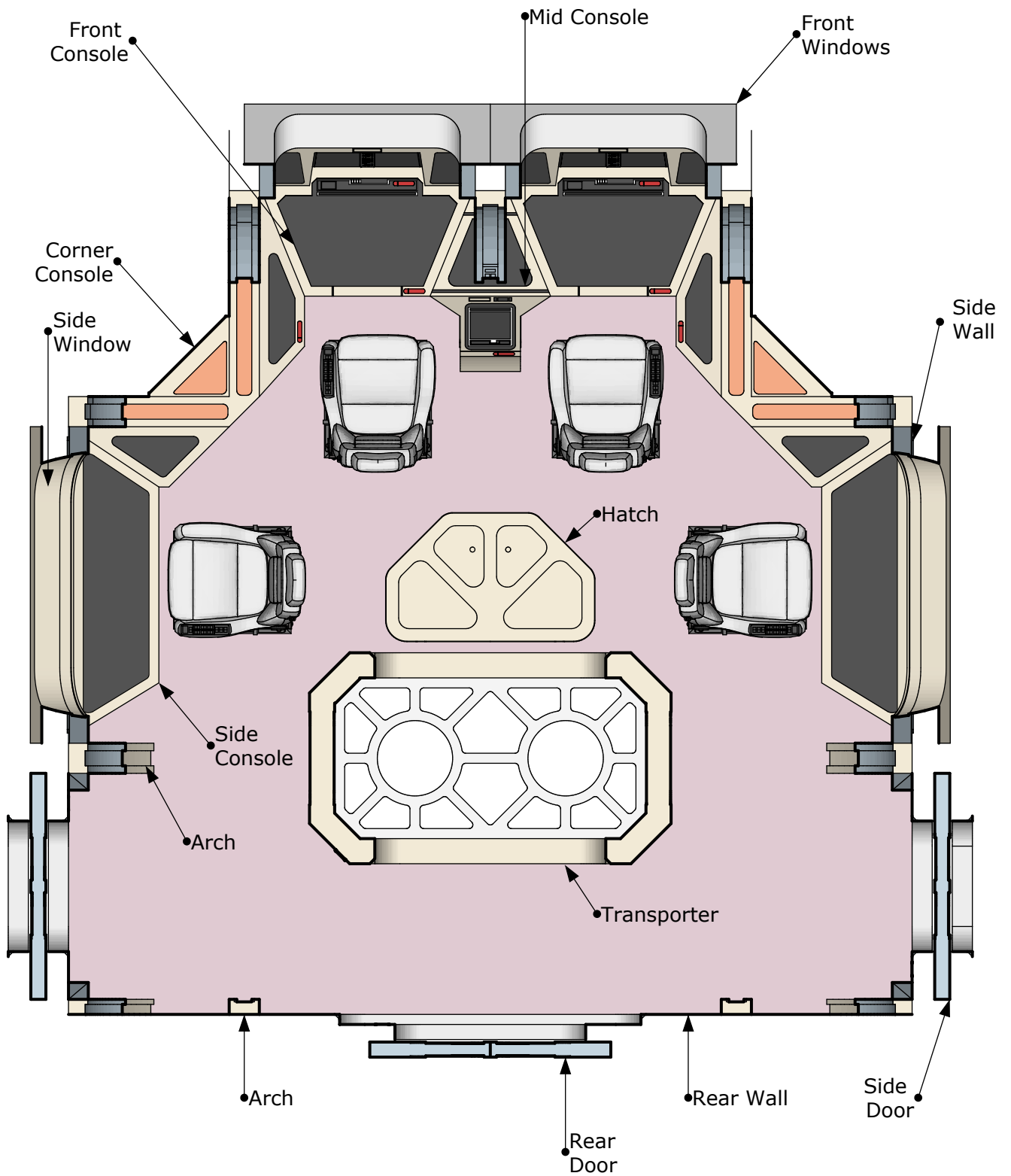
Exterior and Interior



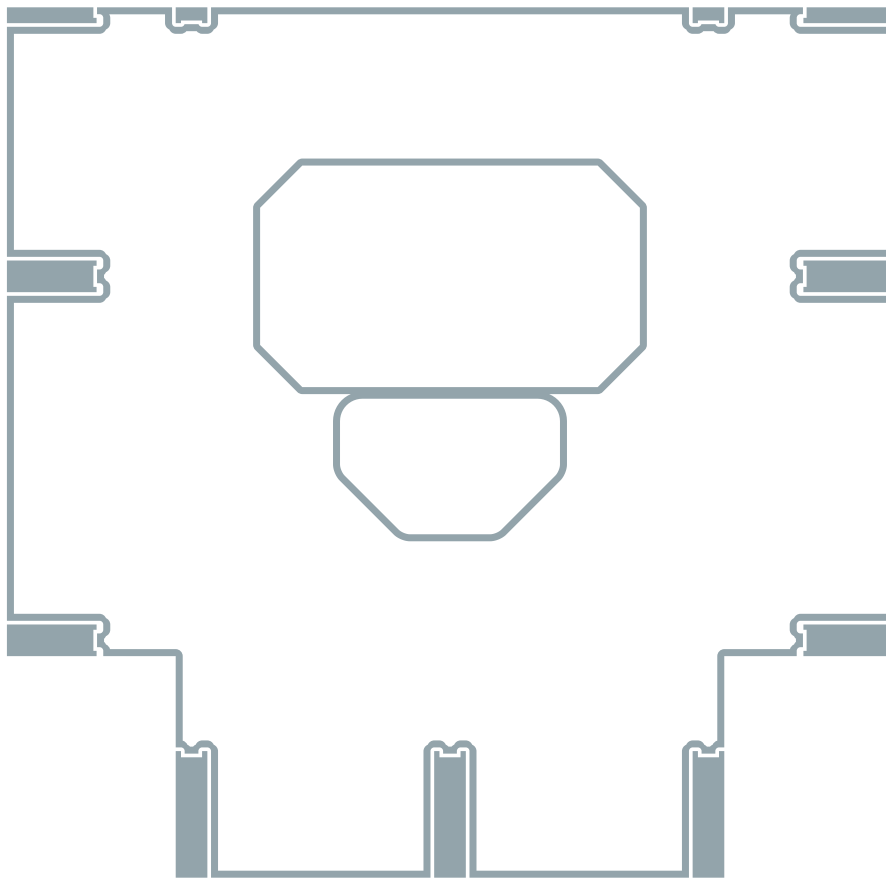
Cutaway Diagrams



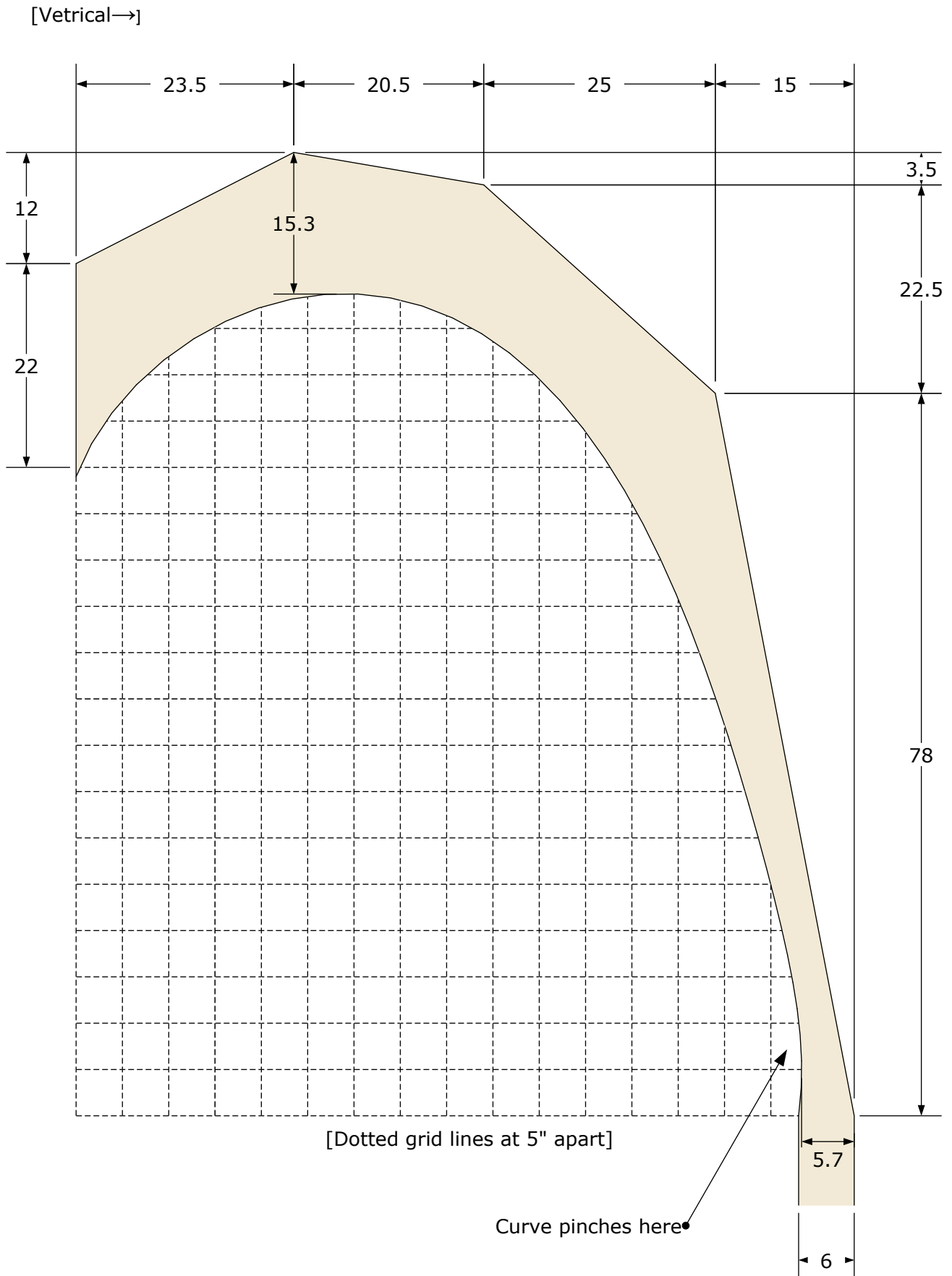
Terminology



STRUCTURE

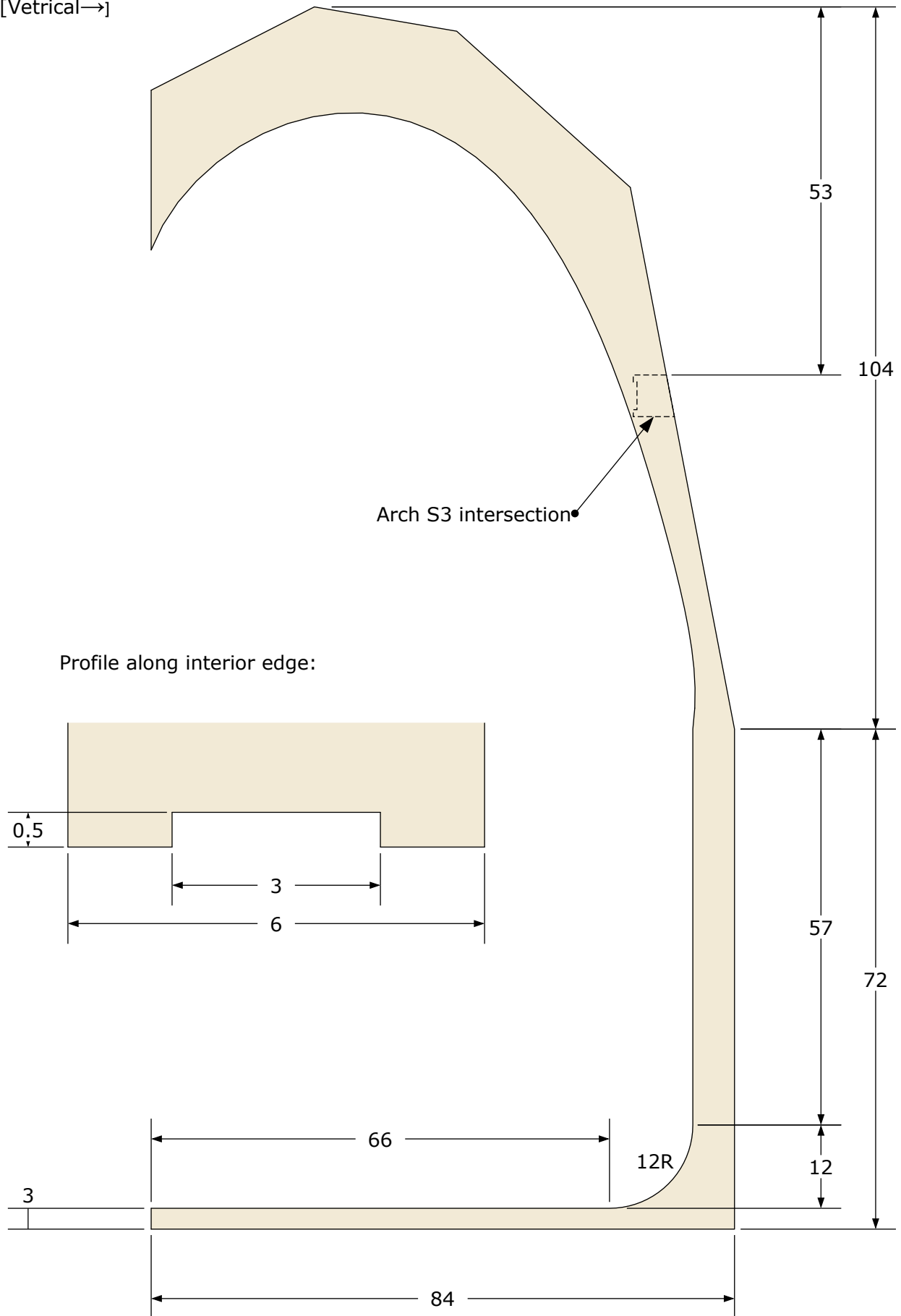


Long Arch Profile



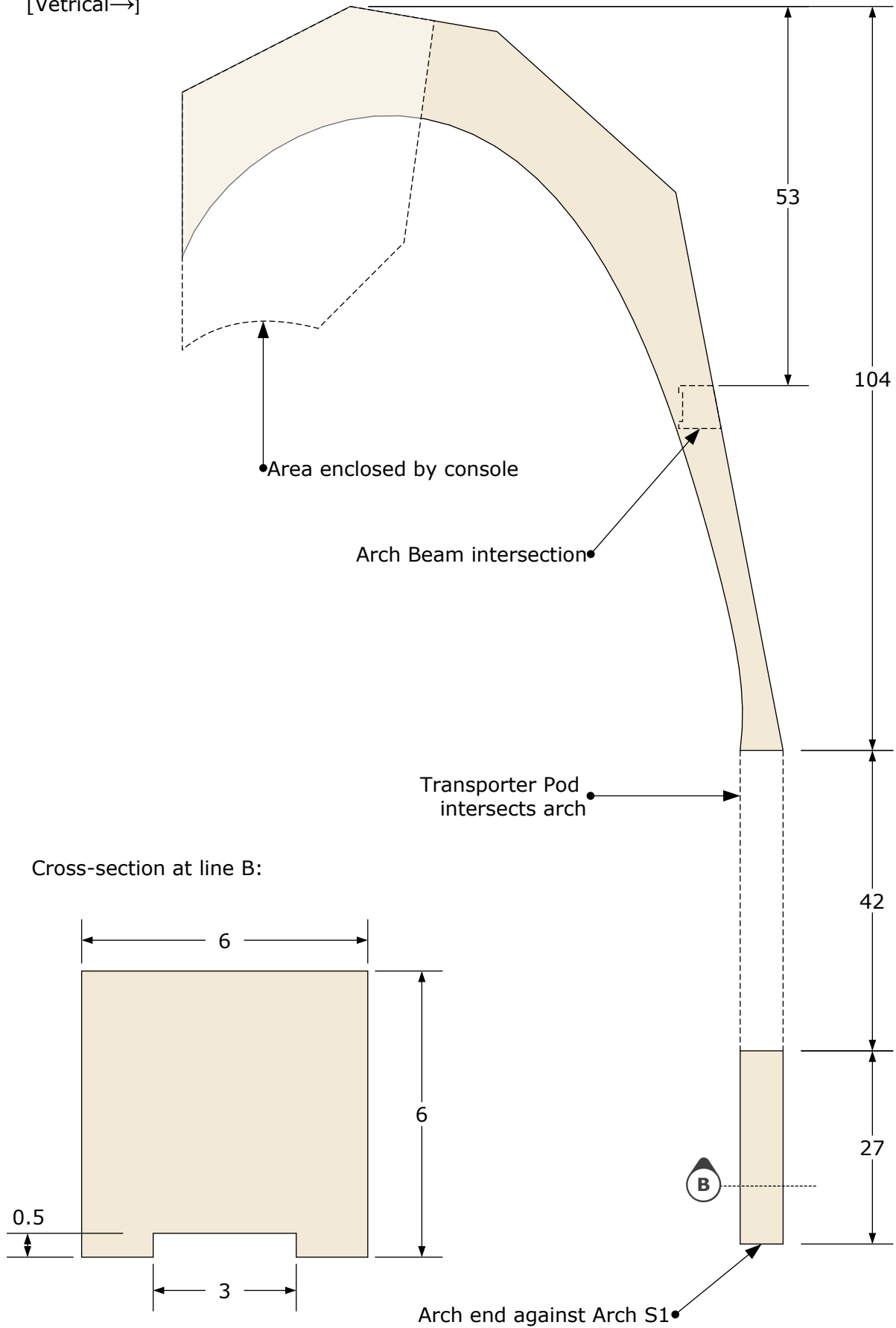
Arch L1

[Vertical →]

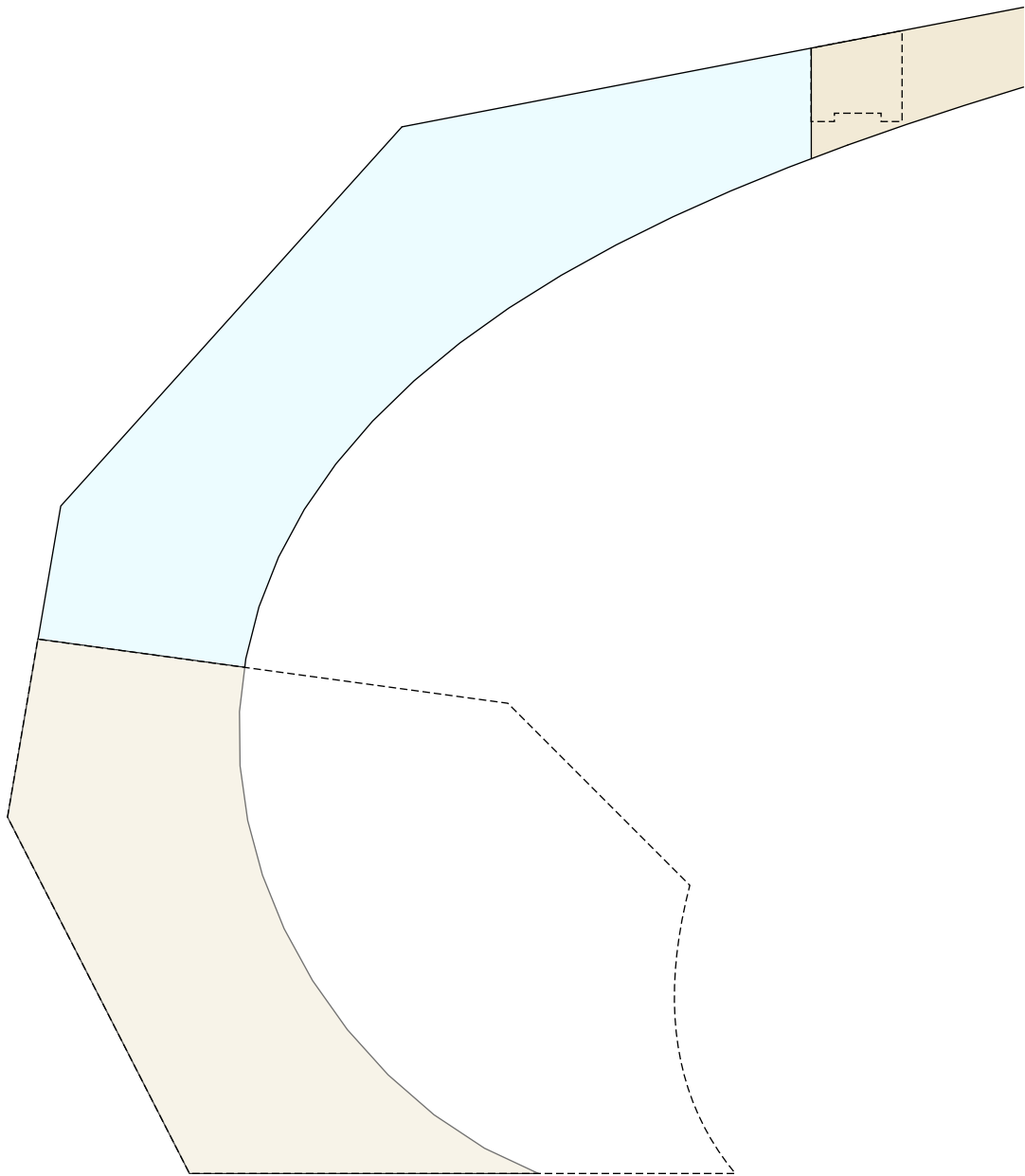


Arch L2

[Vertical →]



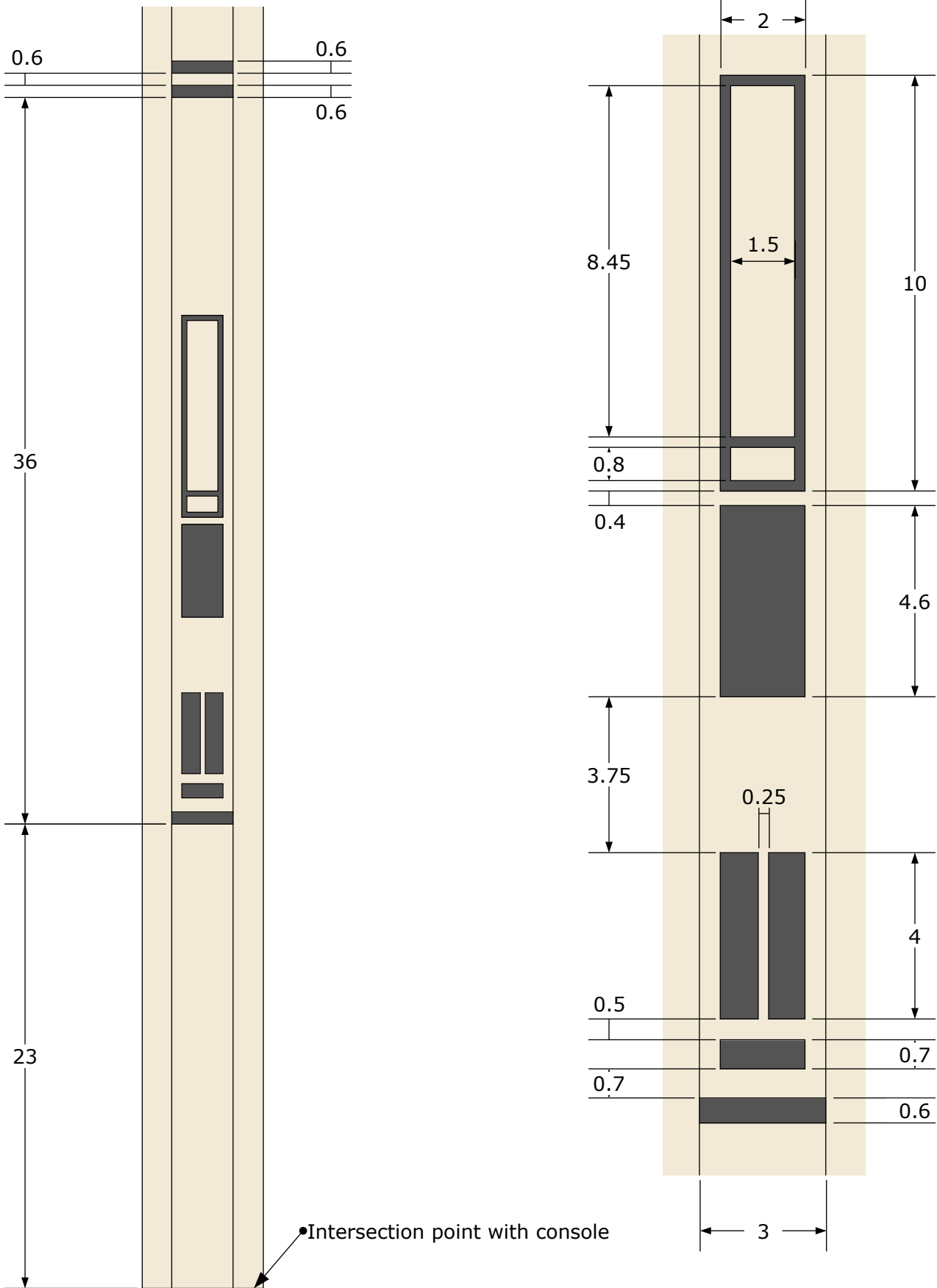
L2 Removable Section



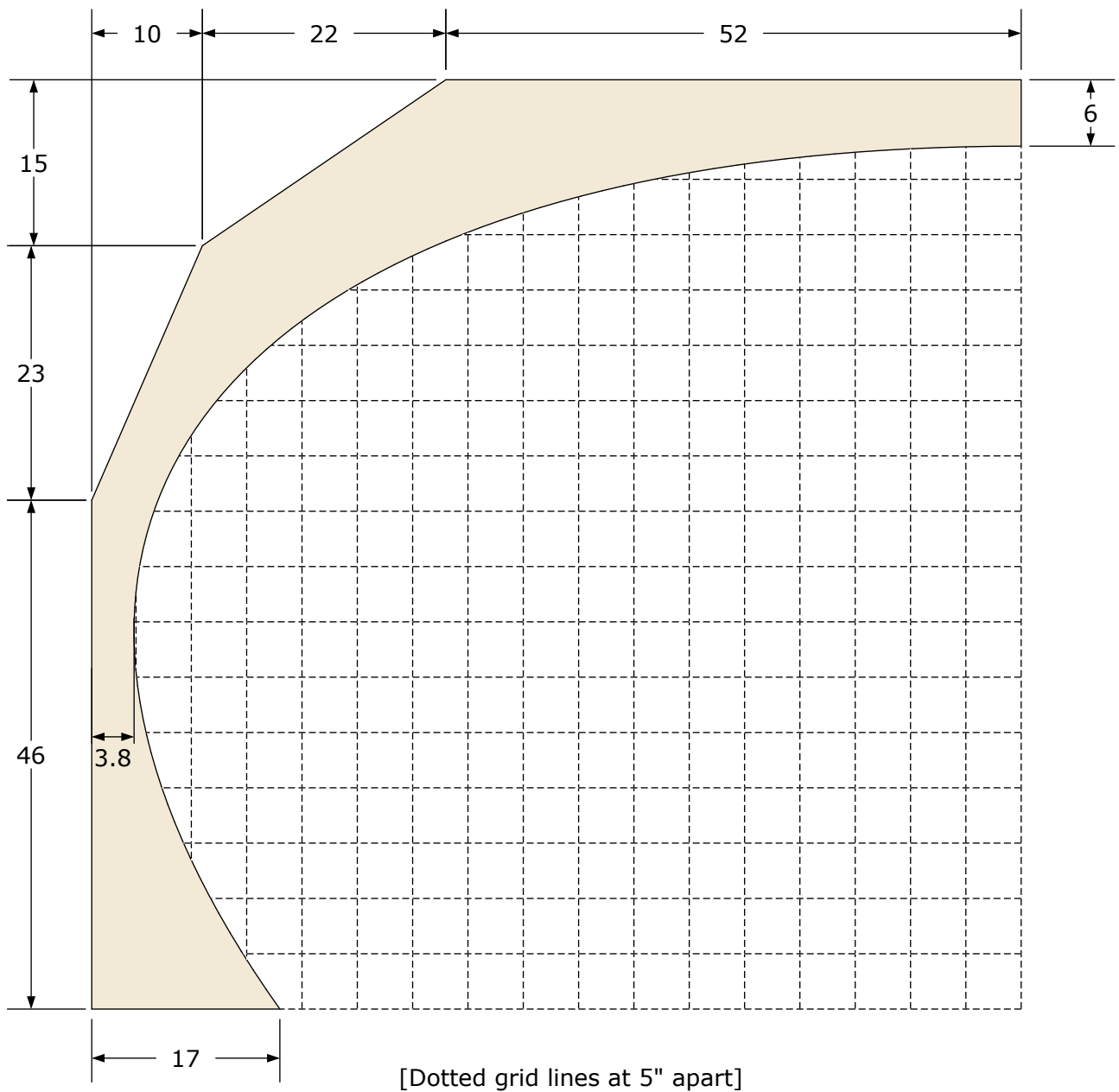
A section of arch L2 (marked in blue) was removable to better enable certain camera angles. Front window frames would also be removed.

L2 Pattern

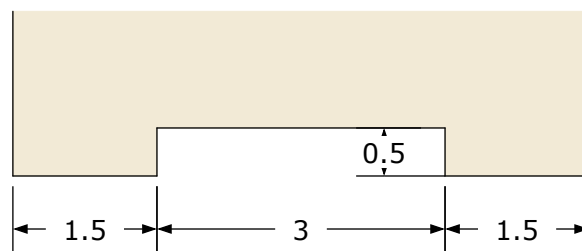
Note: All vertical measurements on this page are curved - they follow the surface curvature of arch L2



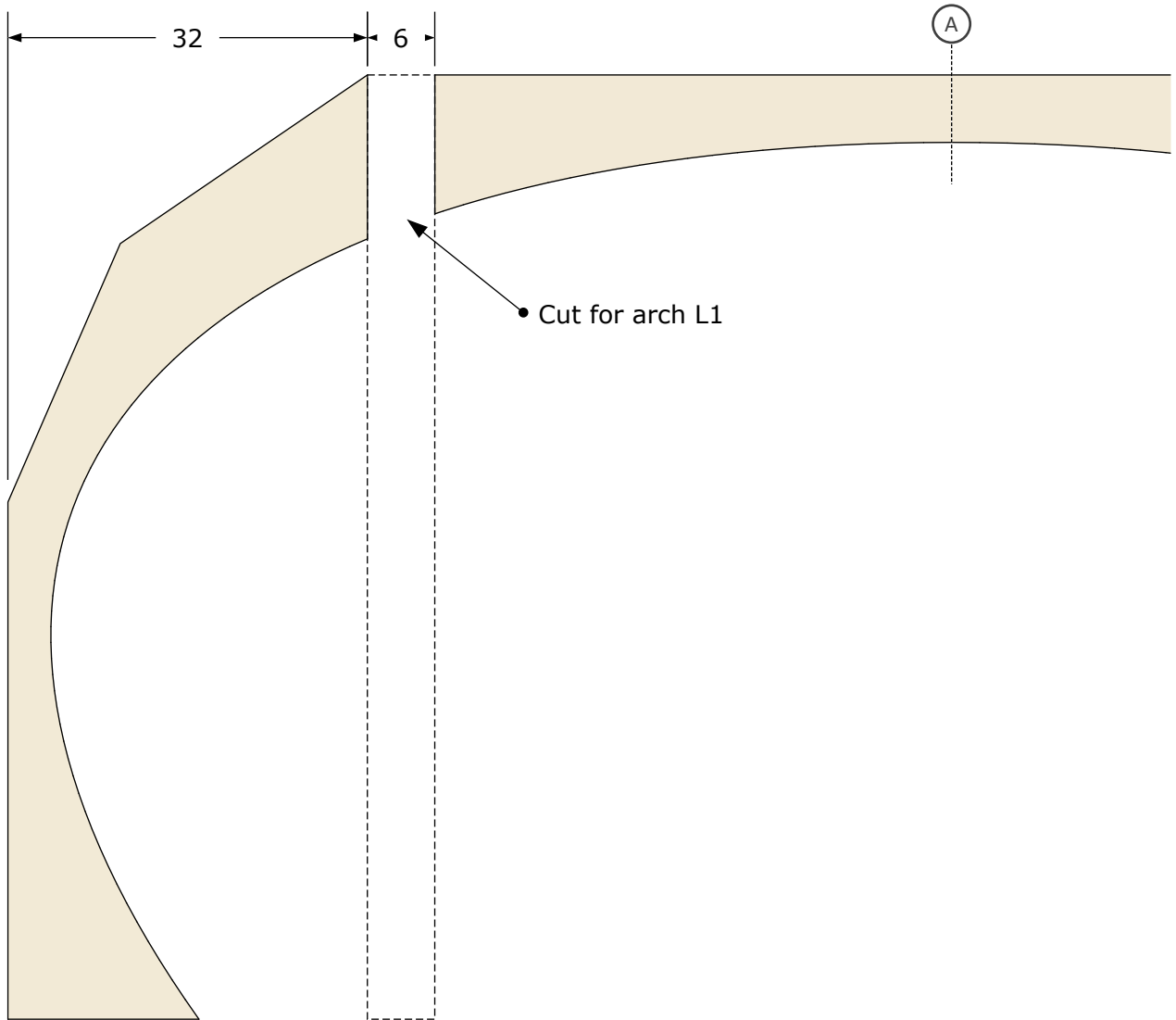
Short Arch Profile



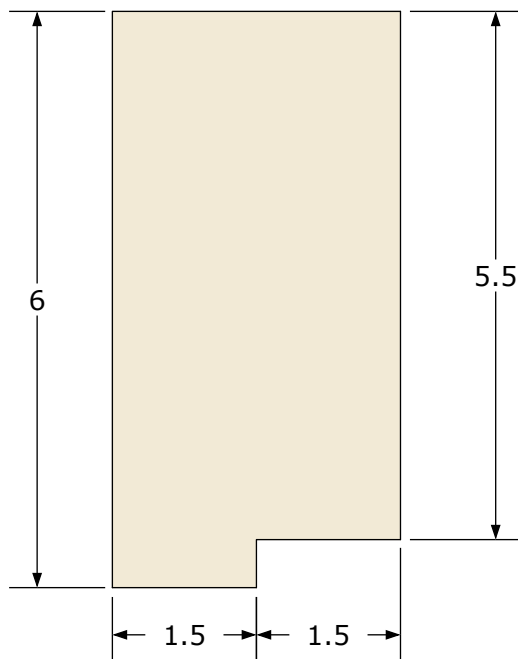
Profile along curved edge:



Arch S1

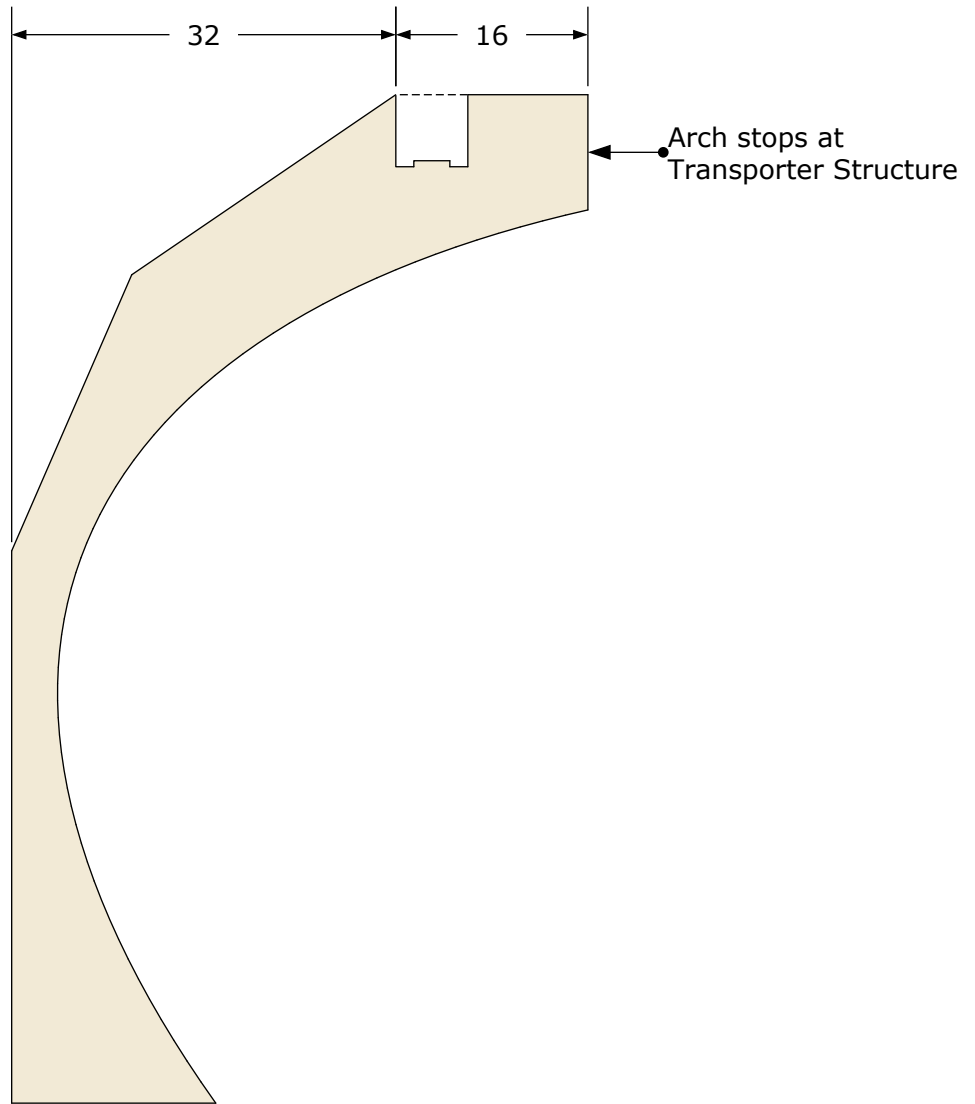


Profile at point A:

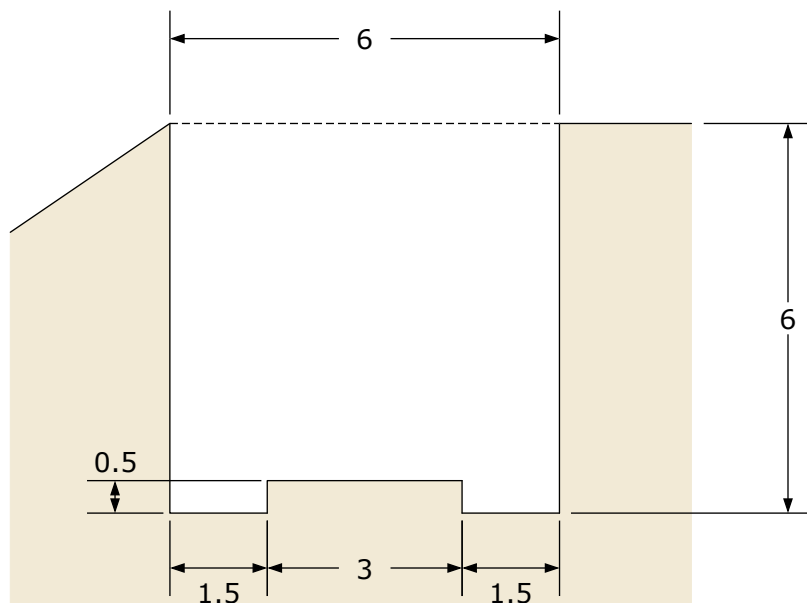


Arch S1 is half as deep as the other arches

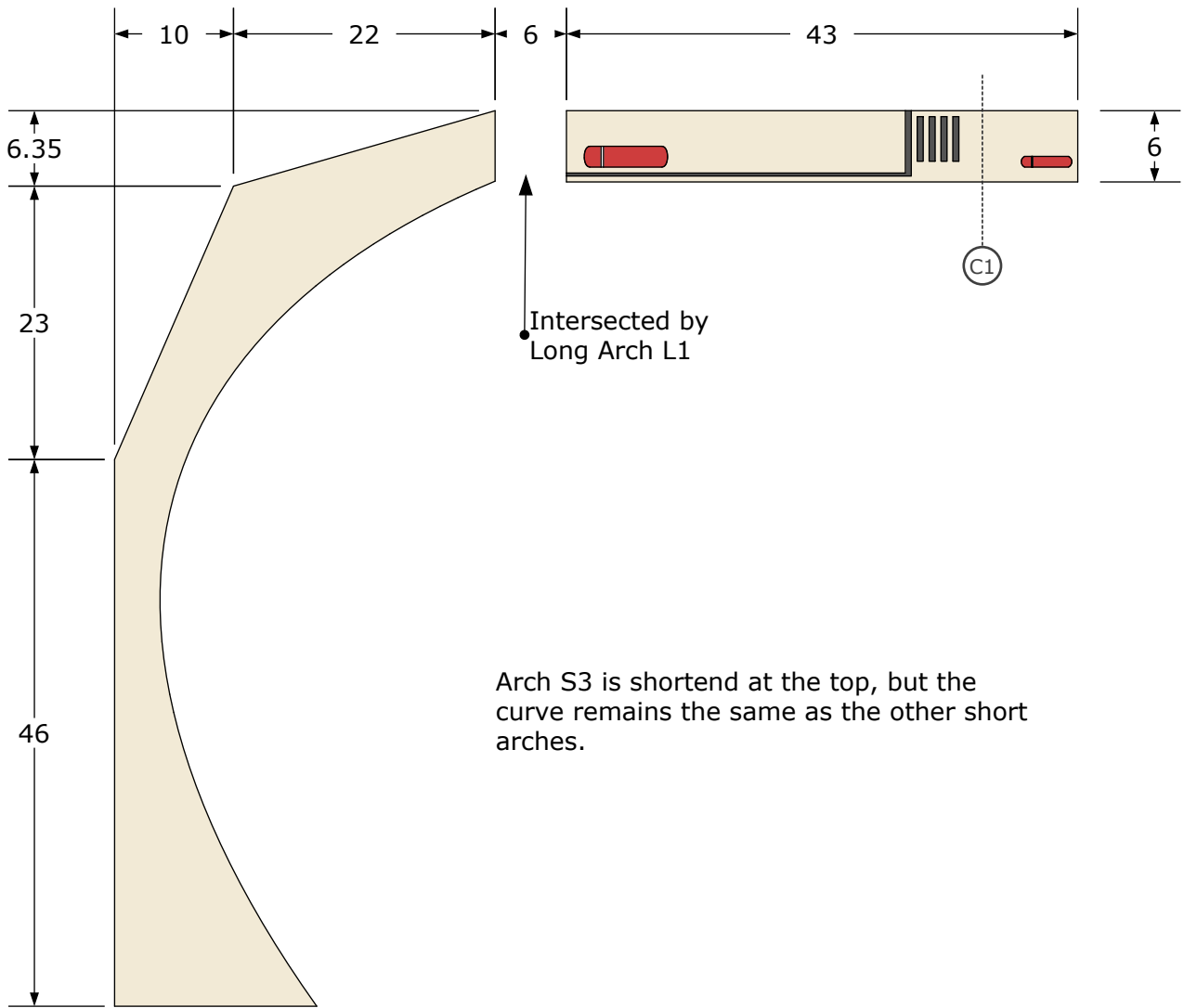
Arch S2



Intersection with Arch L1:

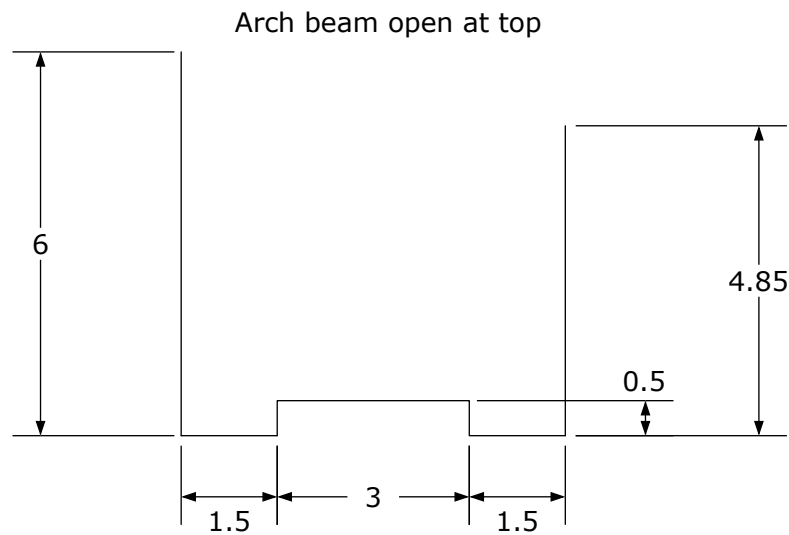


Arch S3

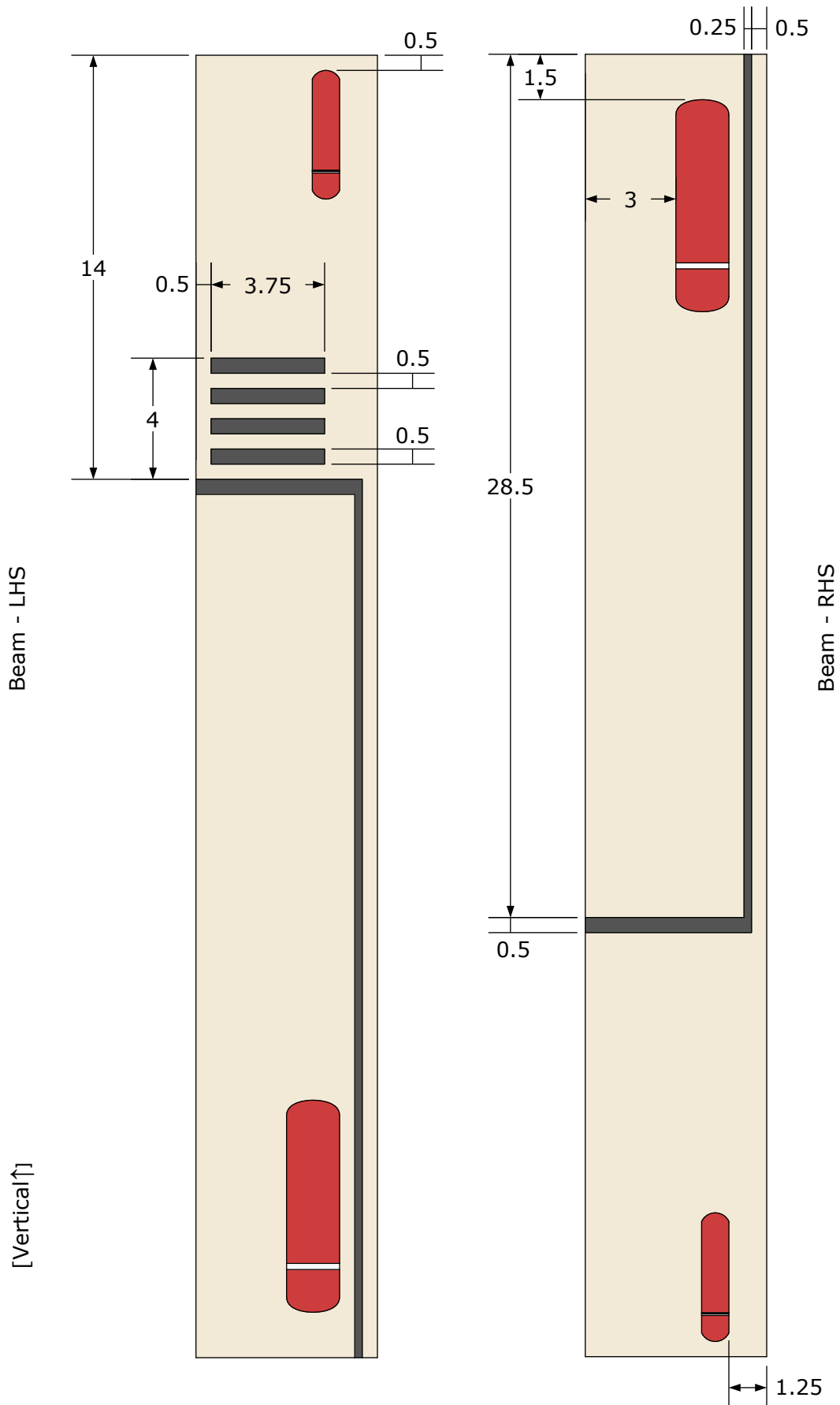


Arch S3 is shortend at the top, but the curve remains the same as the other short arches.

Cross-section C1:

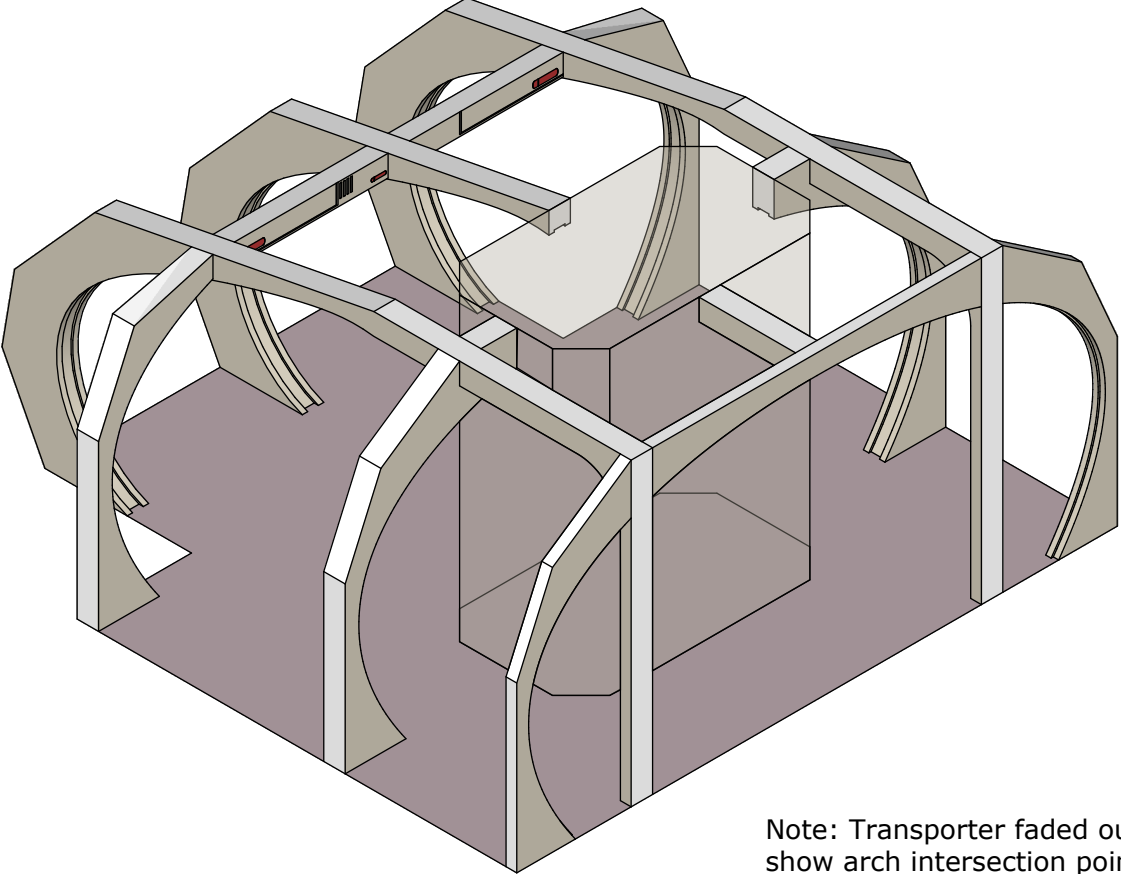
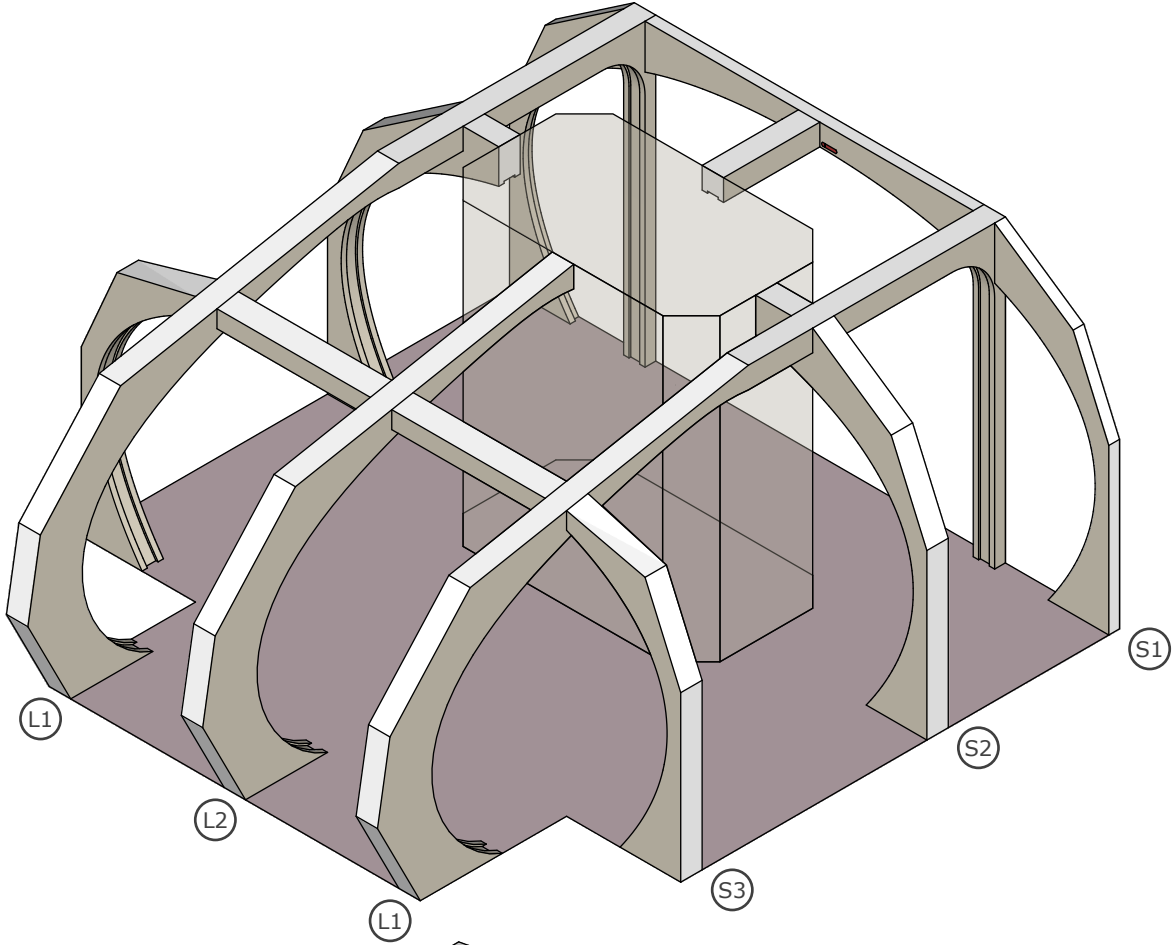


Arch Beam



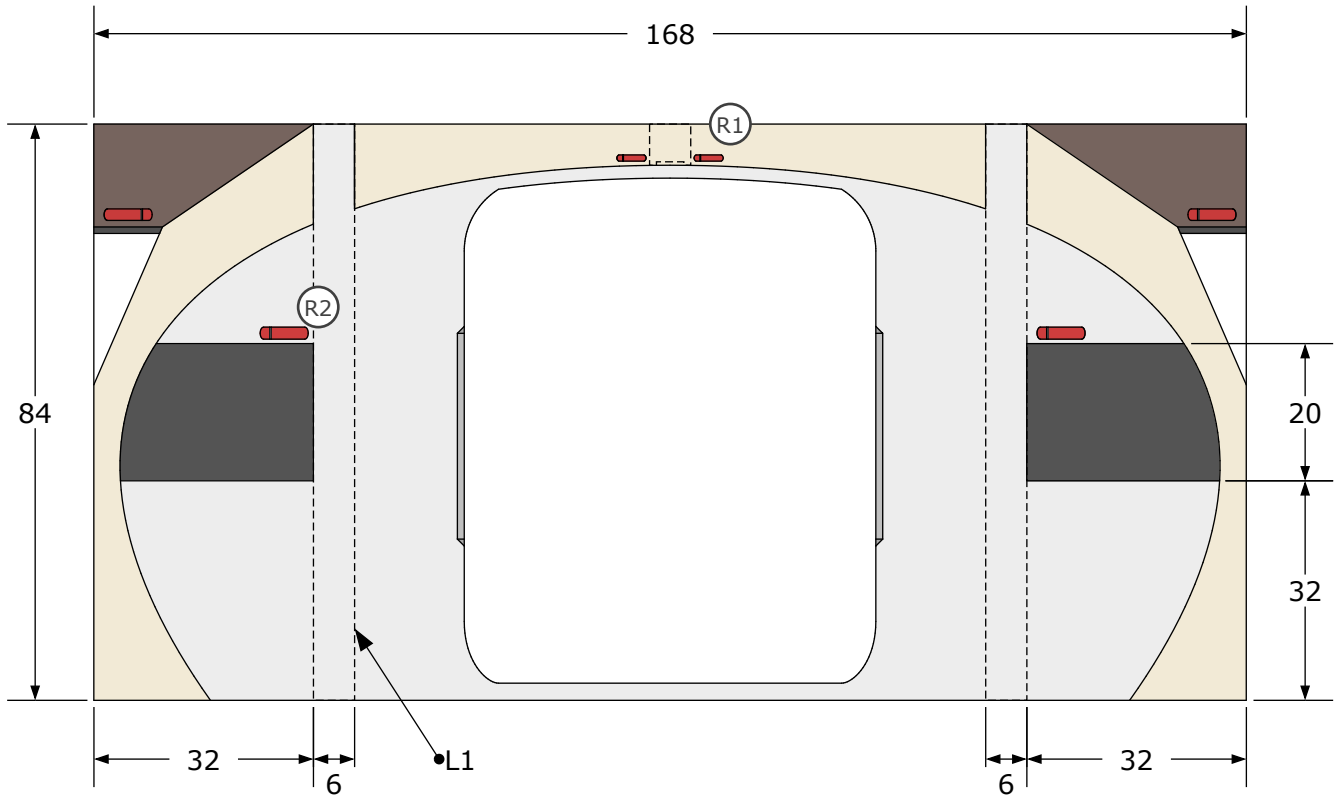
Note: apart from the four black bars, the beams mirror each other

Arch Assembly

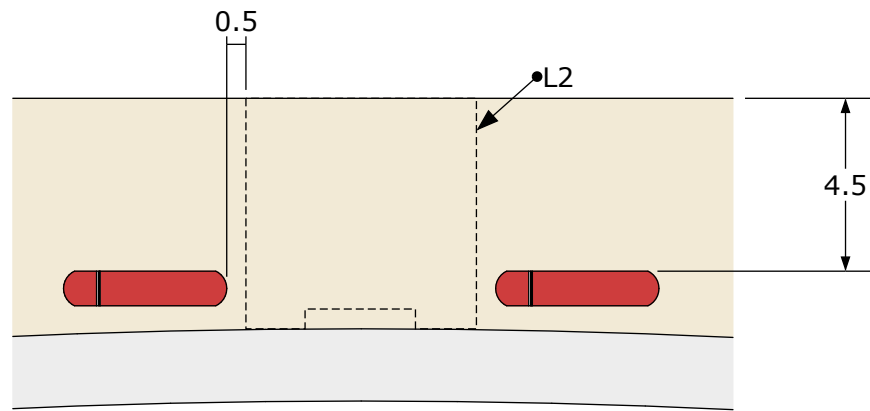


Note: Transporter faded out to show arch intersection points

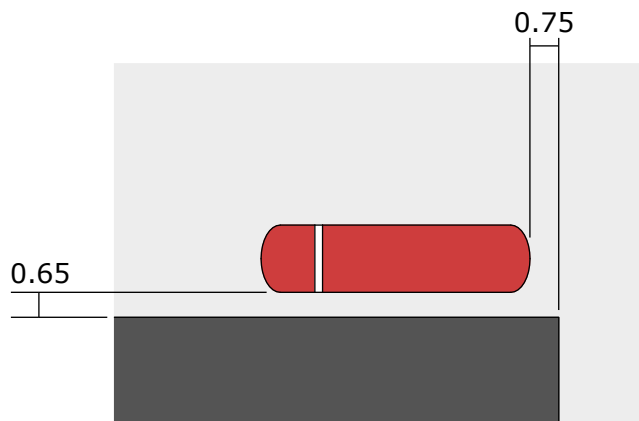
Rear Wall



Detail R1:

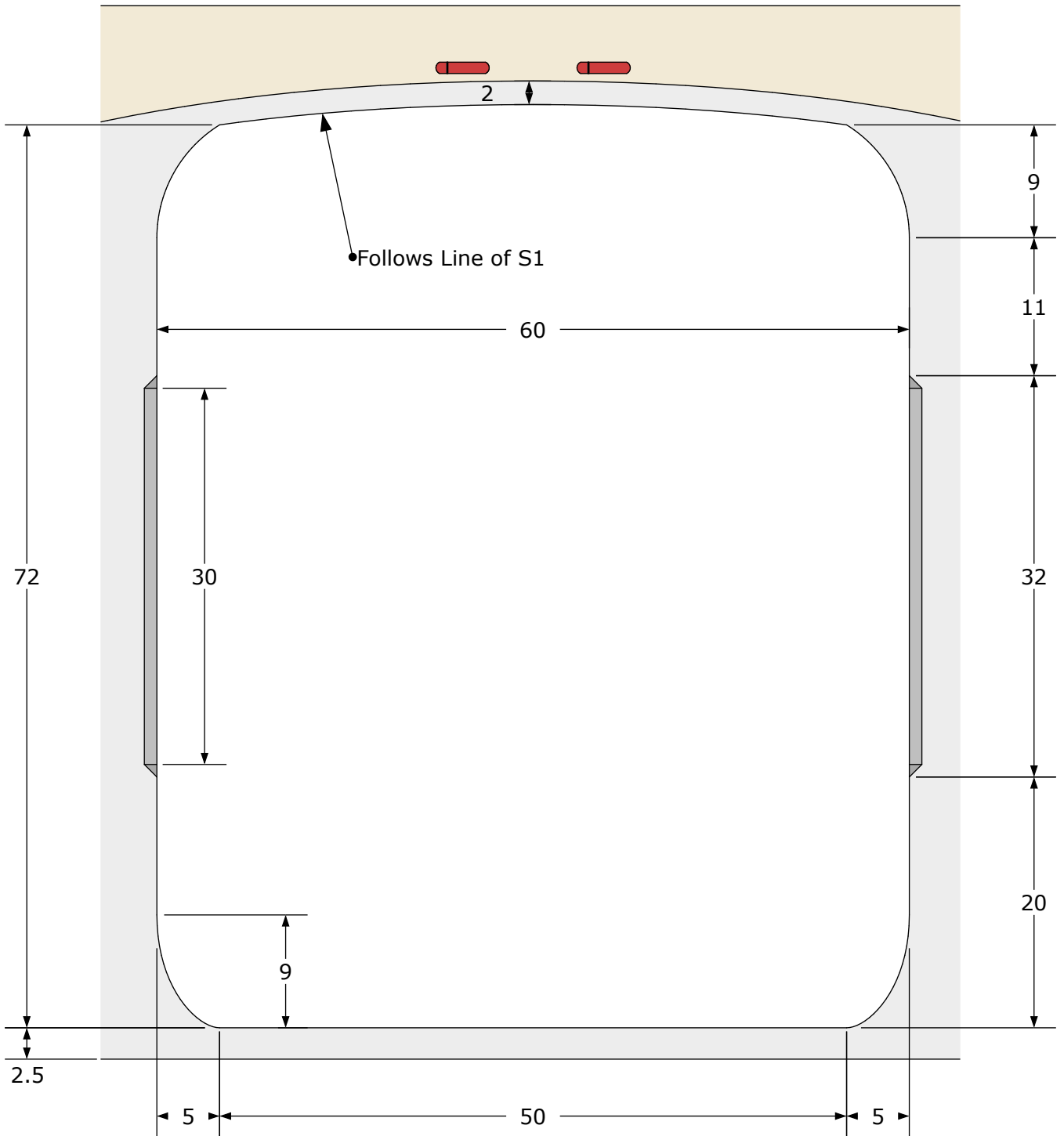


Detail R2:



Rear Wall Opening

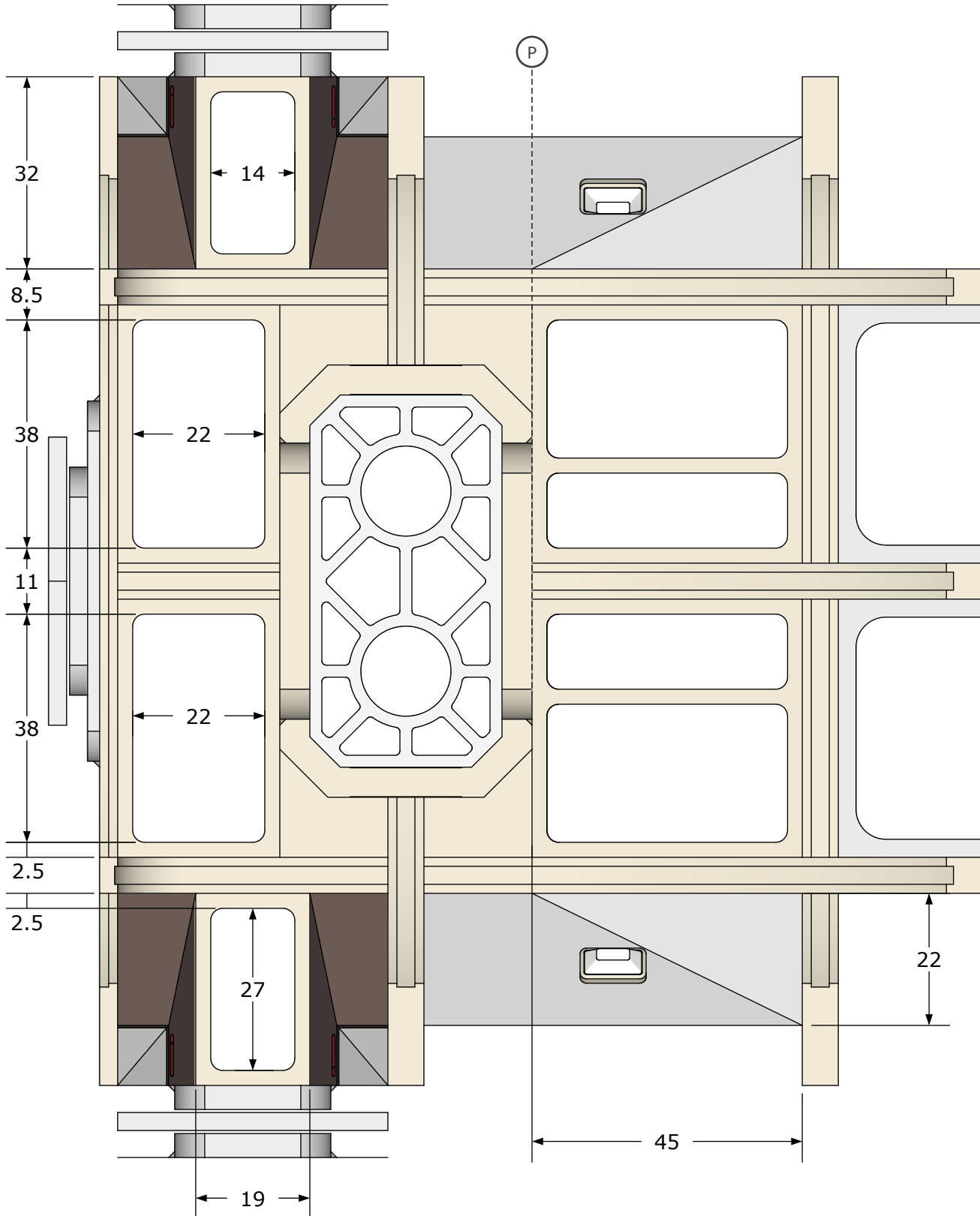
The rear door frame was mounted against the opening for the first episode. Other episodes would feature an instrument panel instead.



Opening 3" deep

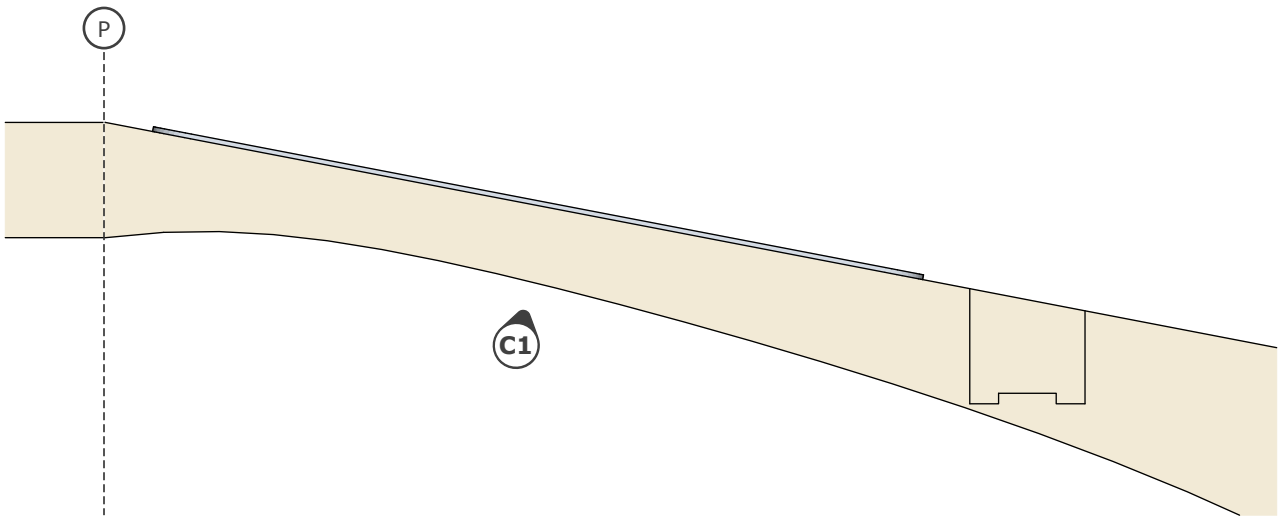
Ceiling Light Panels

Ceiling panels forward of line P, follow the angle of the long arches.

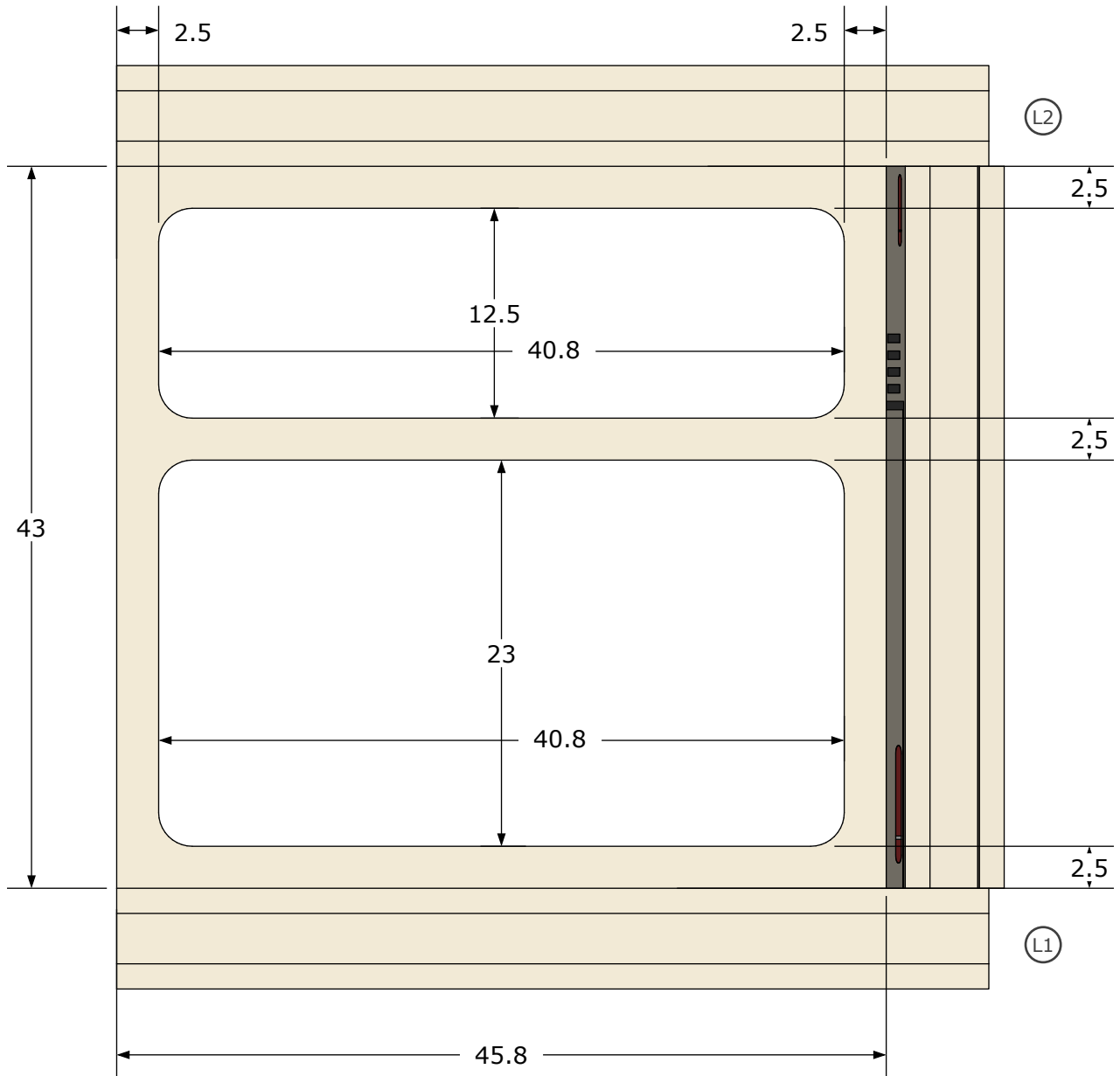


All light panels have rounded corners of 2" radius

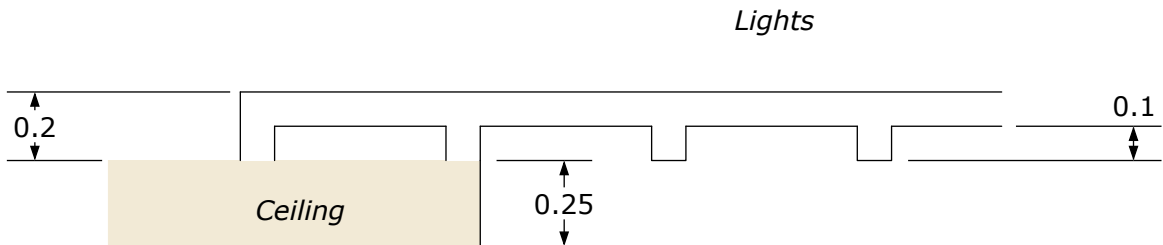
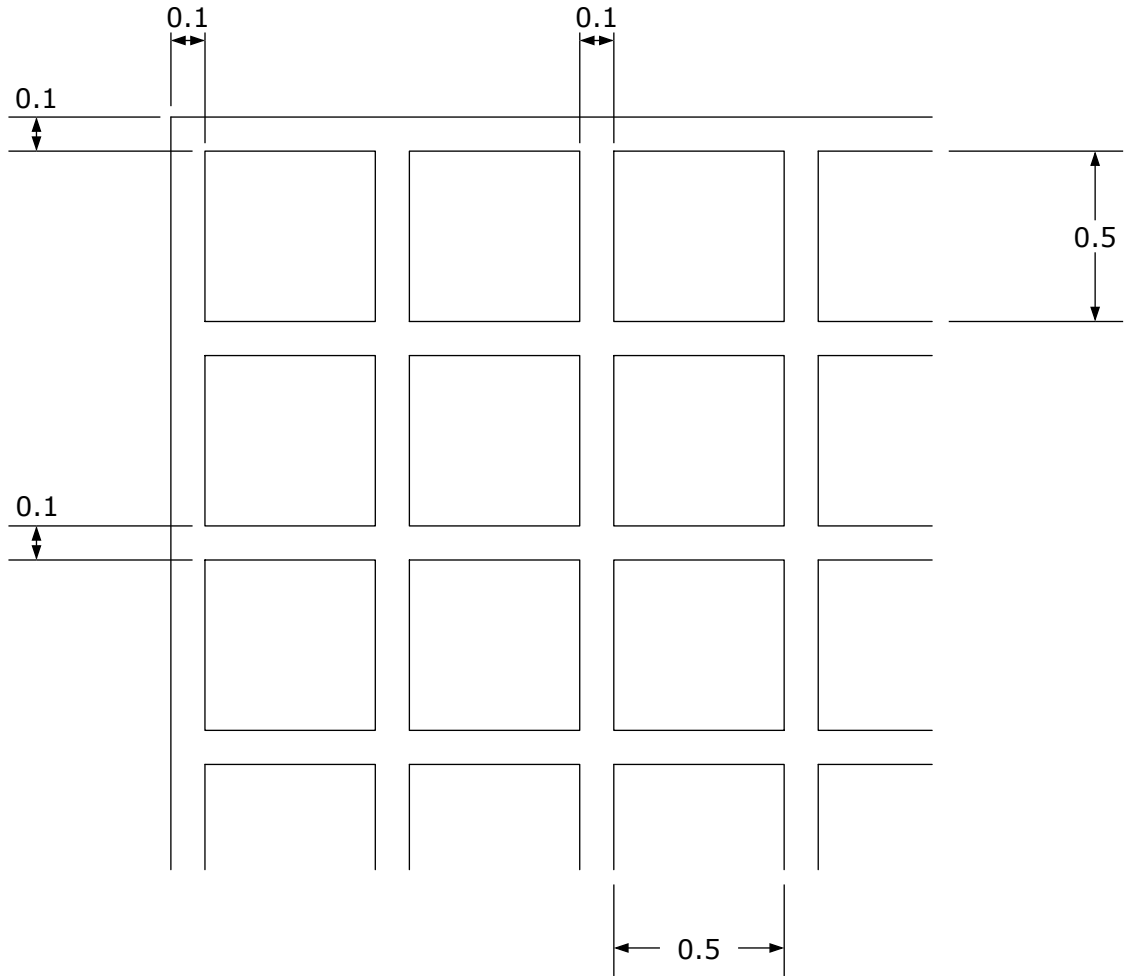
Forward Light Panels



Angled View C1:



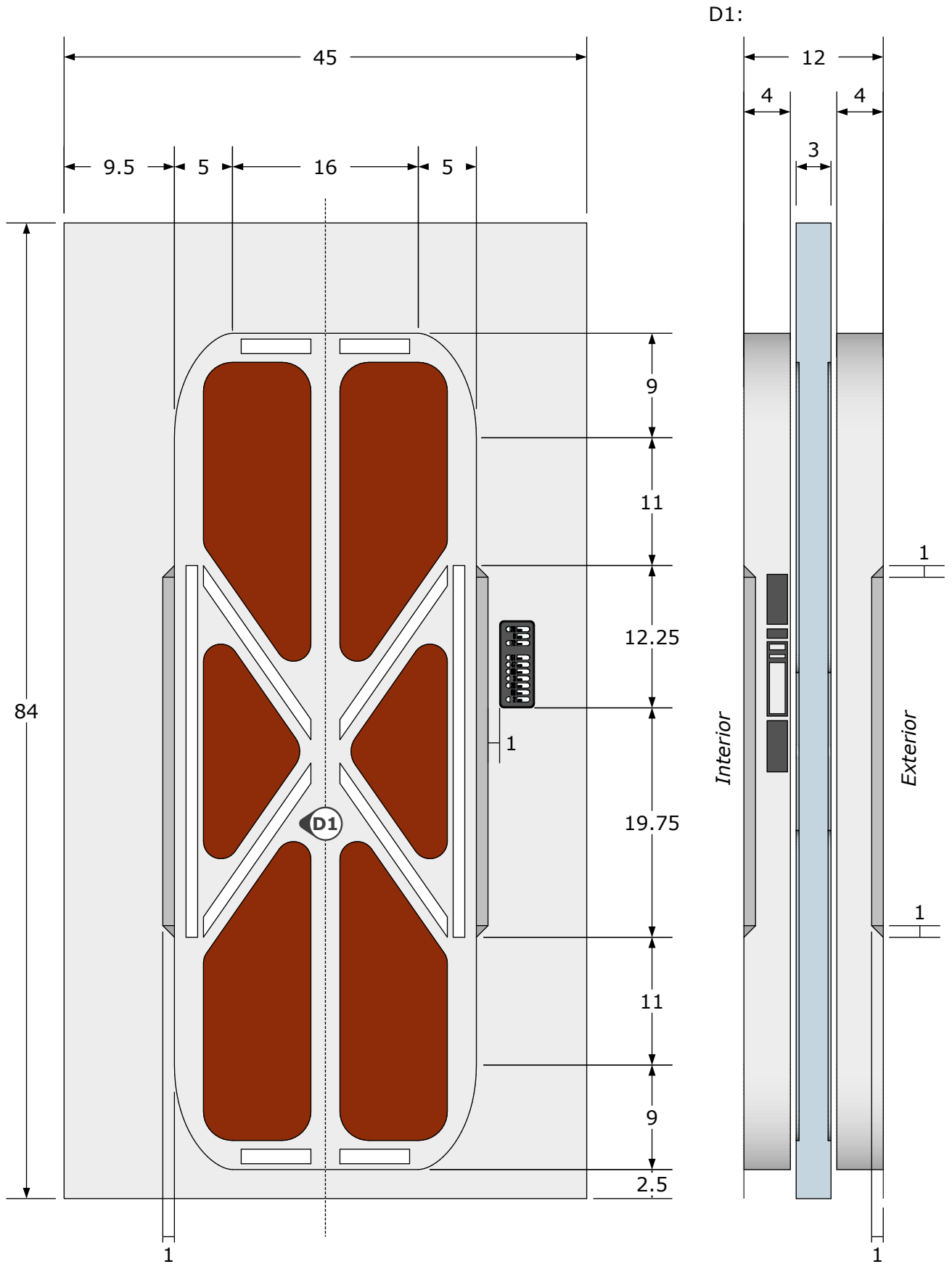
Light Panel Material



DOORS

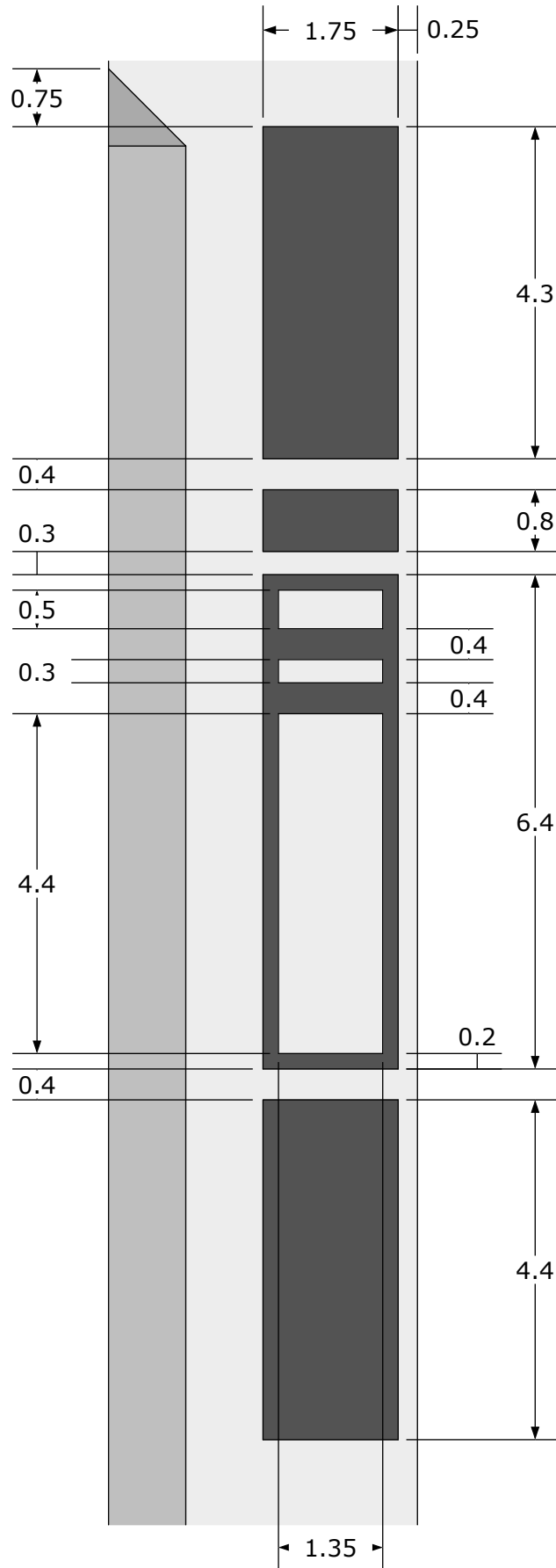


Side Door Frame



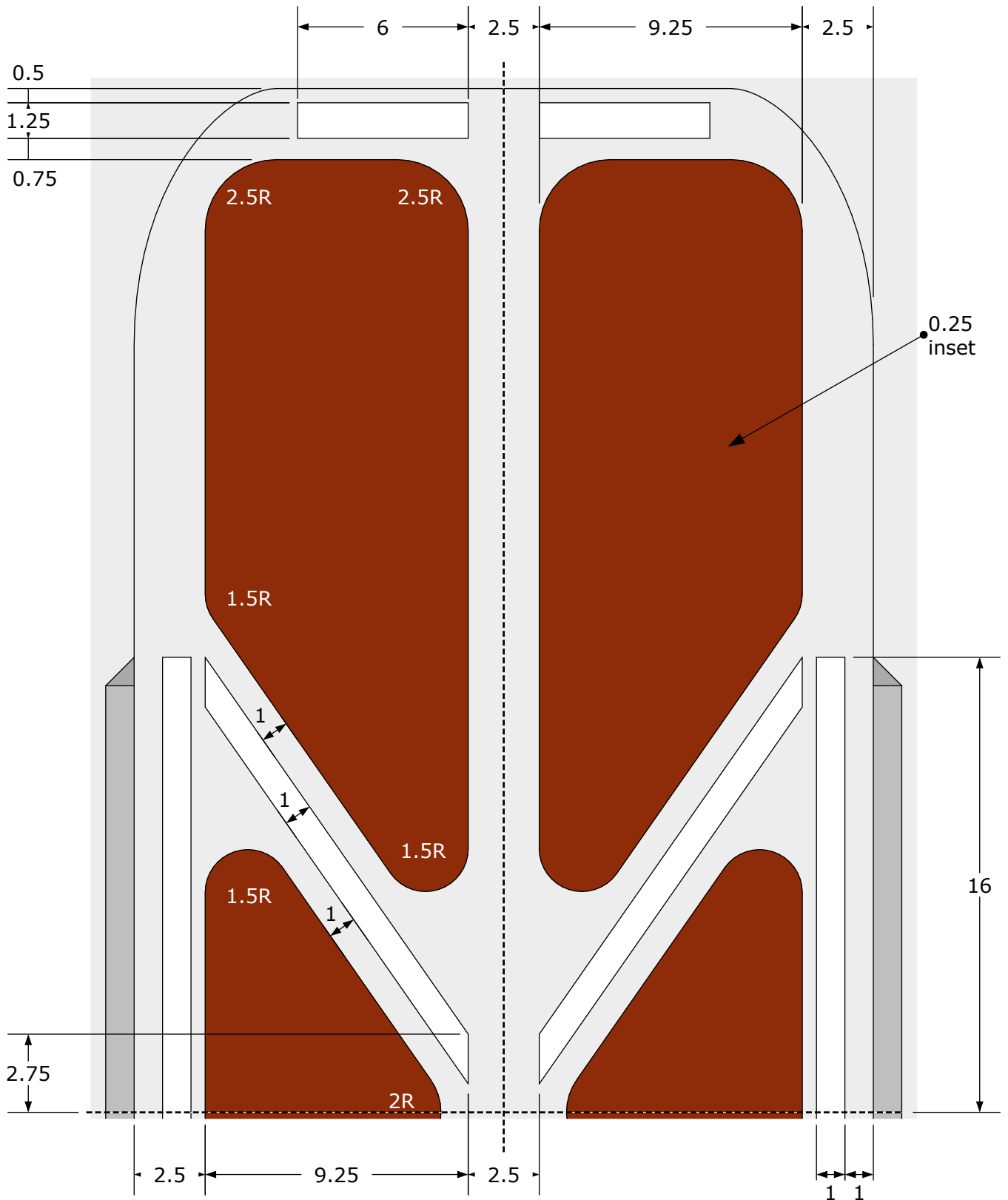
Frame Pattern

Note: frame pattern only on side nearest rear wall



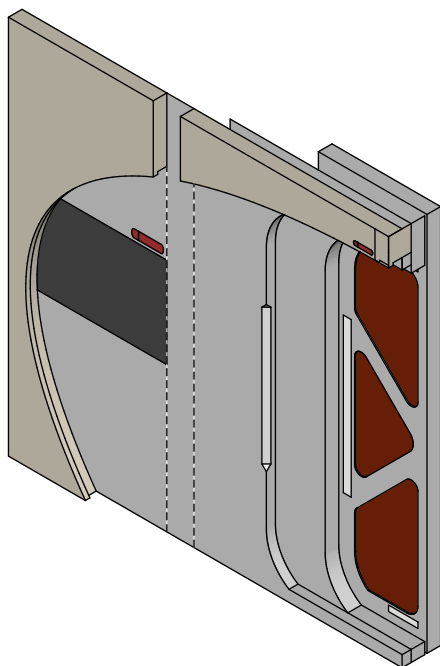
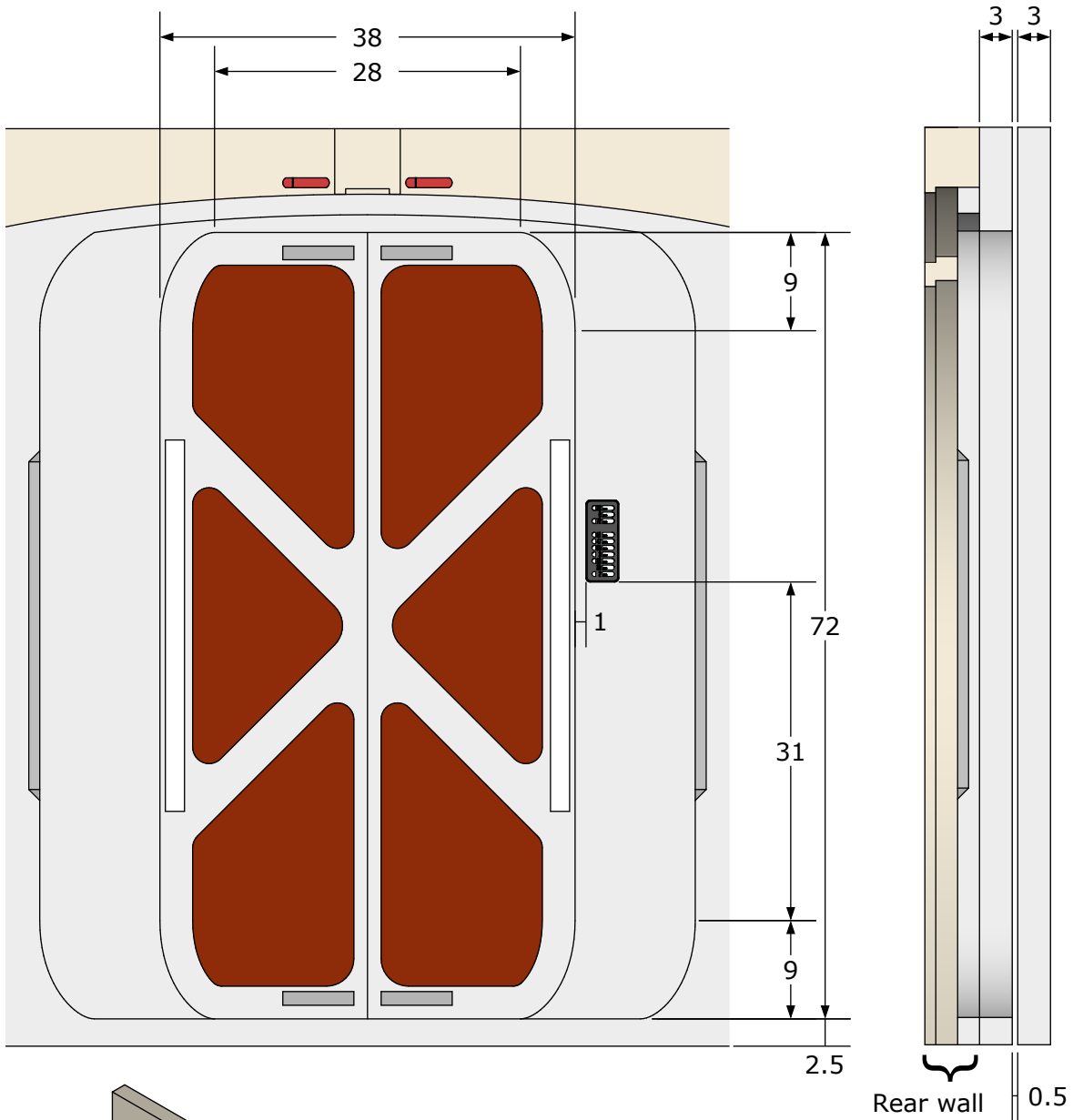
Side Door

Although the light bars were normally lit (as shown in diagram), early episodes had them unlit.



Note: Door is mirrored across dotted lines

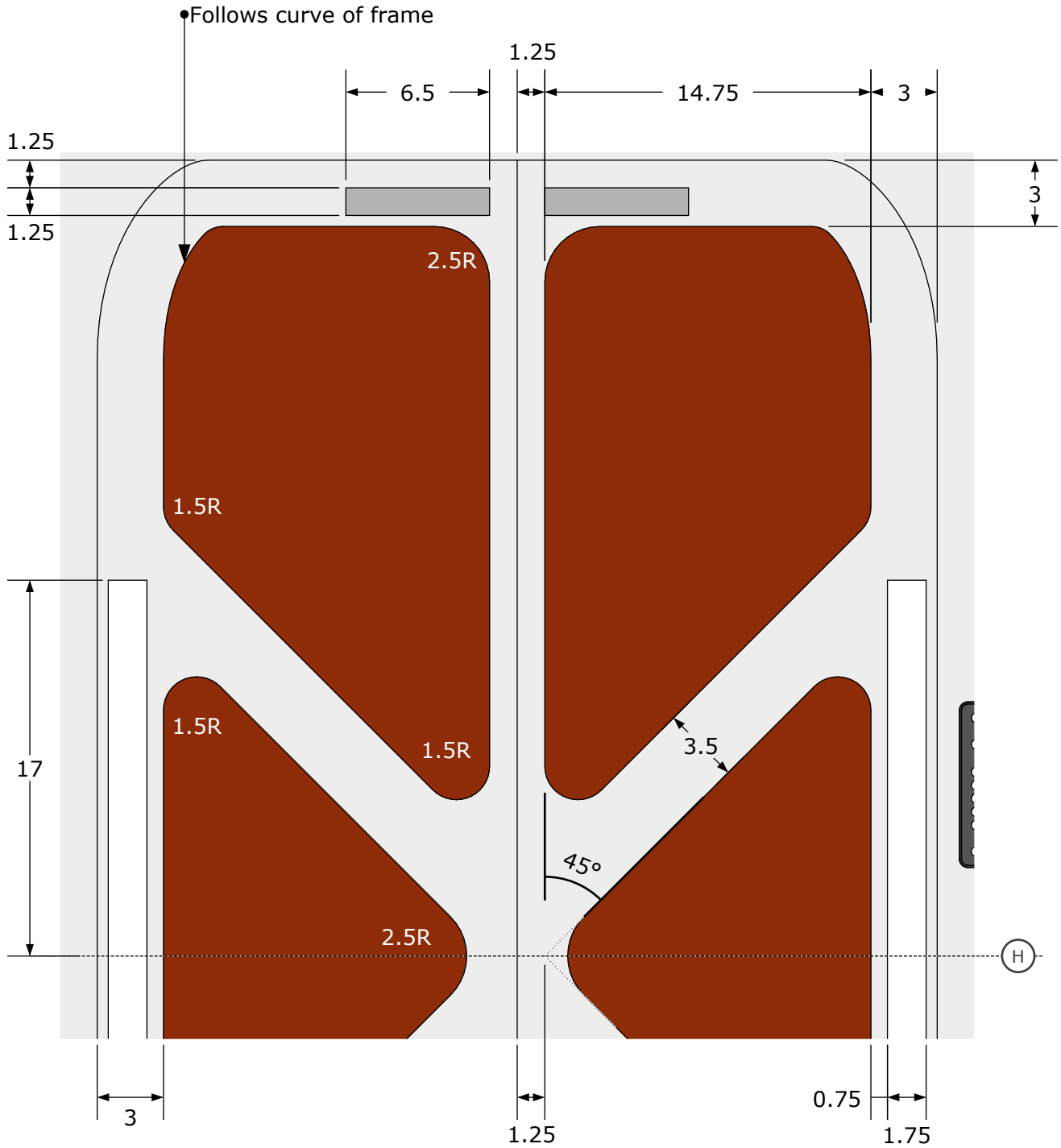
Rear Door Frame



Rear door frame was placed against opening in rear wall. Some episodes replaced the rear door and frame with an instrument panel.

Note: long arches removed from this diagram for clarity

Rear Door

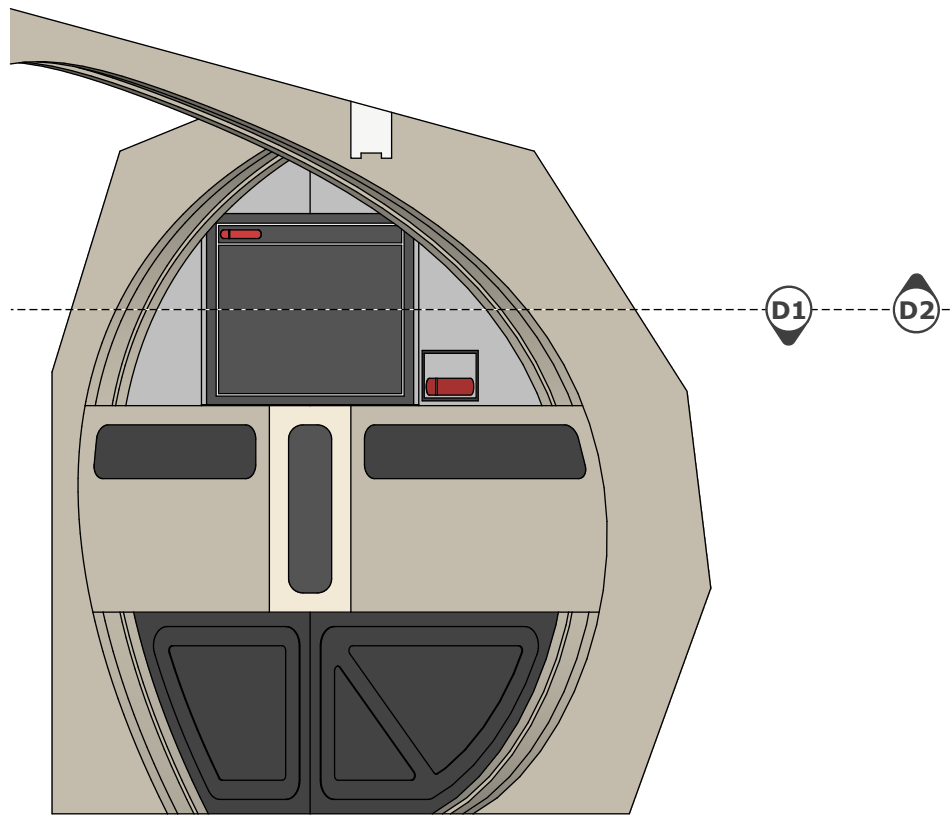
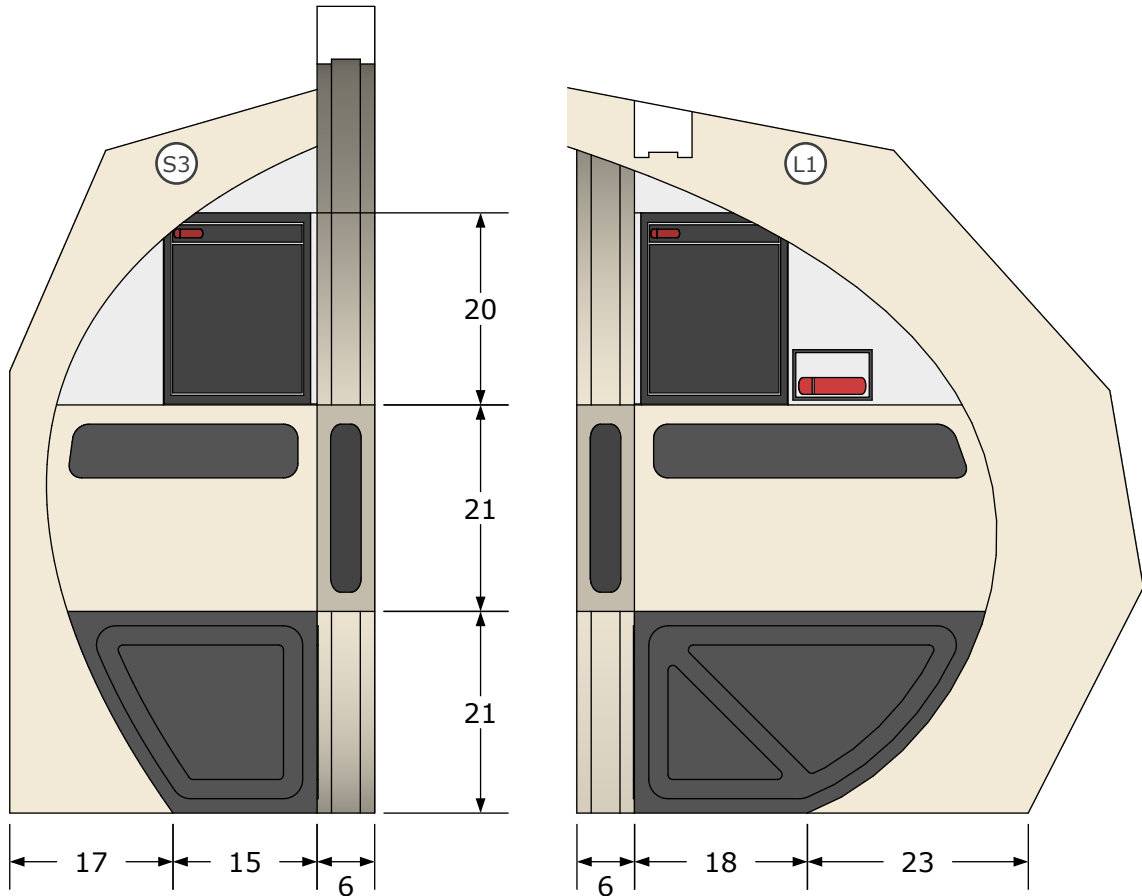


Door is mirrored at line H

FRONT CORNER DISPLAY



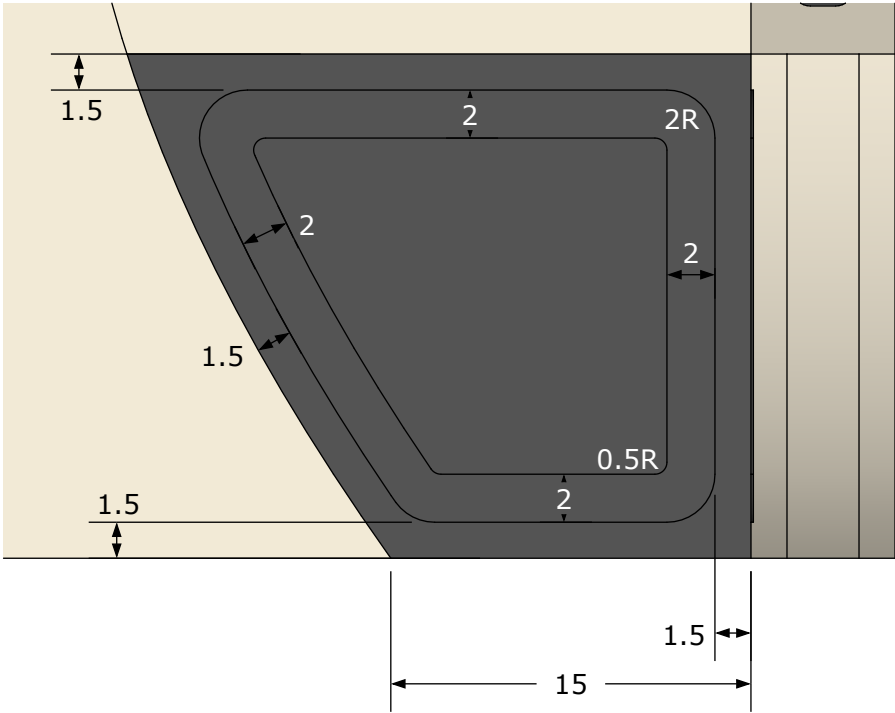
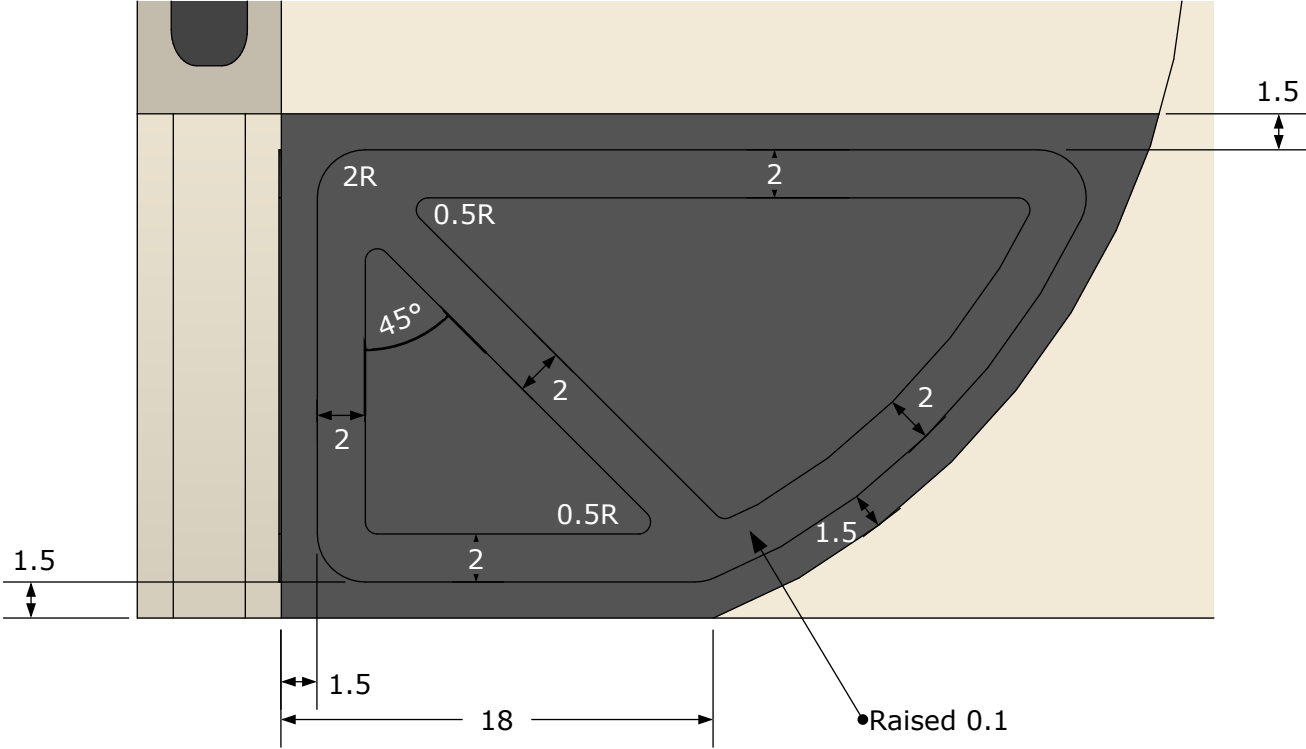
Corner Structure



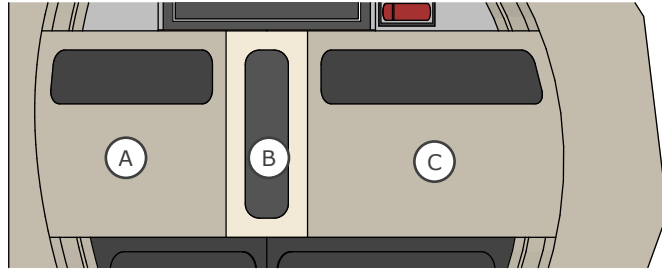
Corner console shown is the LHS version. RHS version is mirror of LHS console.

Lower Patterns

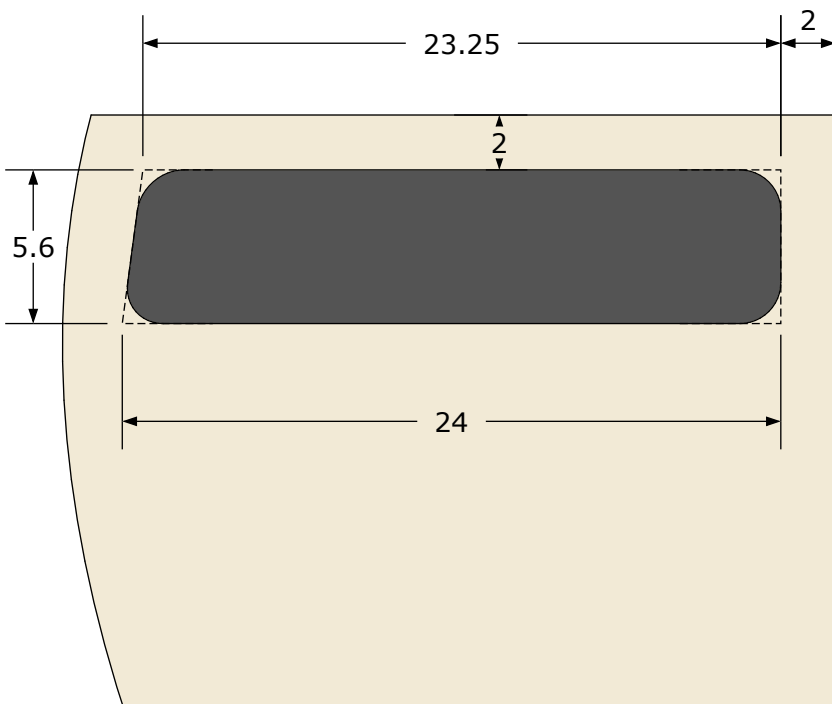
Patterns follow the curvature of the arch.



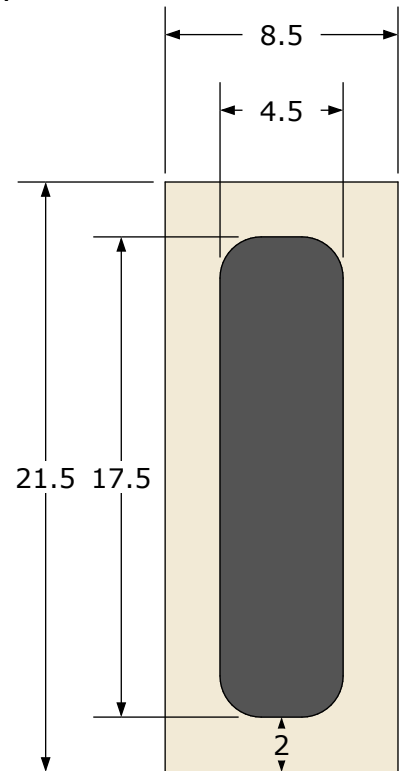
Mid Section



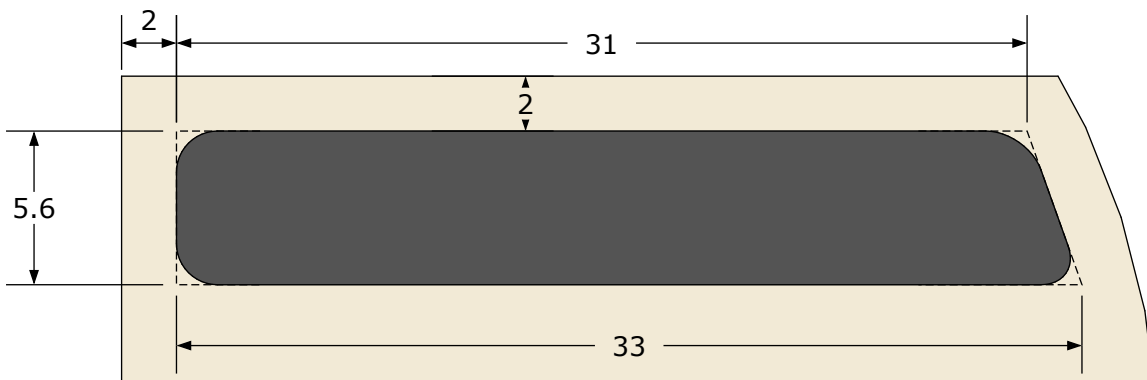
A:



B:



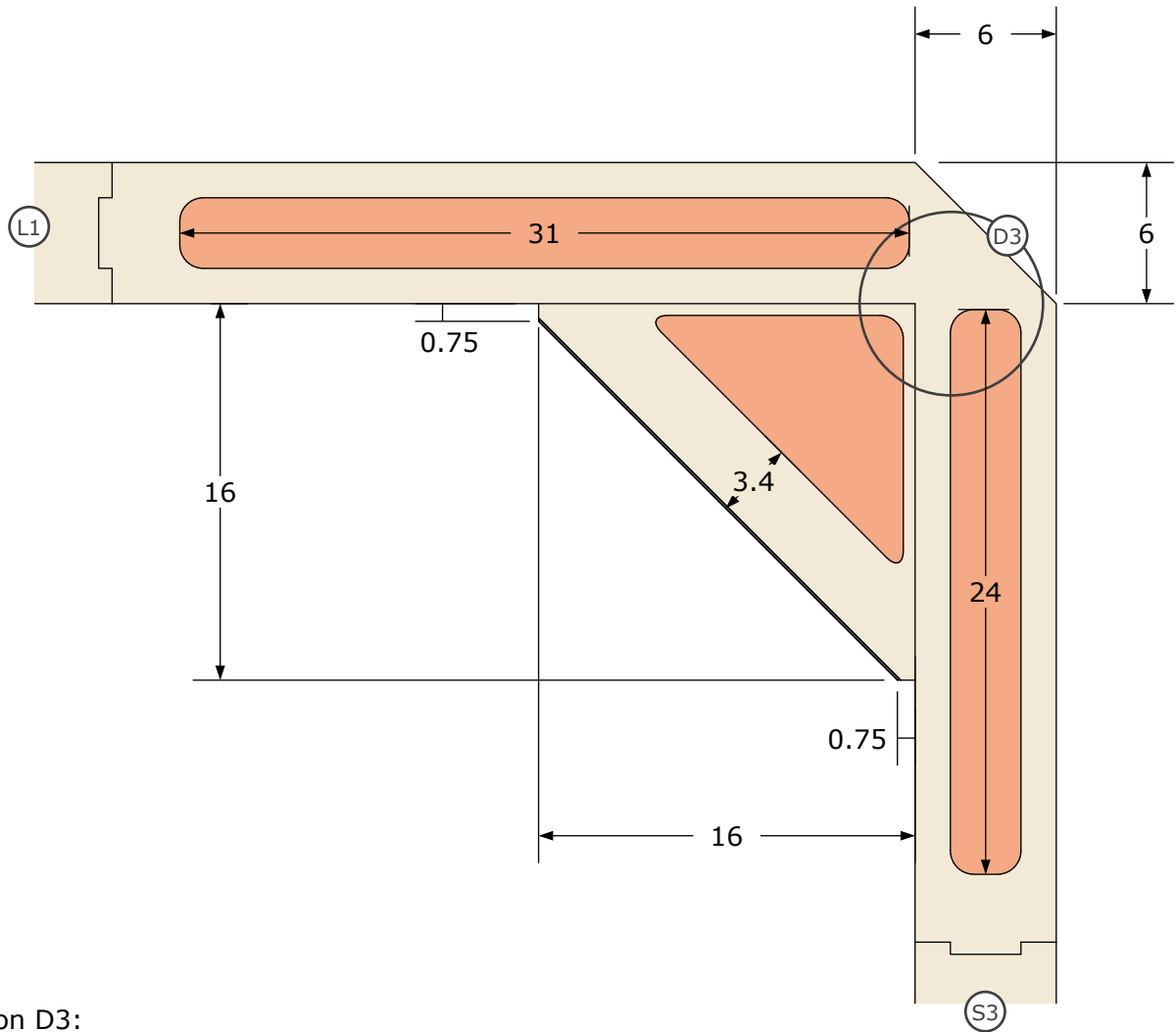
C:



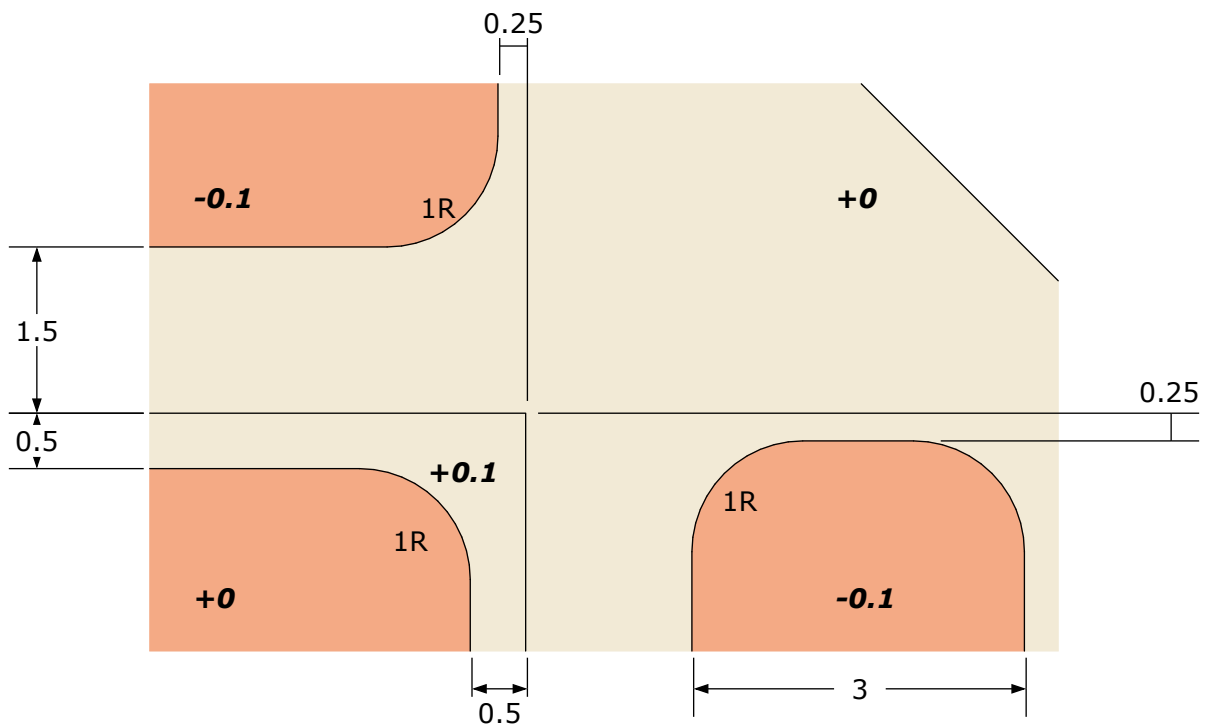
Black plexiglass panels shown each have 1.5 rounding on each corner

Shelf

D1:



Section D3:
(Relative heights in bold)

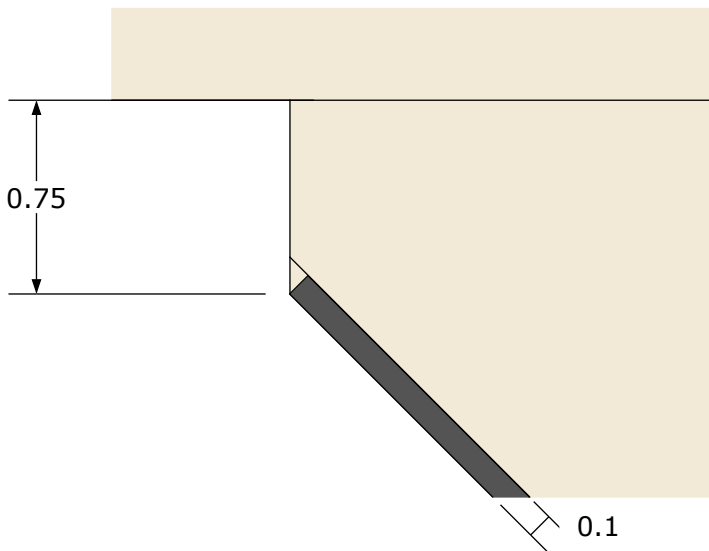
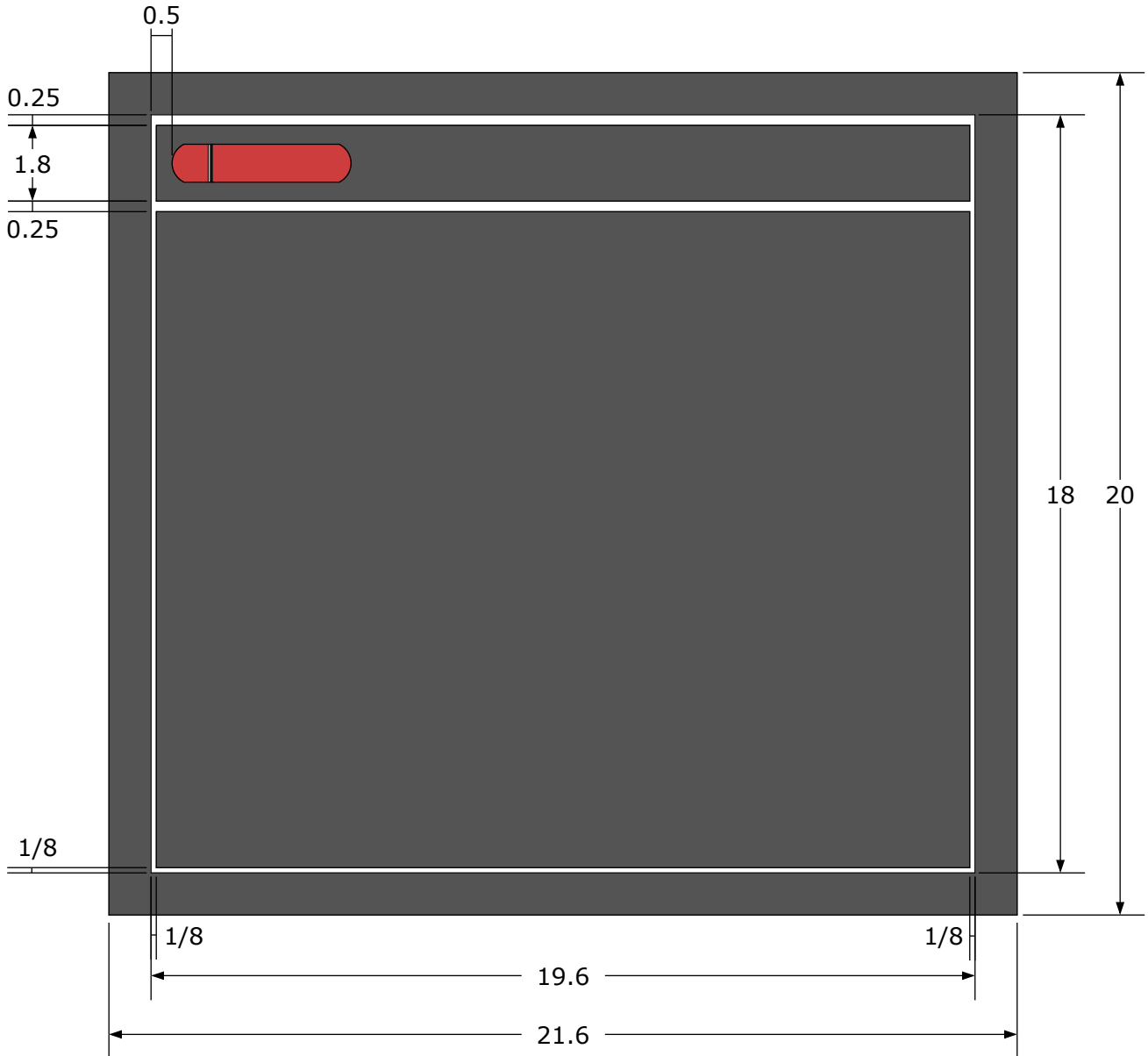


(Decimal Inches)

Front Corner Display - 4

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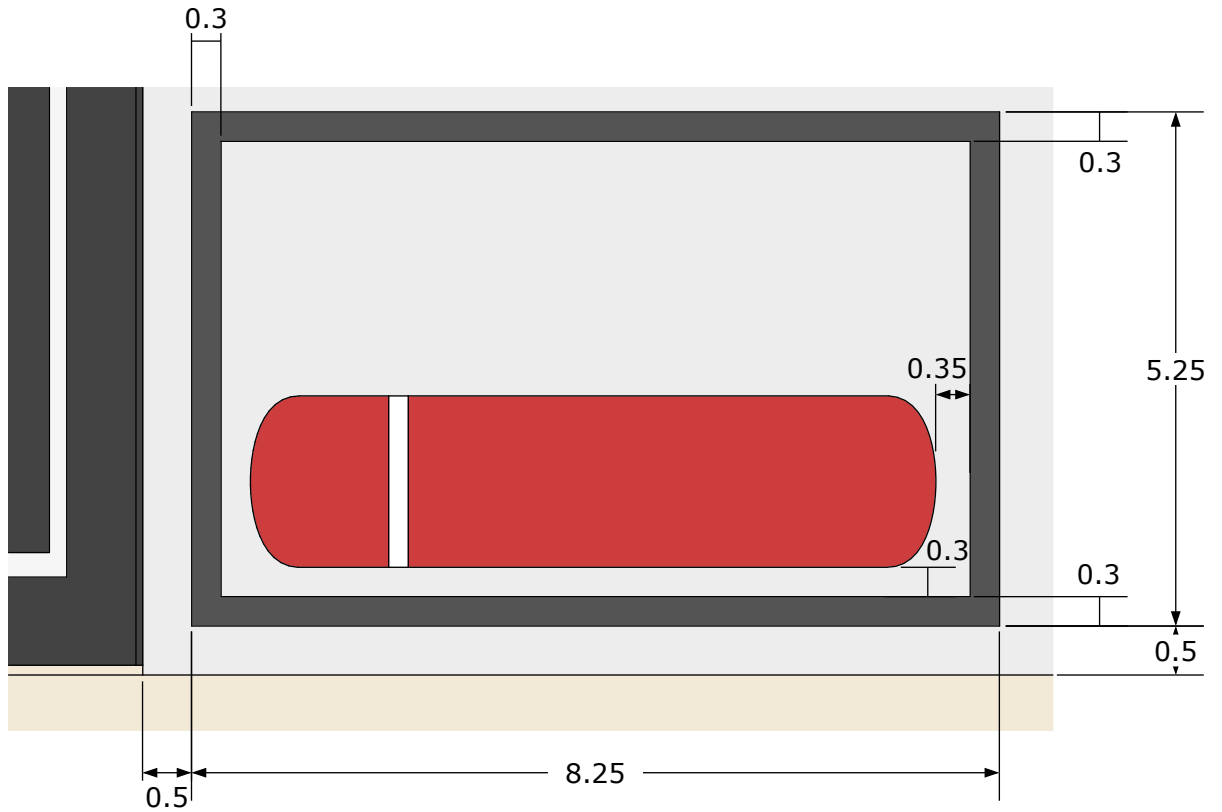
Display Screen



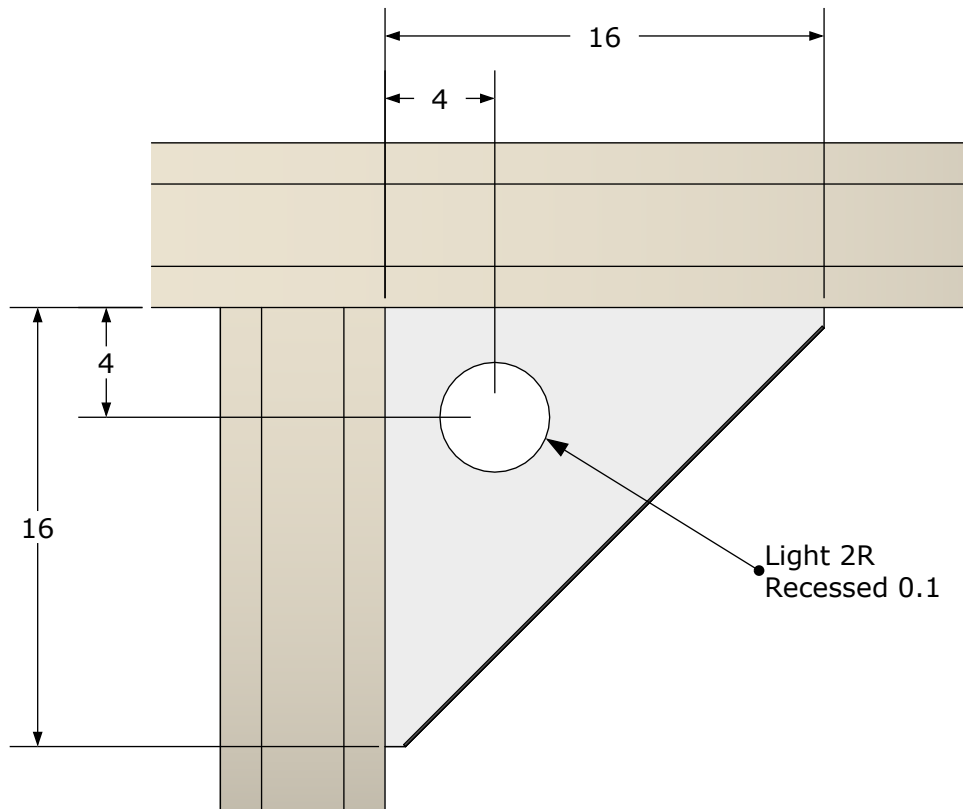
Unlike other black panels, this one is not flush with the surface it is mounted on.

A CRT screen was mounted behind the panel for motion graphics.

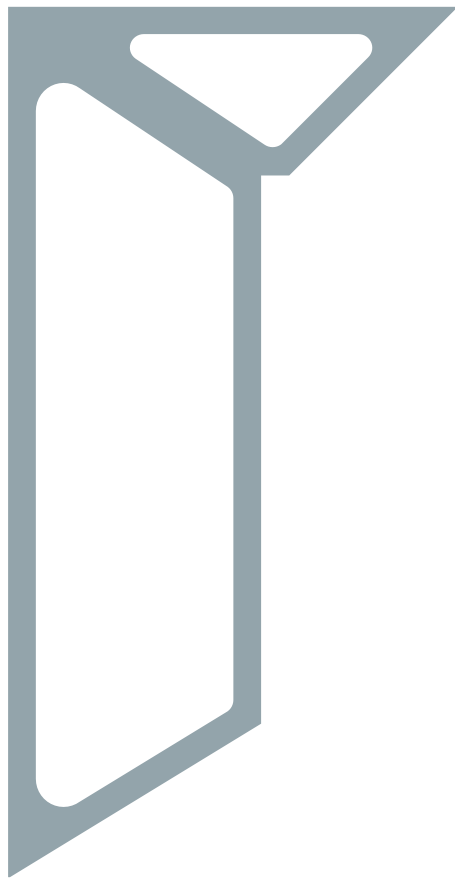
Console Detail



D2:

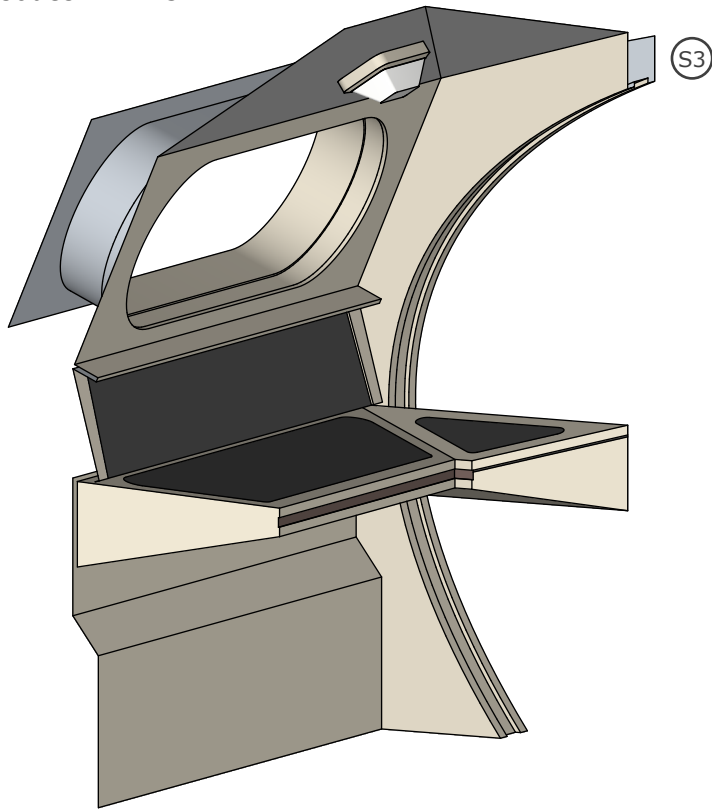


SIDE WALL



Side Wall Configurations

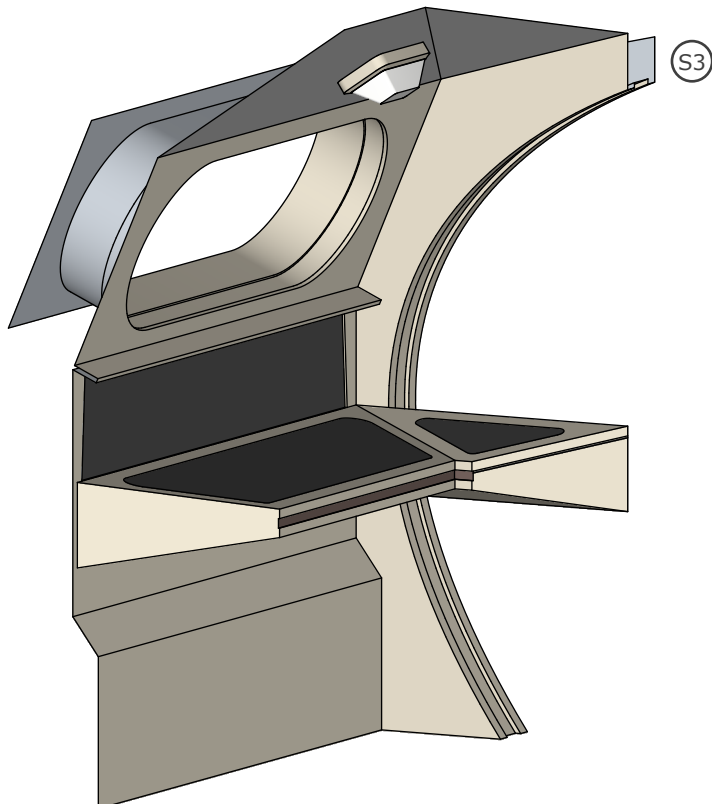
Episodes 1x1-13:



LCARS panel angled at 15 degrees

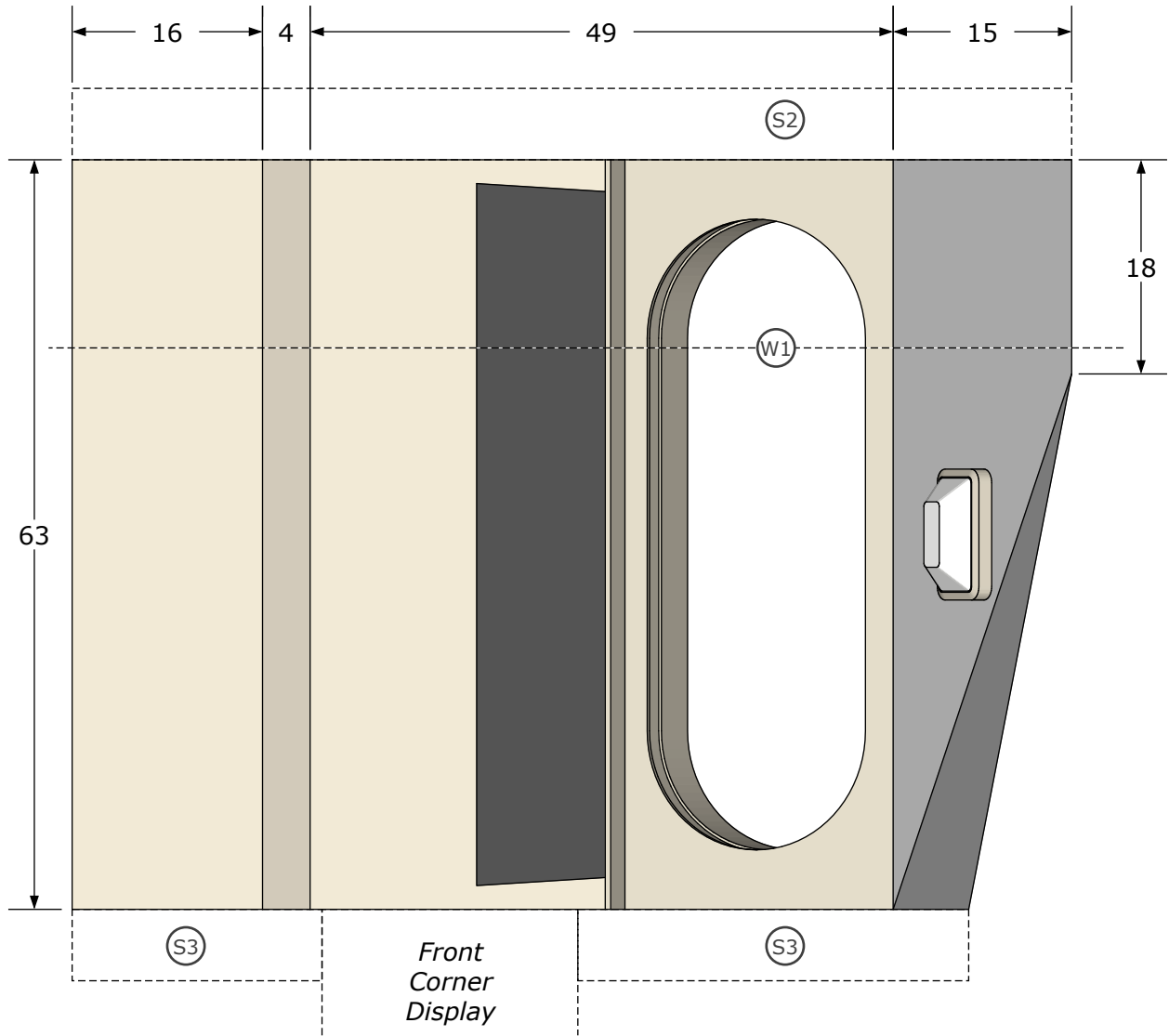
Episodes 1x14 & 15 may also have this configuration.

Episode 1x18 onwards:

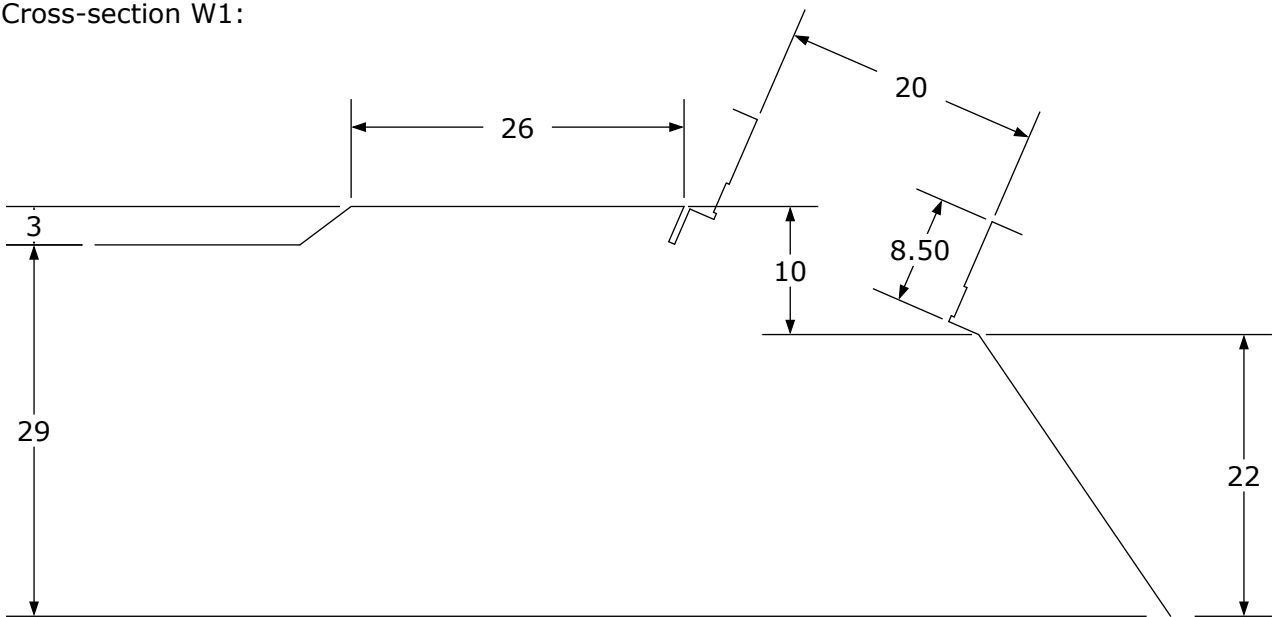


Angled LCARS panel was reorientated vertically as part of the wall.

Wall Structure

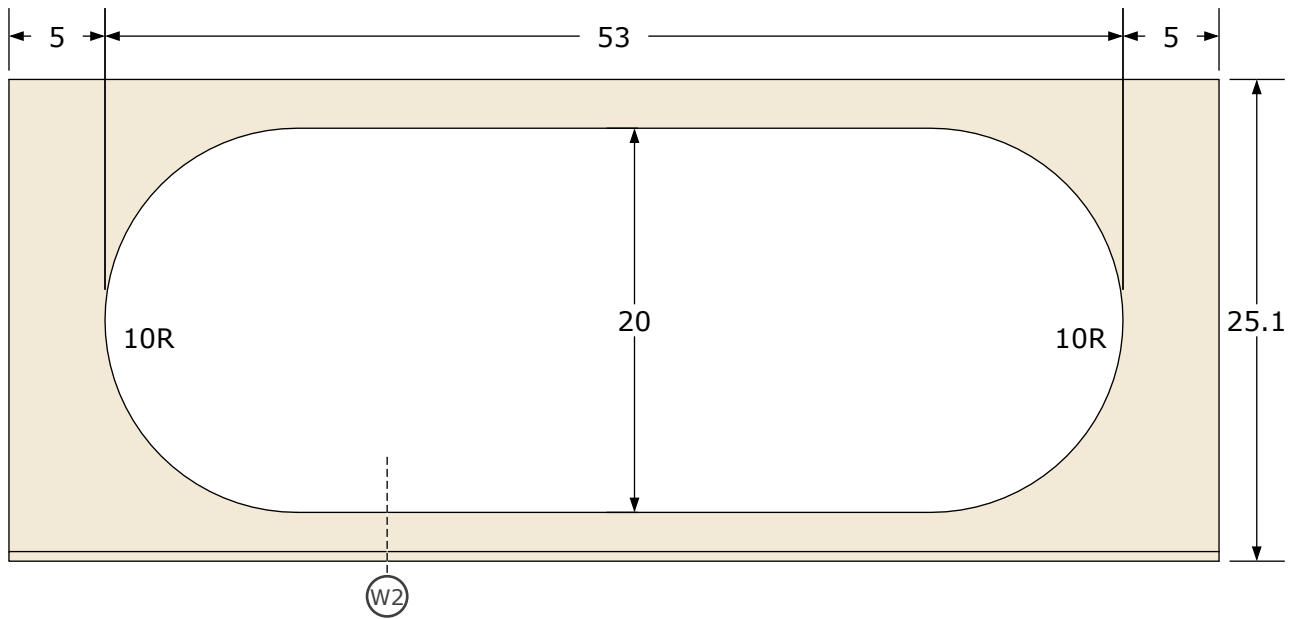


Cross-section W1:

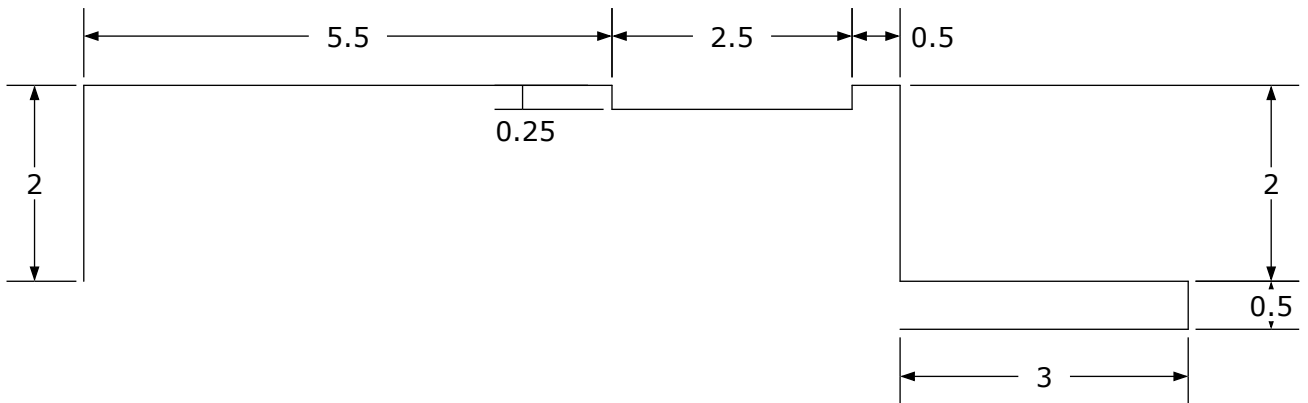


[Vertical→]

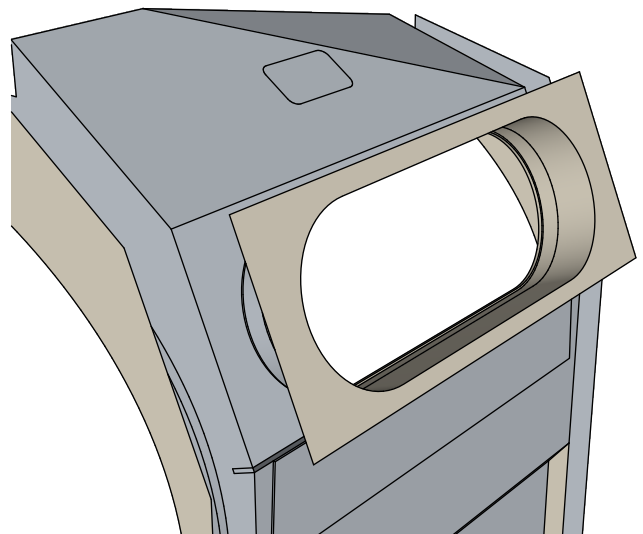
Window



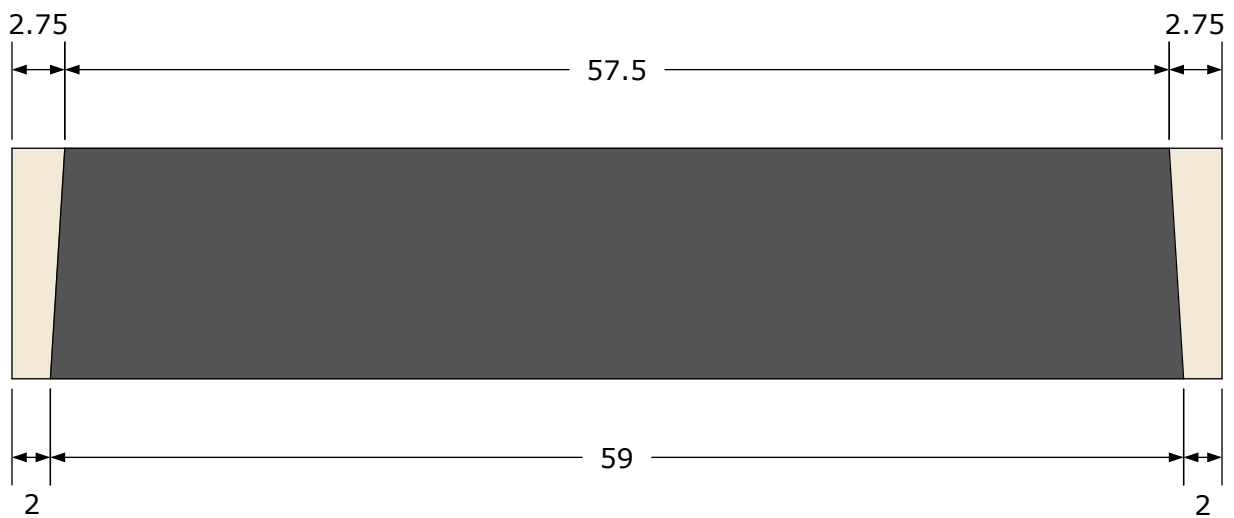
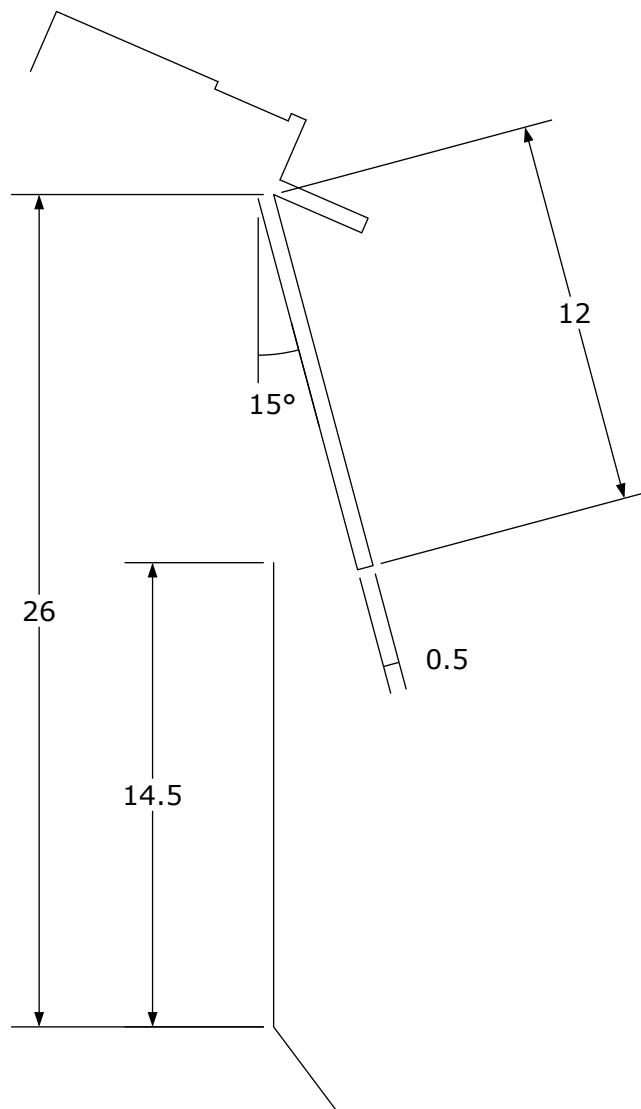
Cross-section W2:



External window surround is the same size as interior window panel.

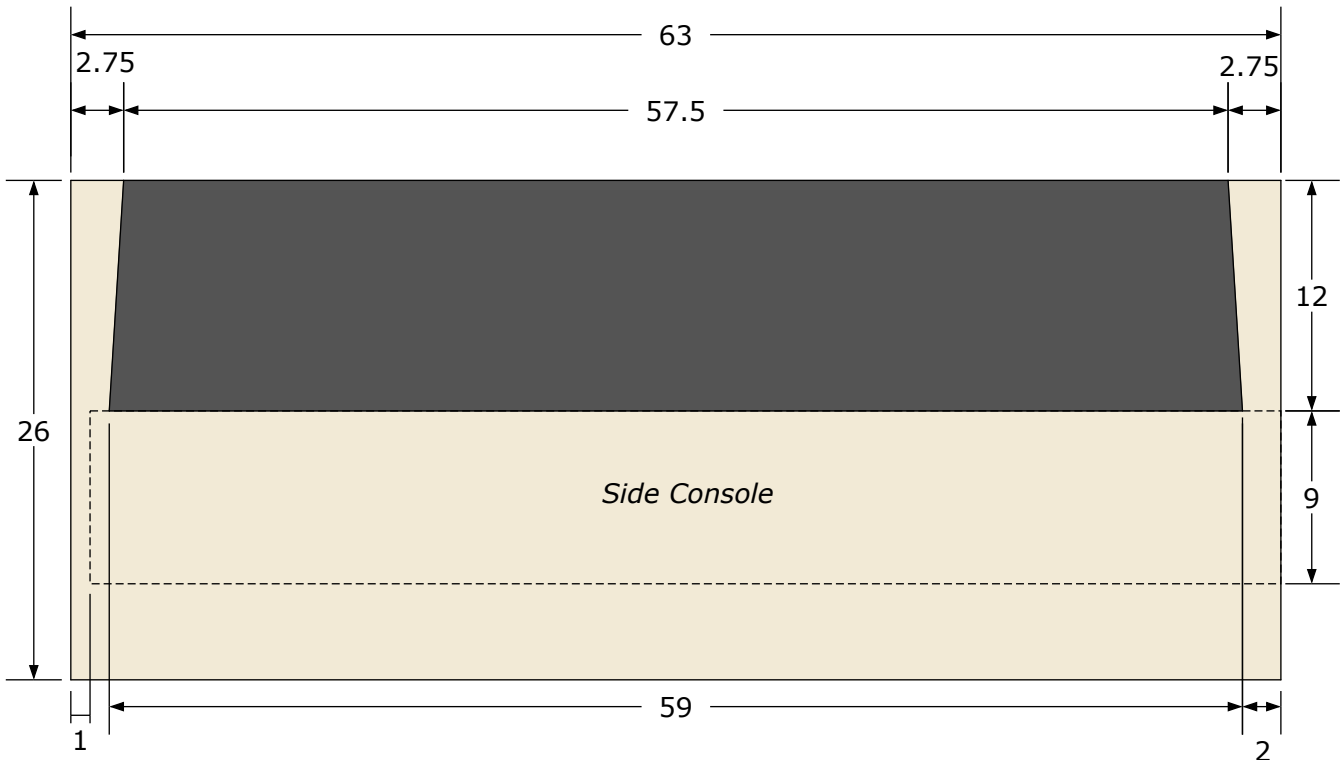


Angled Display



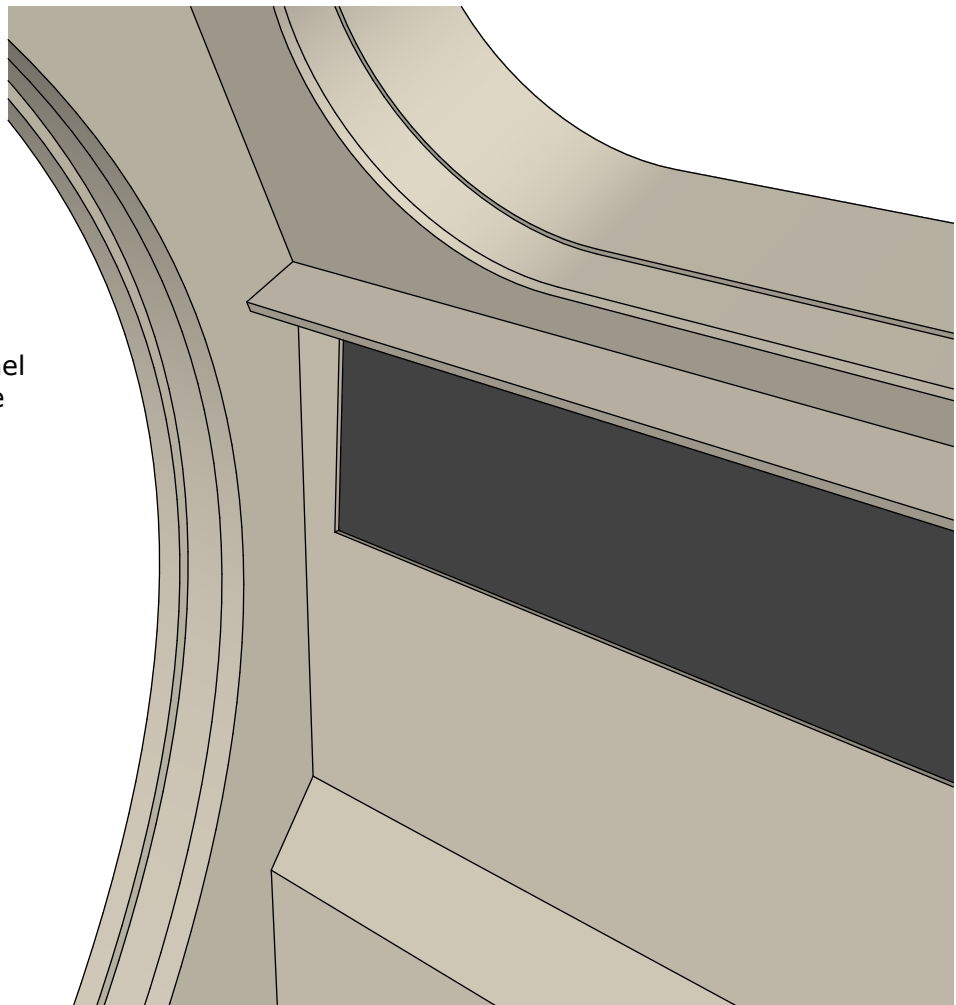
Angled panel is 0.5 deep, with LCARS inset 0.25

Vertical Display

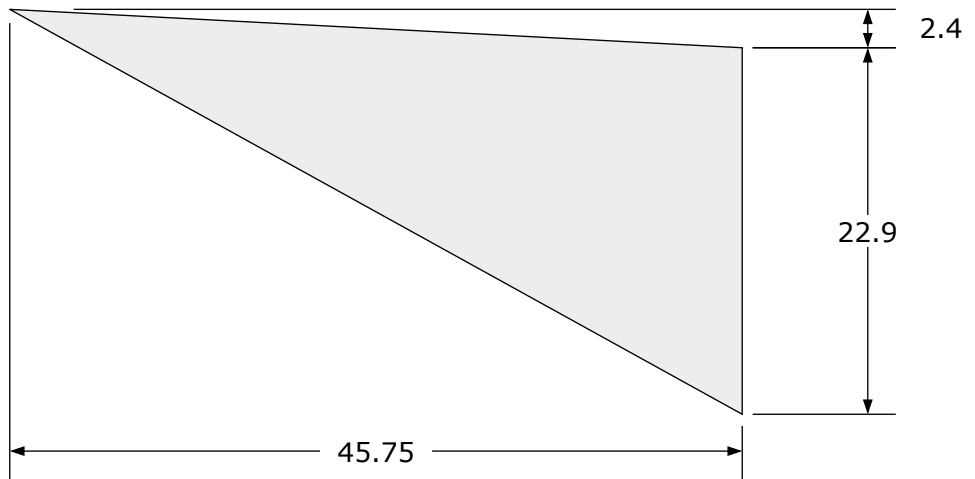
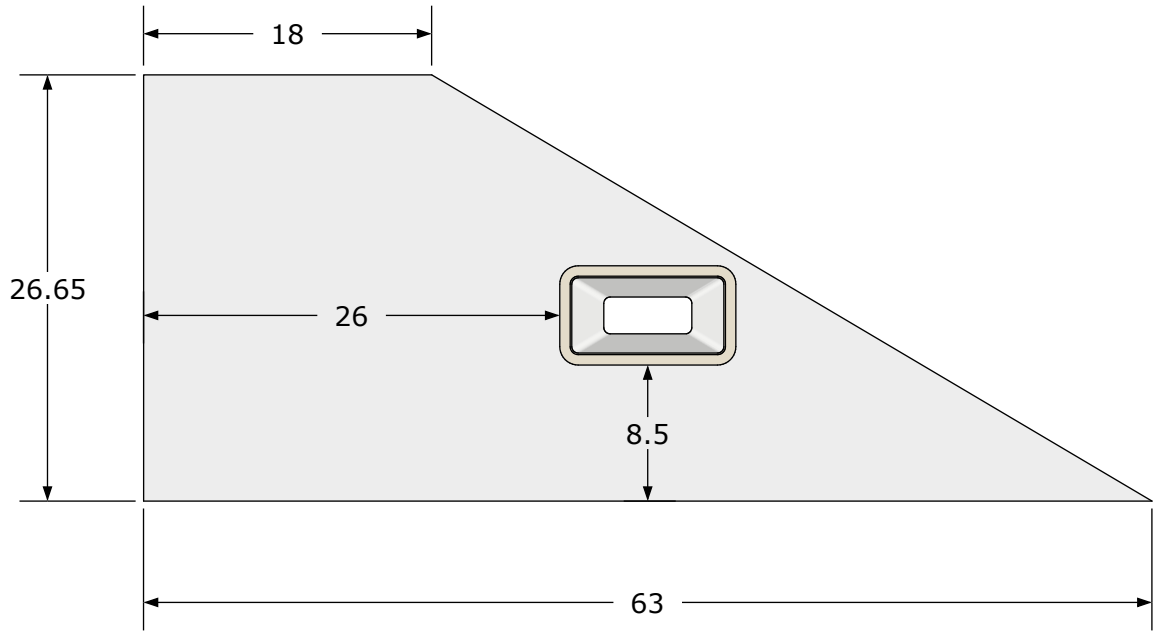


Panel is inset 0.25

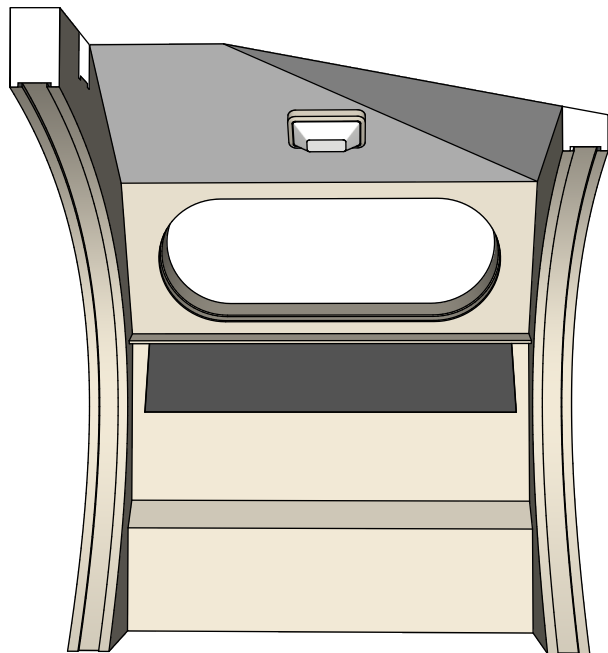
The top of the inset panel is often obscured by the overhang strip (see Window)



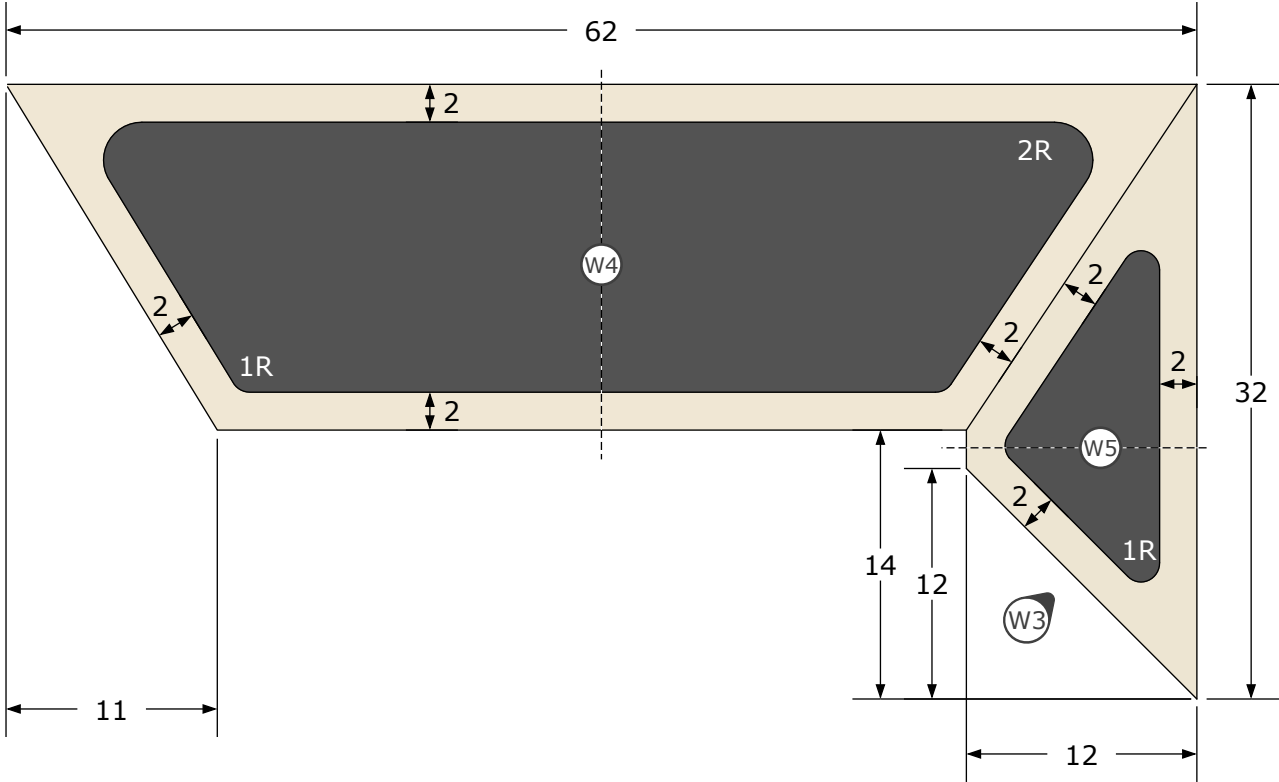
Side Ceiling



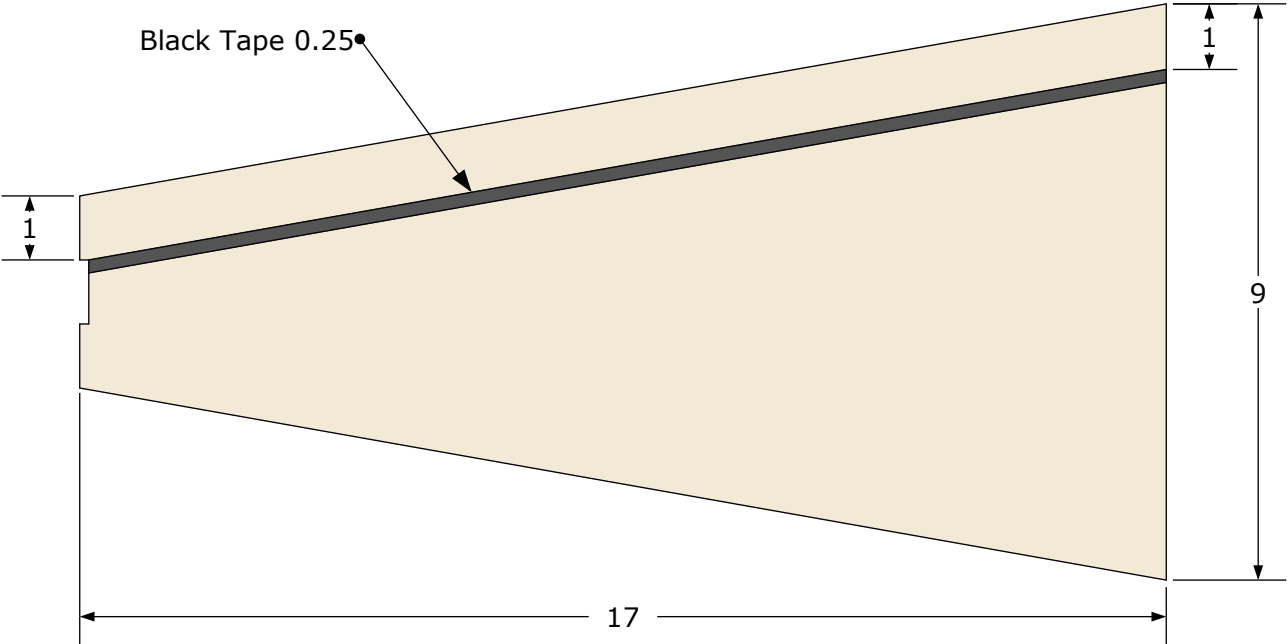
The bend in the side ceiling section follows the bend in arch L1.



Side Console

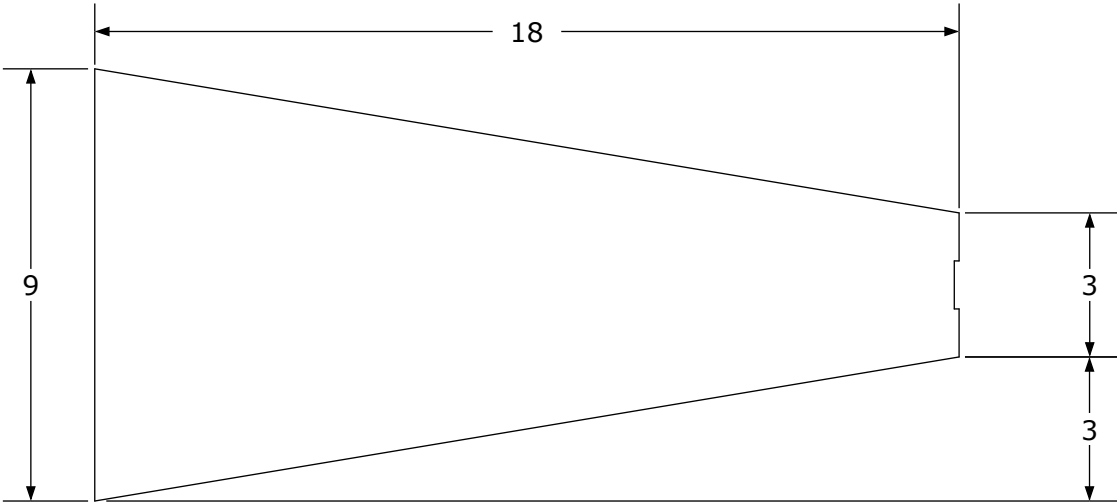


W3:

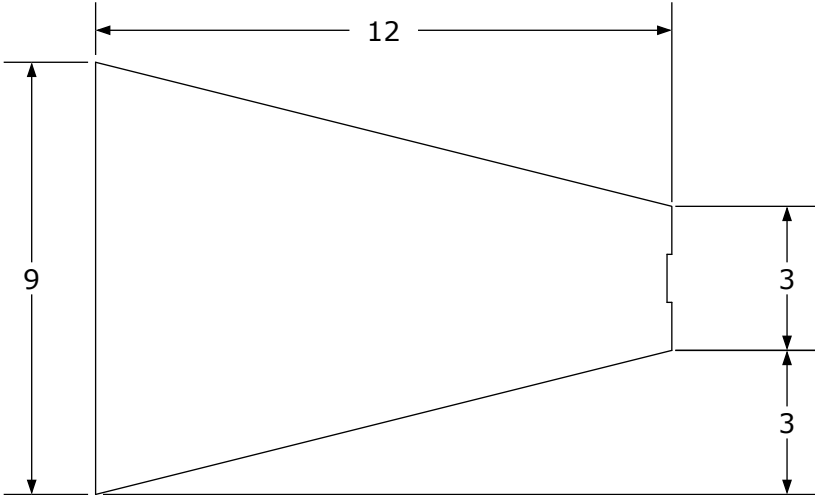


Side Console

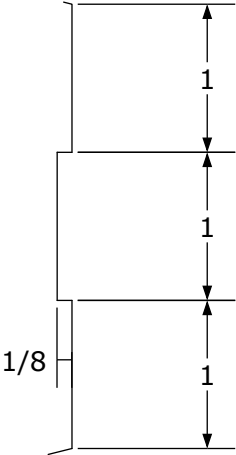
W4:



W5:



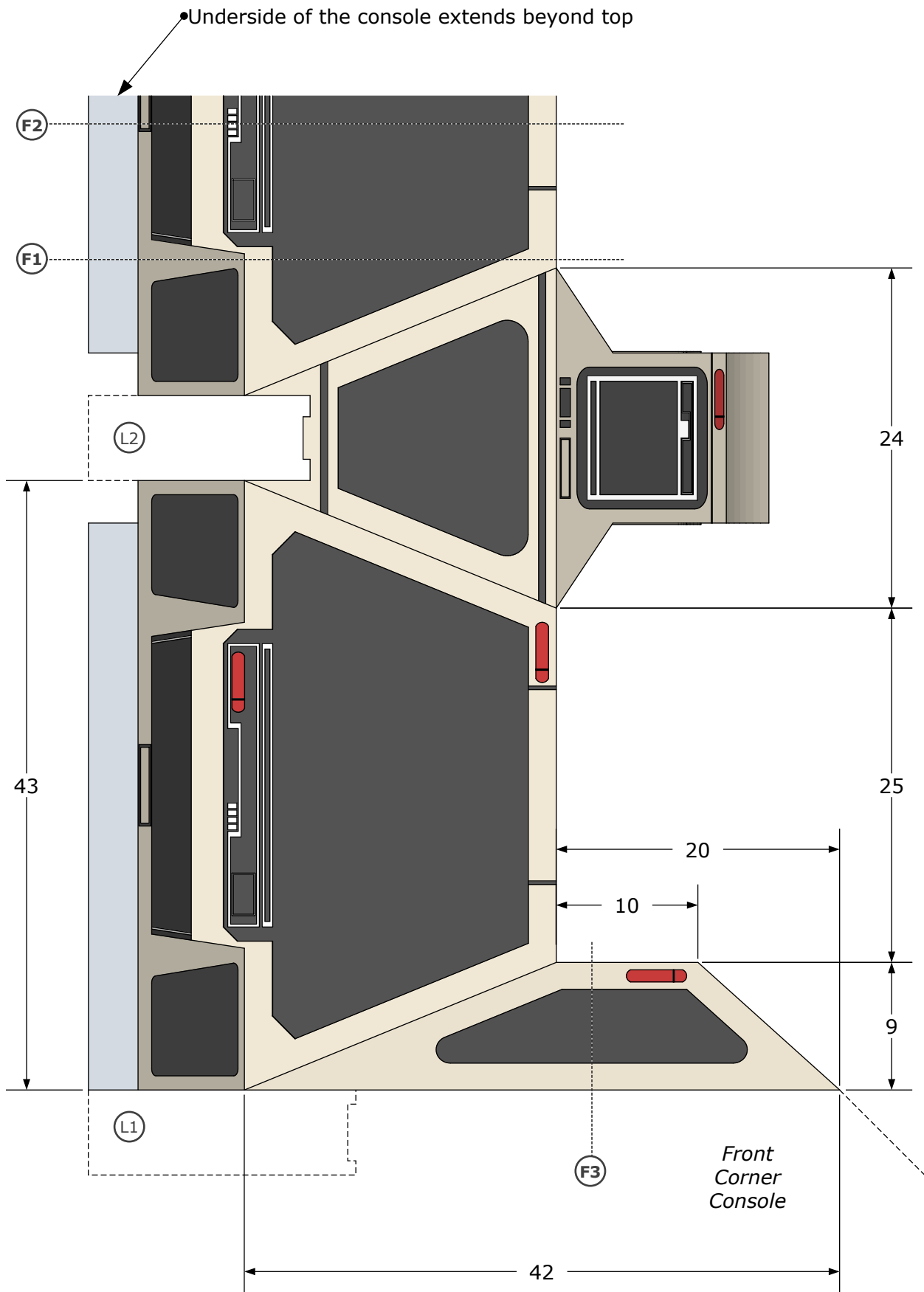
W4 & W5 Edge Closeup:



FRONT SECTION

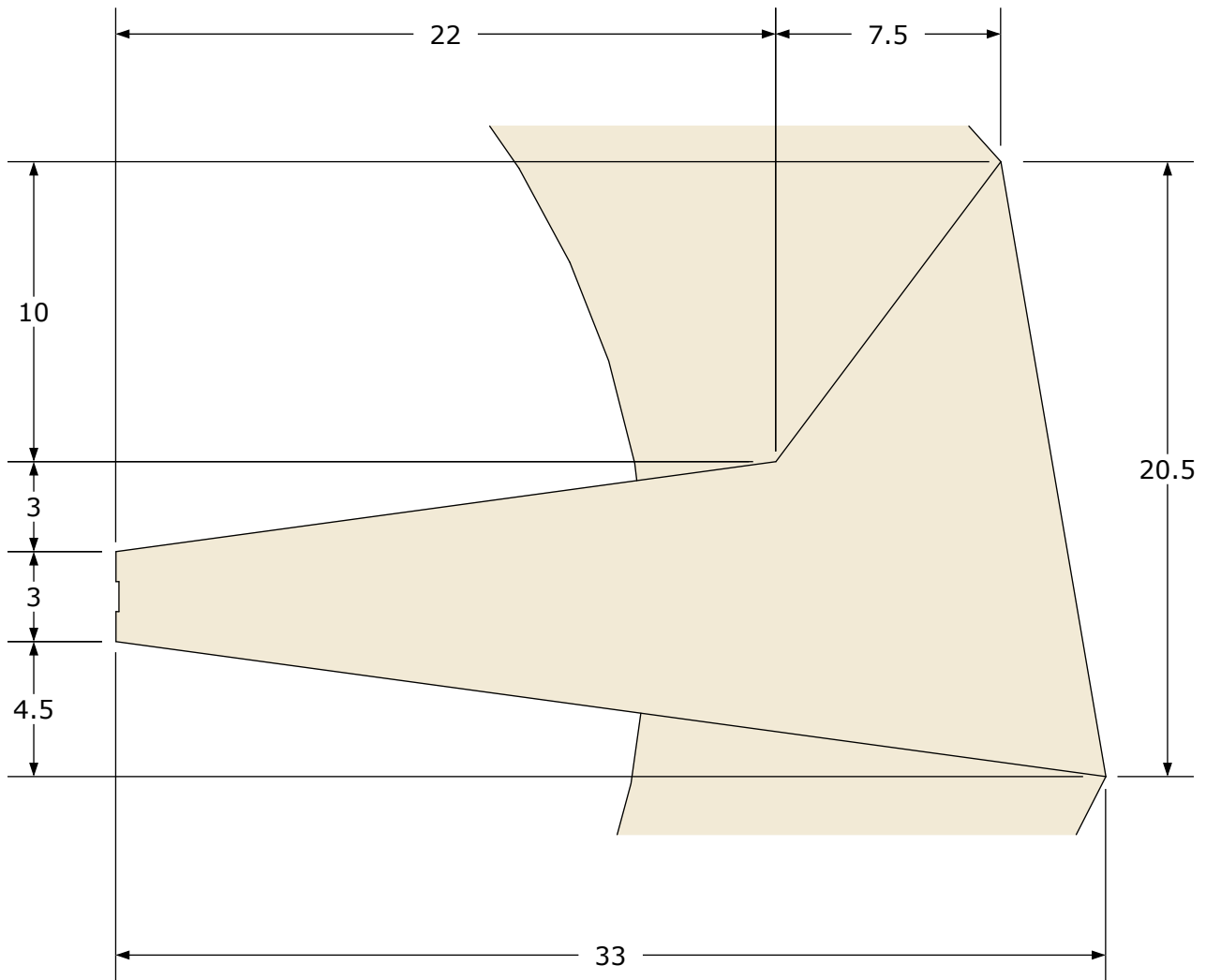


Console Overview

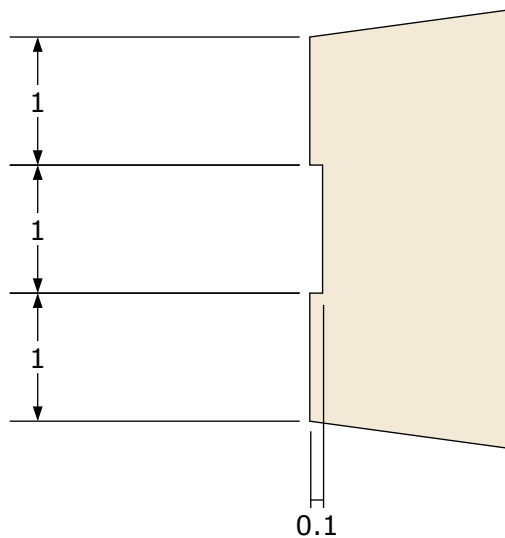


Console Cross-Section

F1:

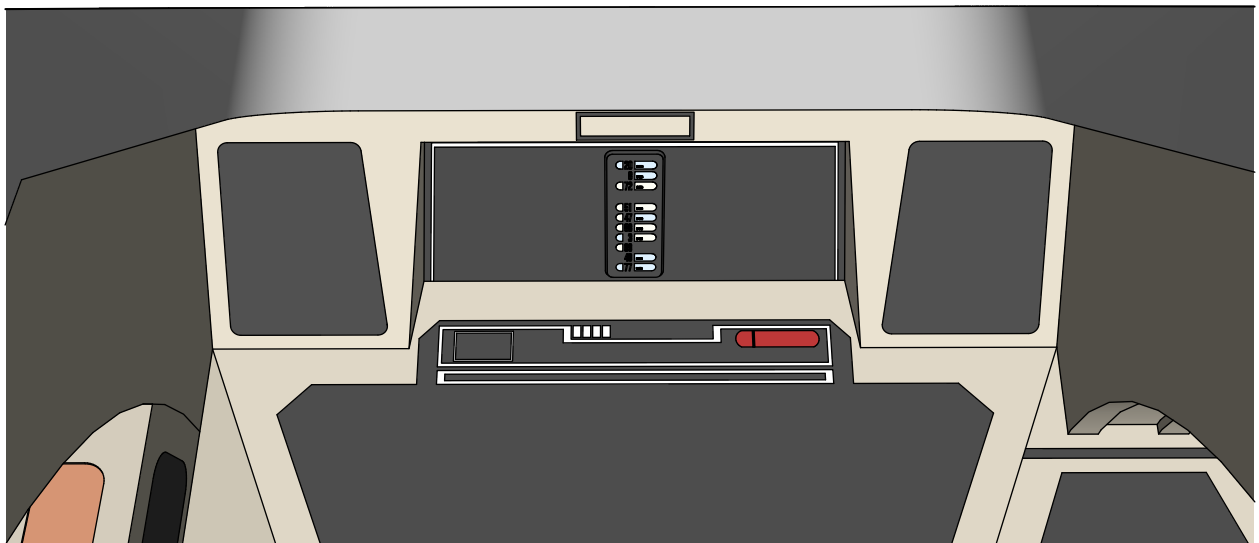
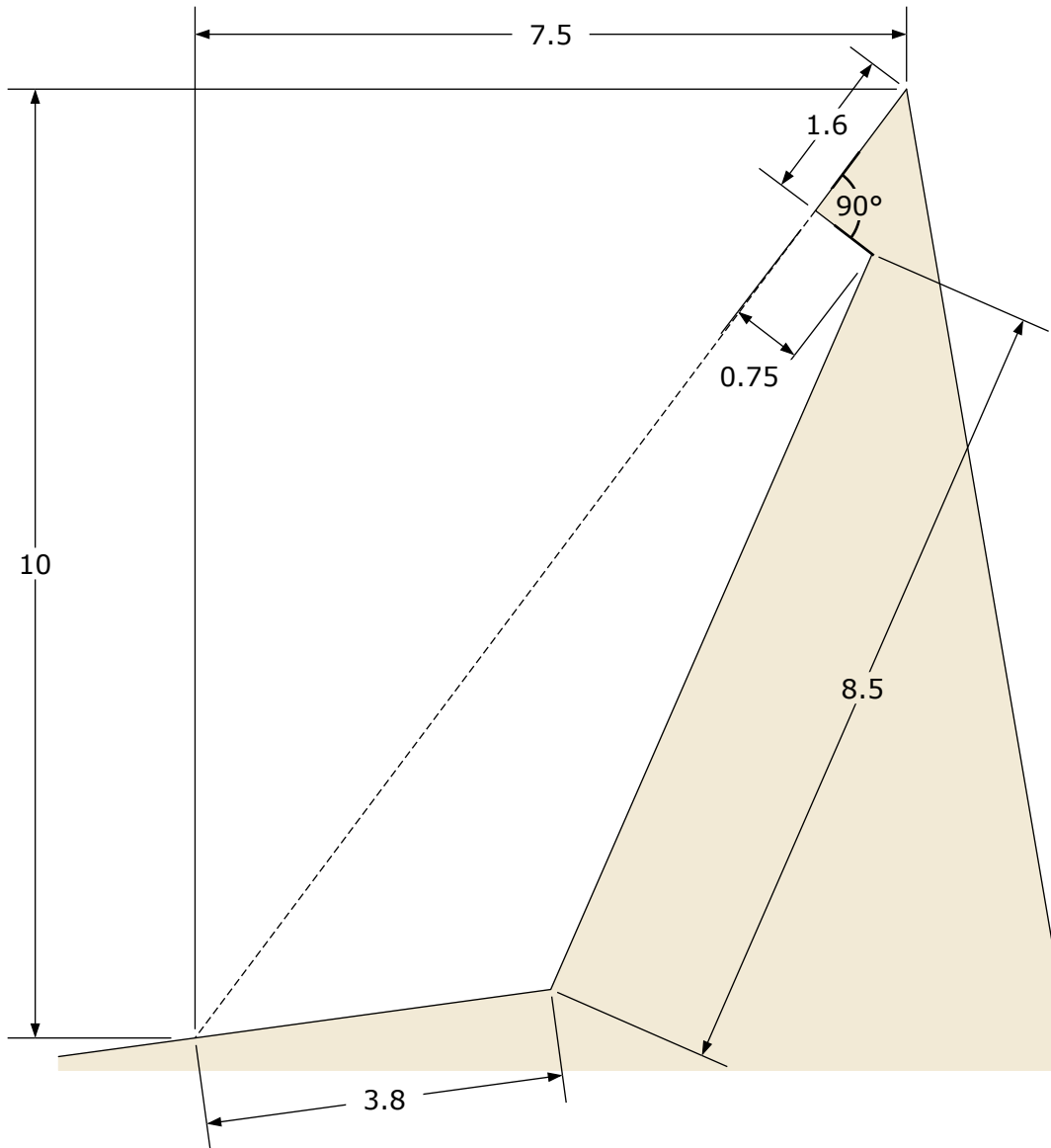


Closeup of front edge:

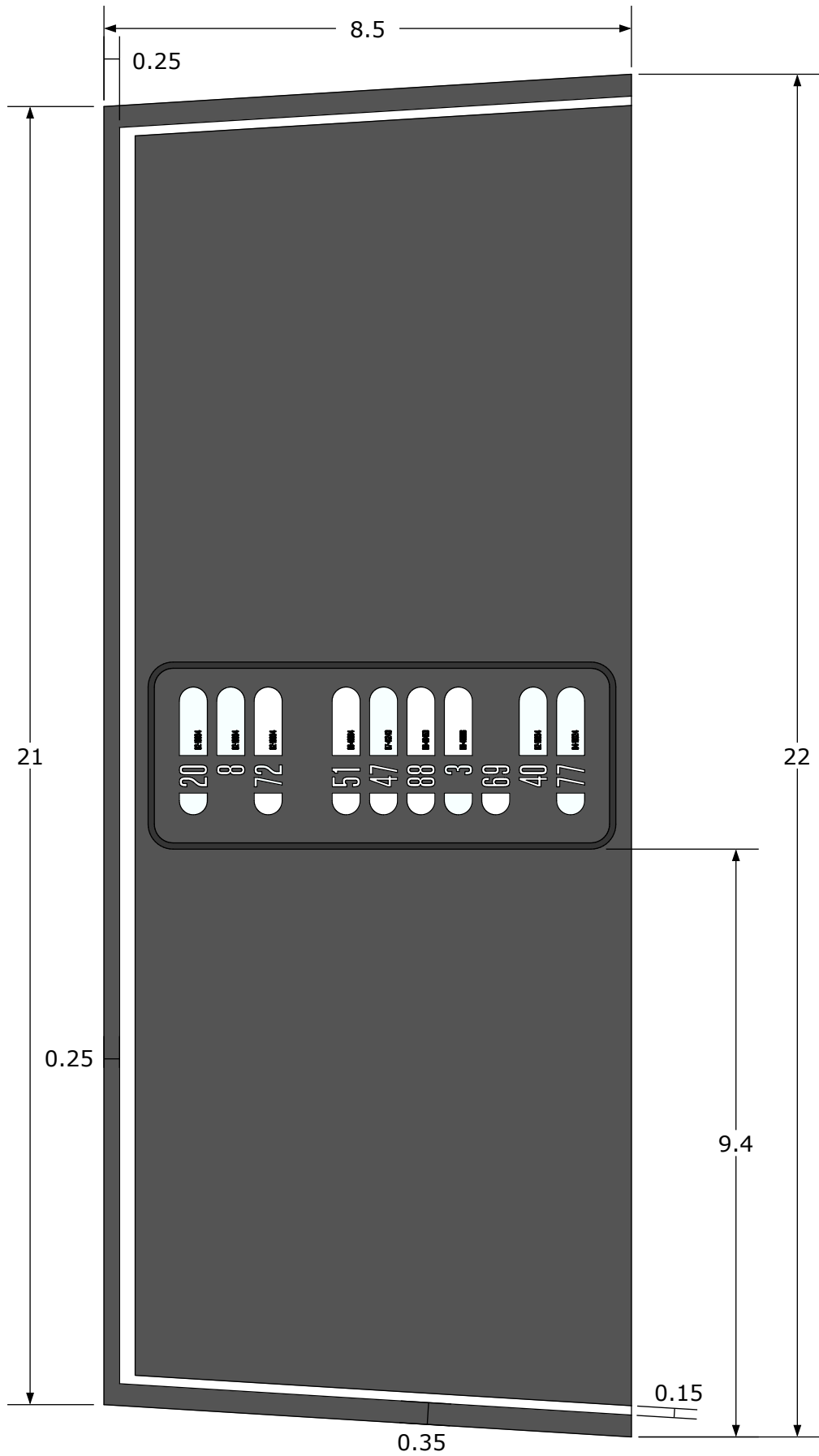


Console Inset

F2:

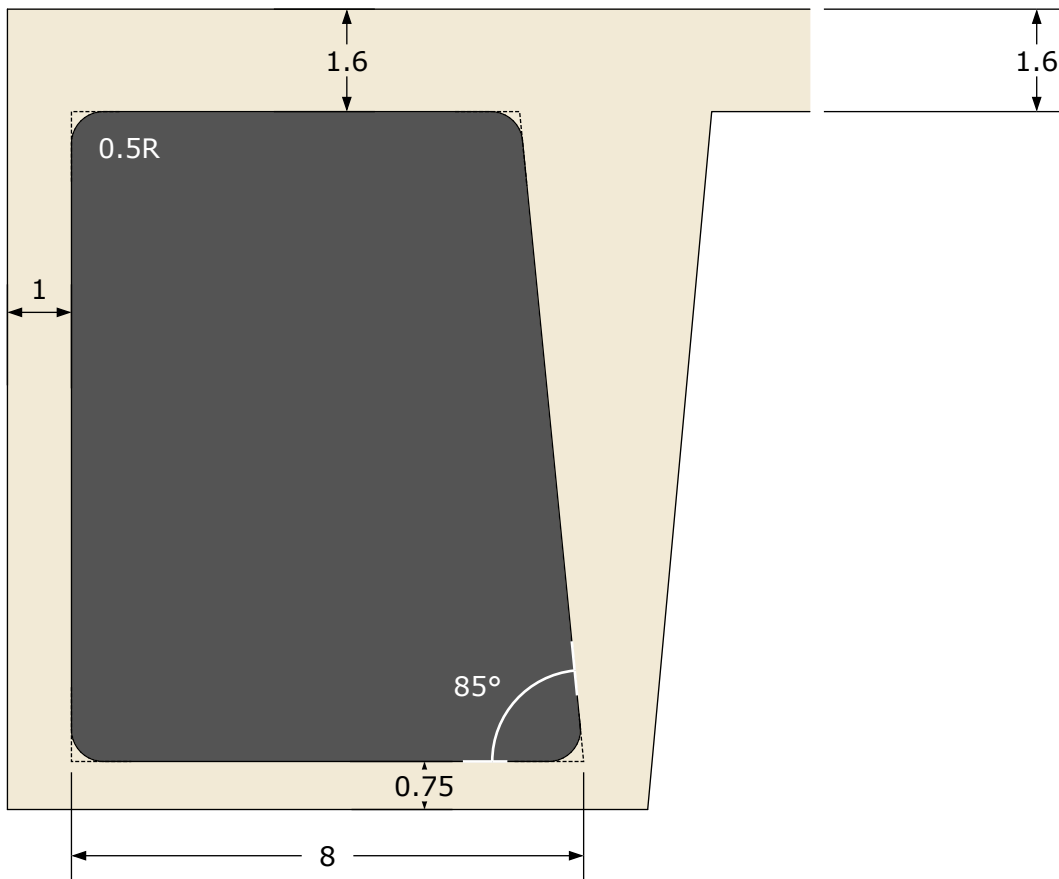
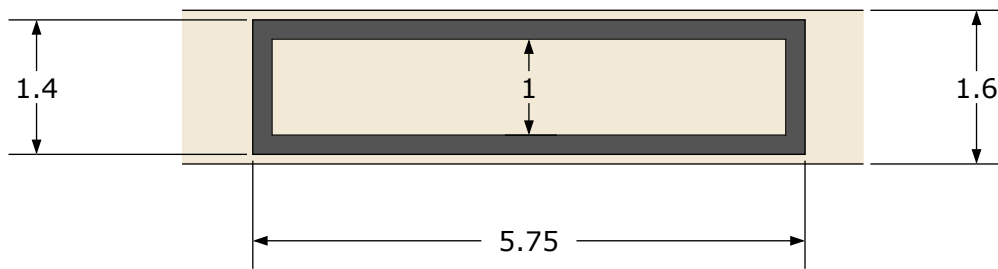
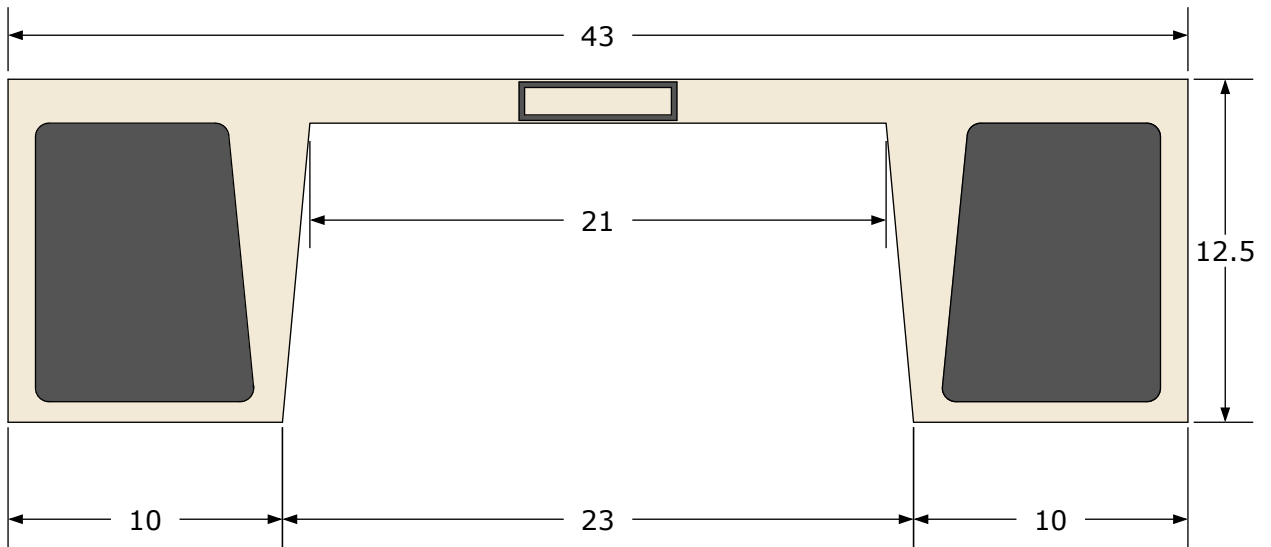


Inset Display

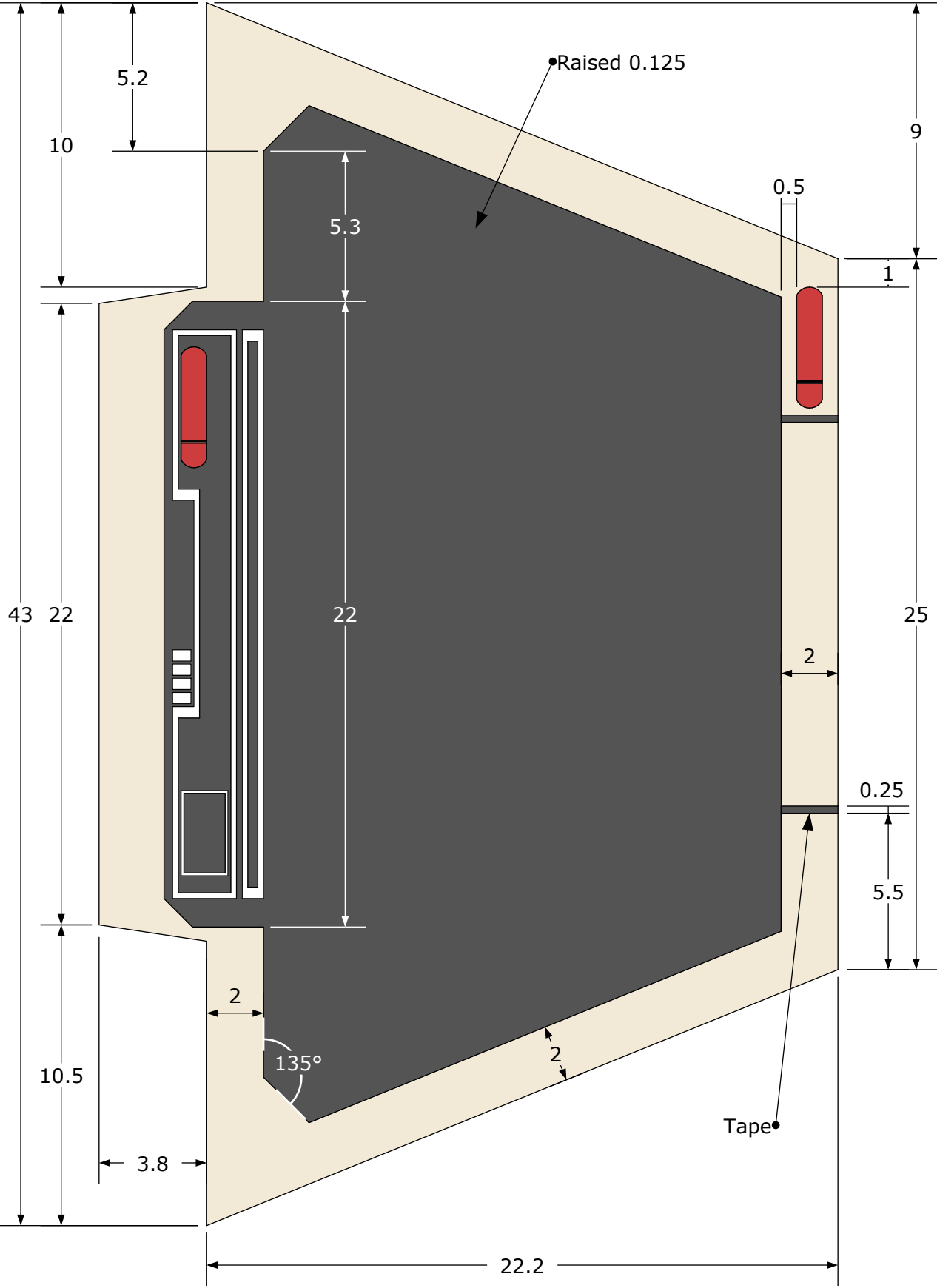


Central control panel is variant B (see Set Dressing)

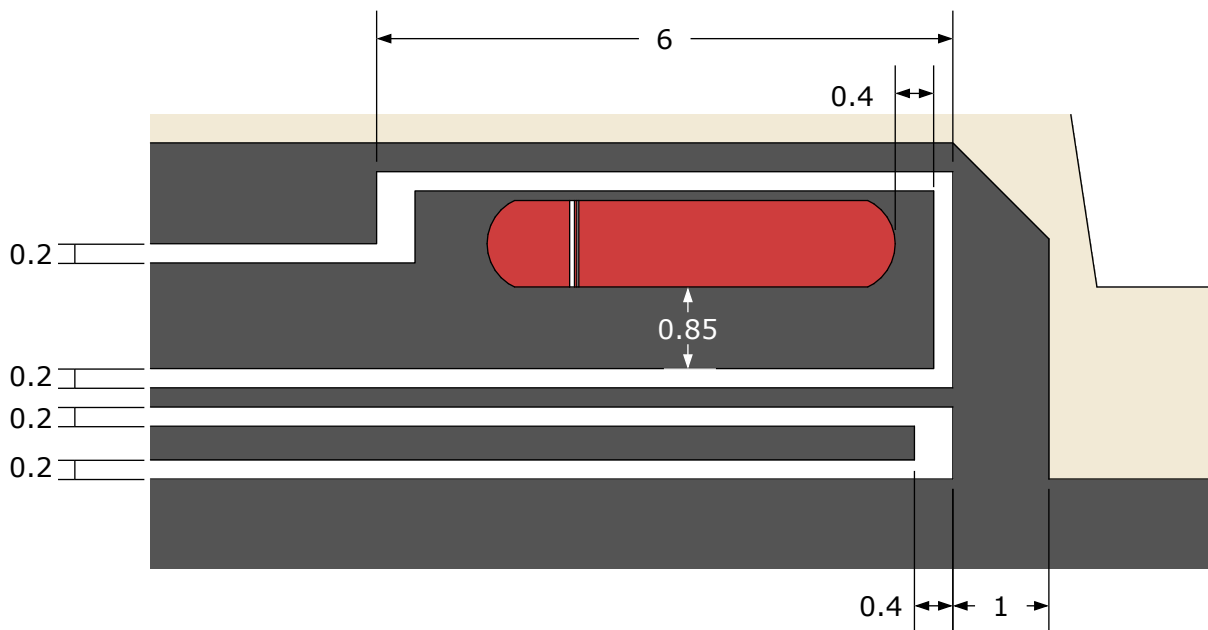
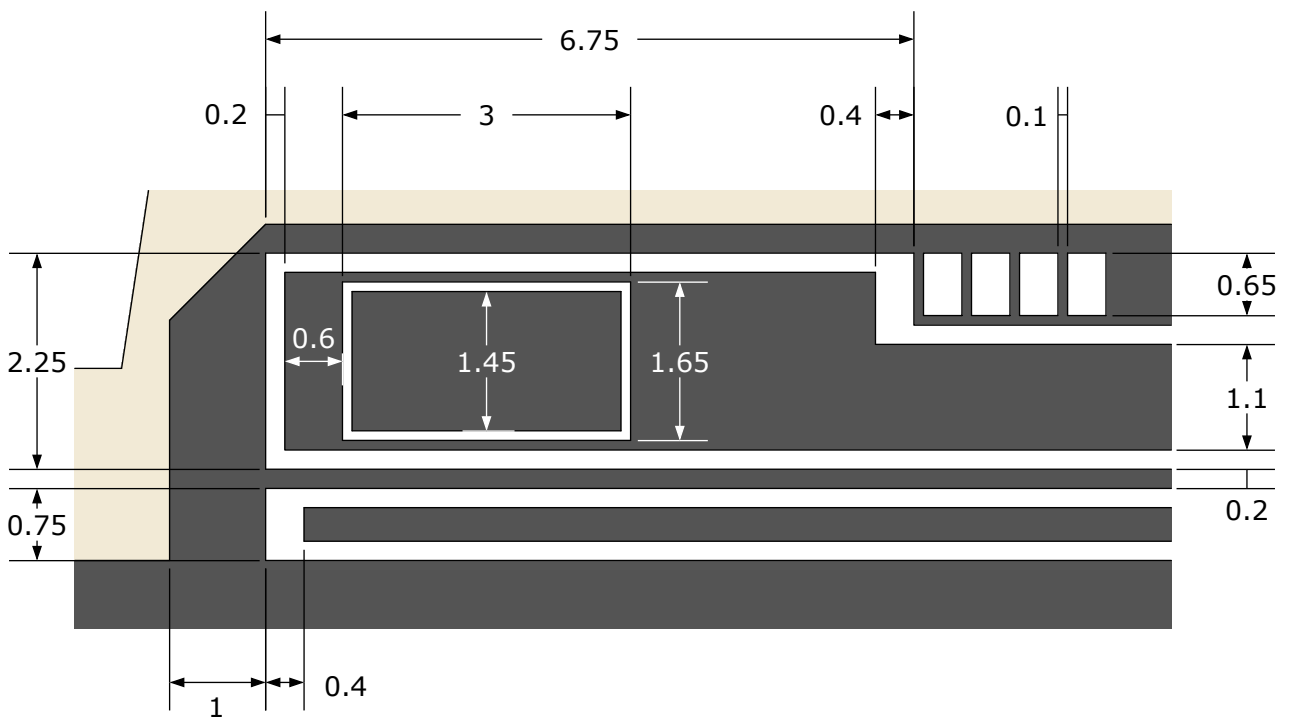
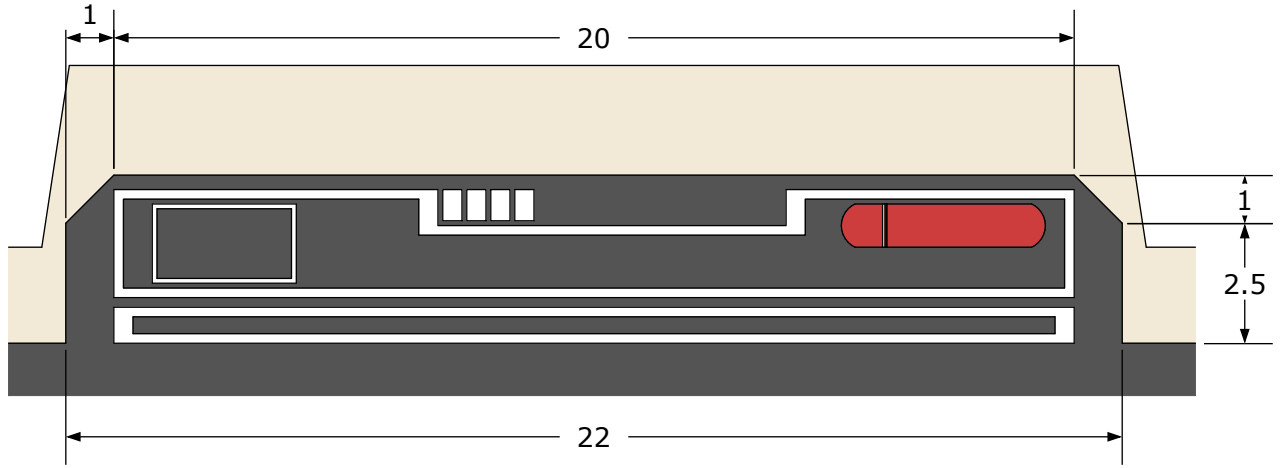
Inset Surround



Console Panel

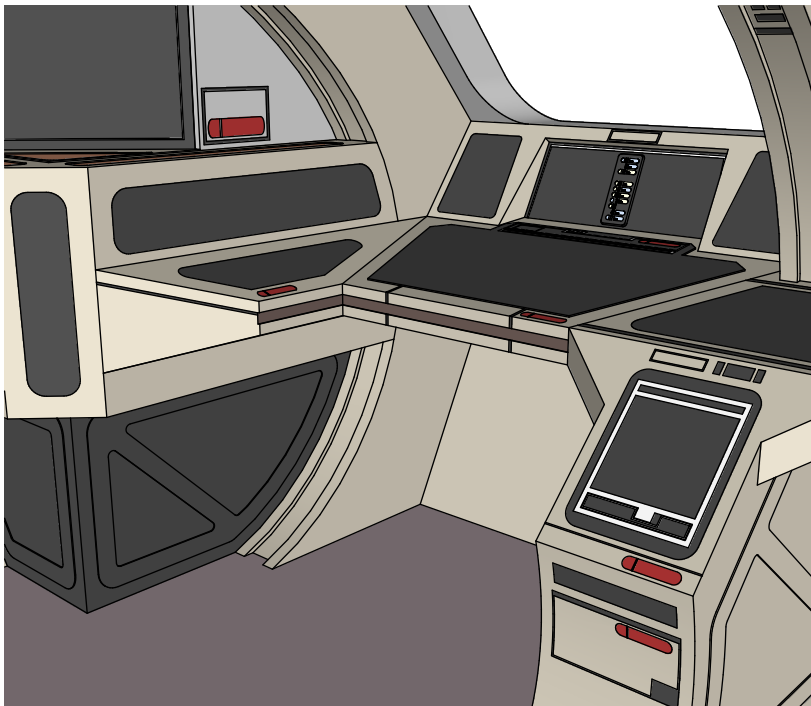
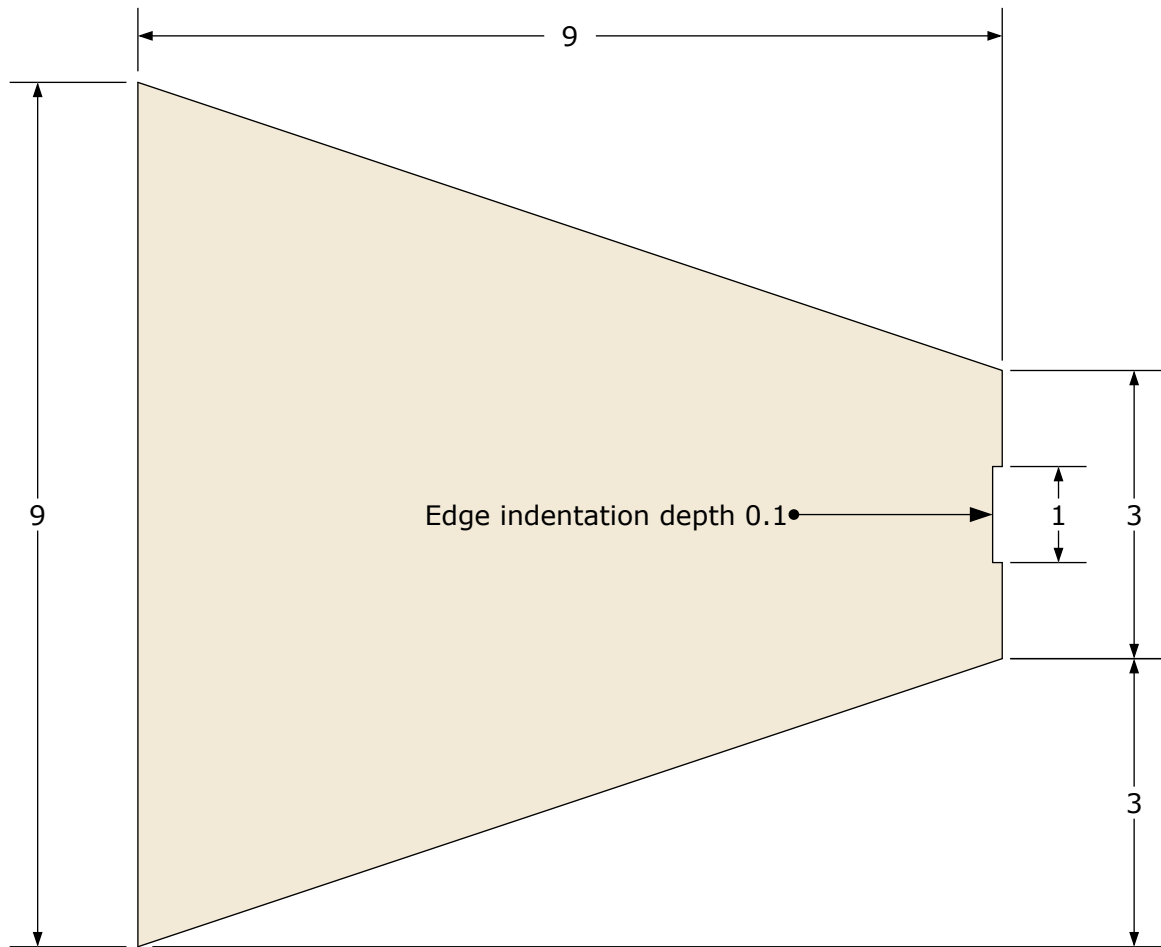


Panel Detail



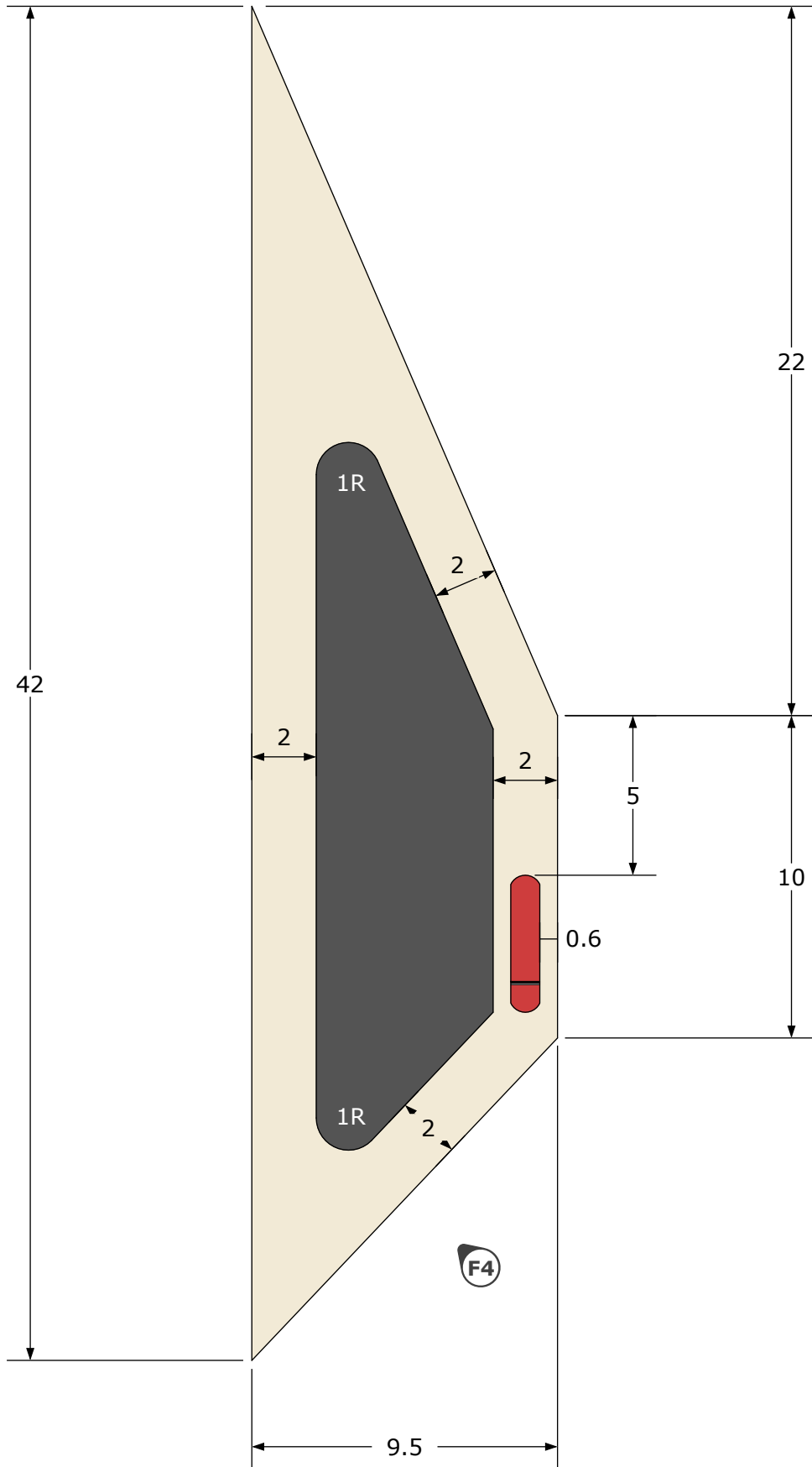
Ancillary Console

F3:



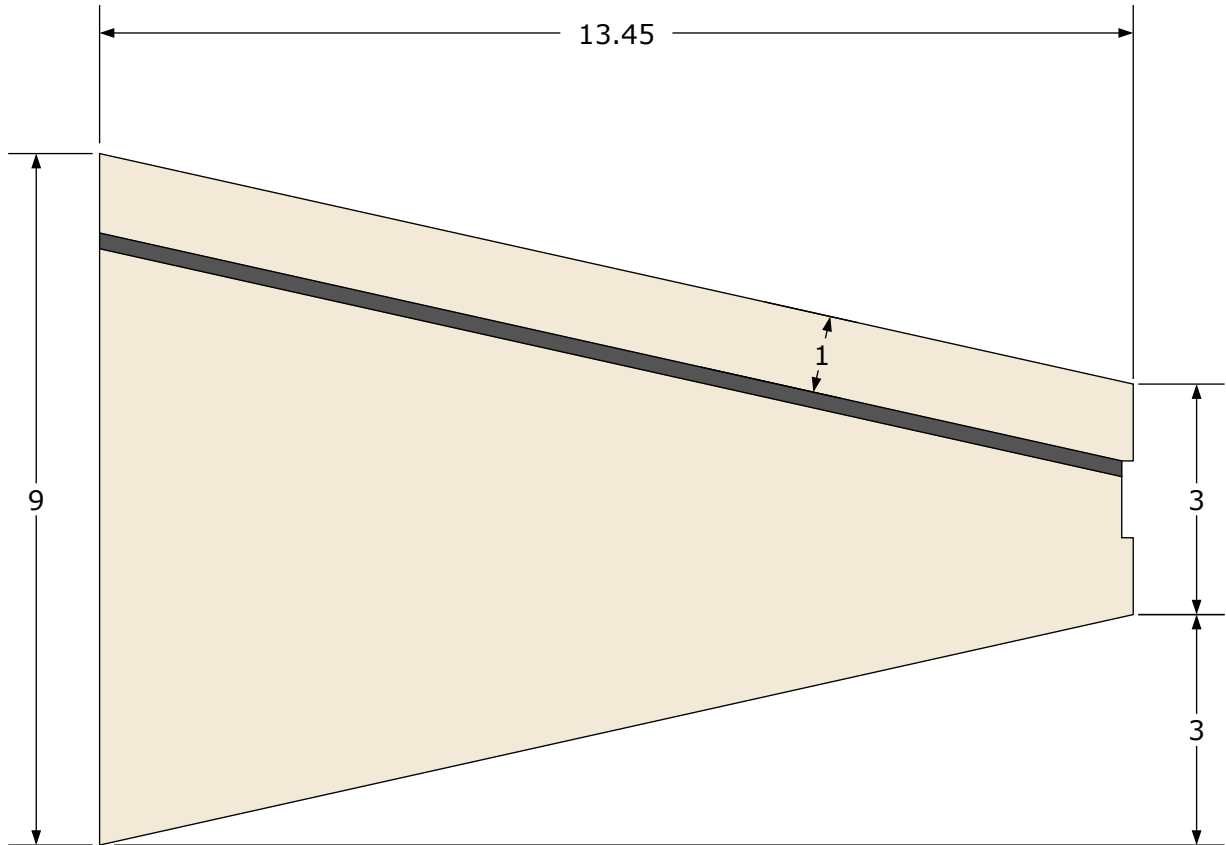
Both front, ancillary and side consoles edge indentations are coloured brown.

Ancillary Console



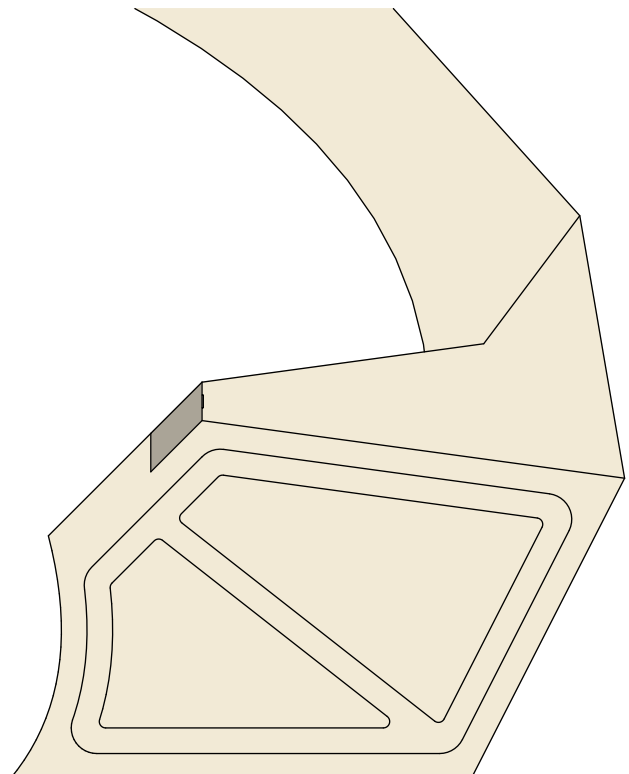
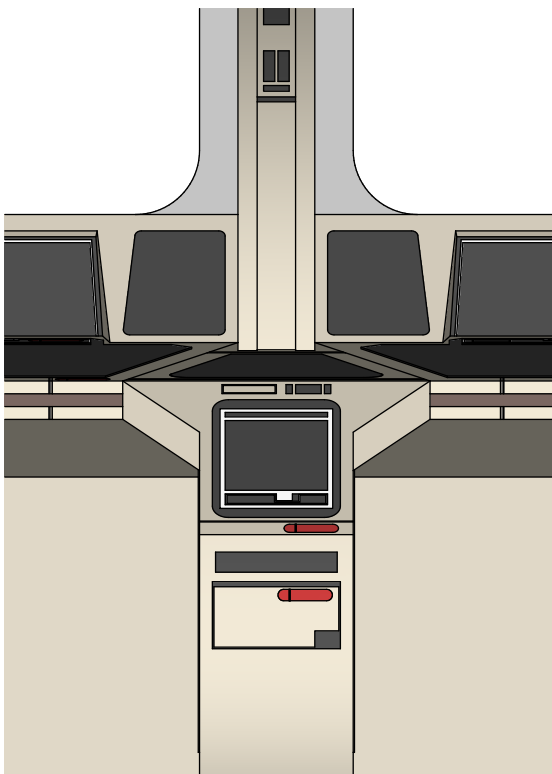
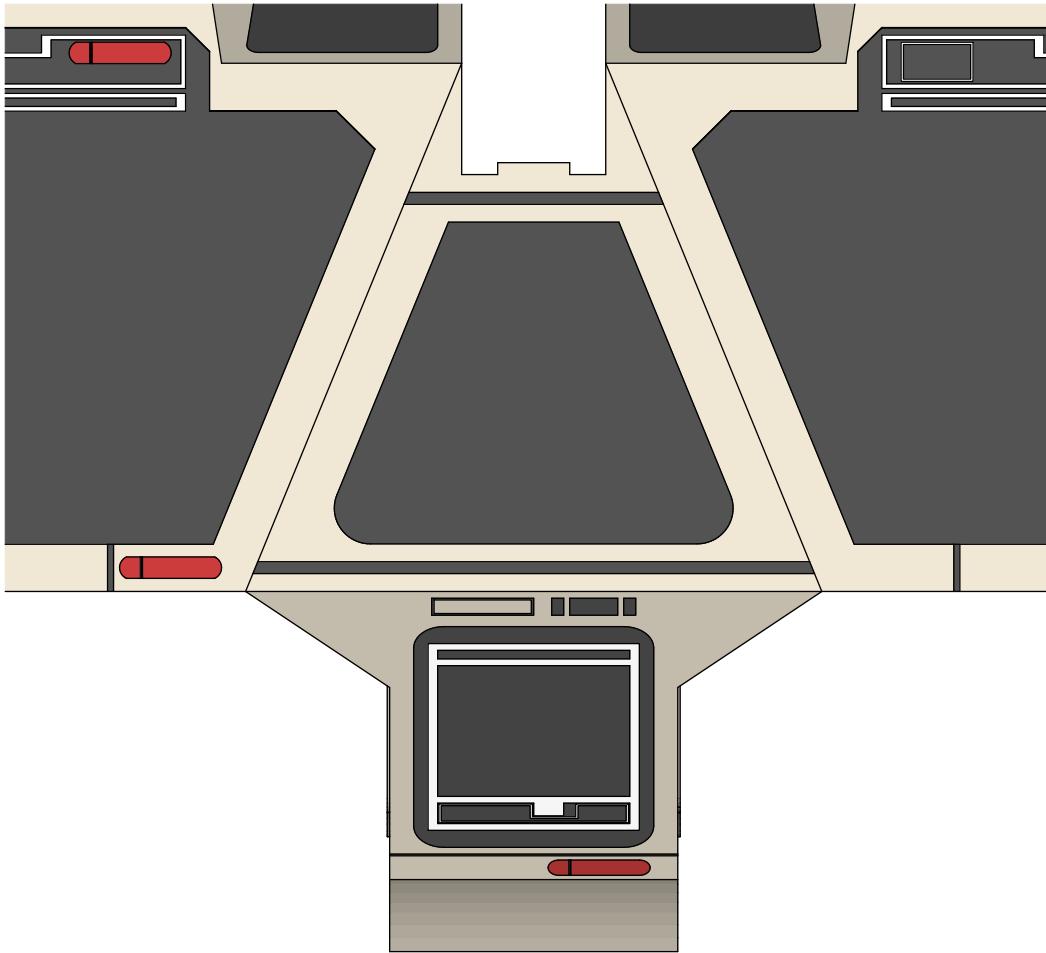
Ancillary Console

F4:

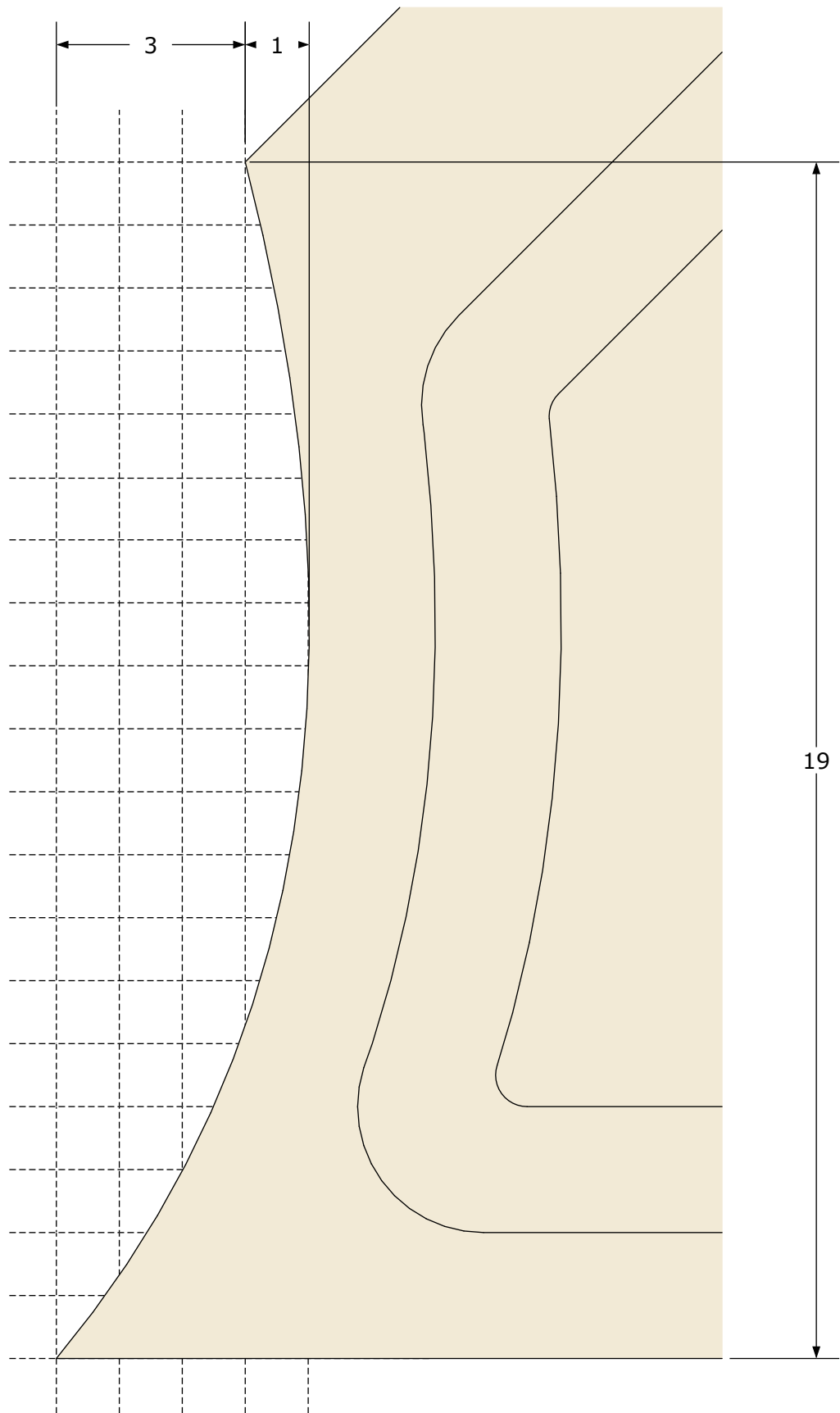


Black tape thickness 0.2

Mid Console Overview

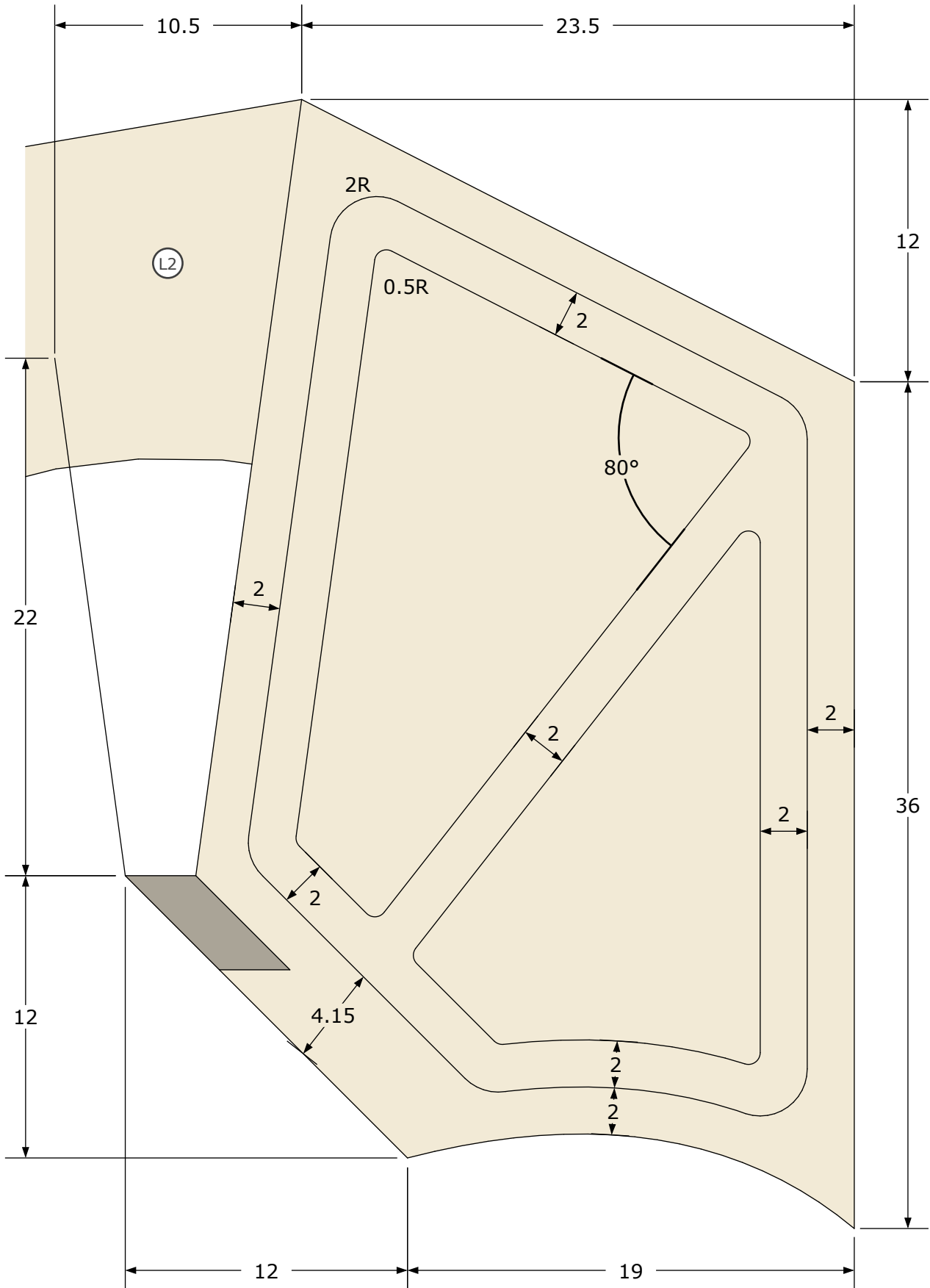


Console Curve



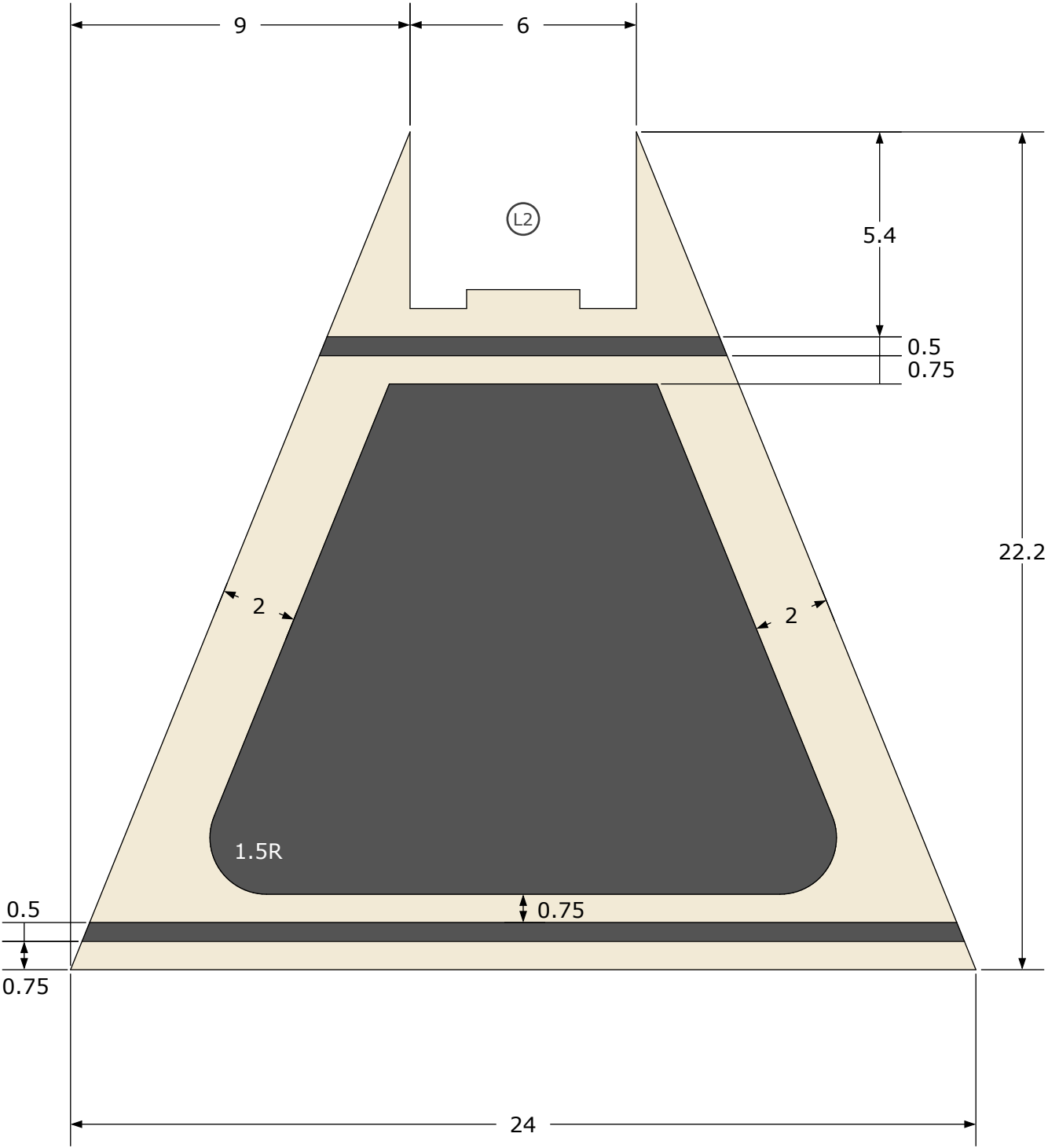
Grid lines at 1"

Side Pattern

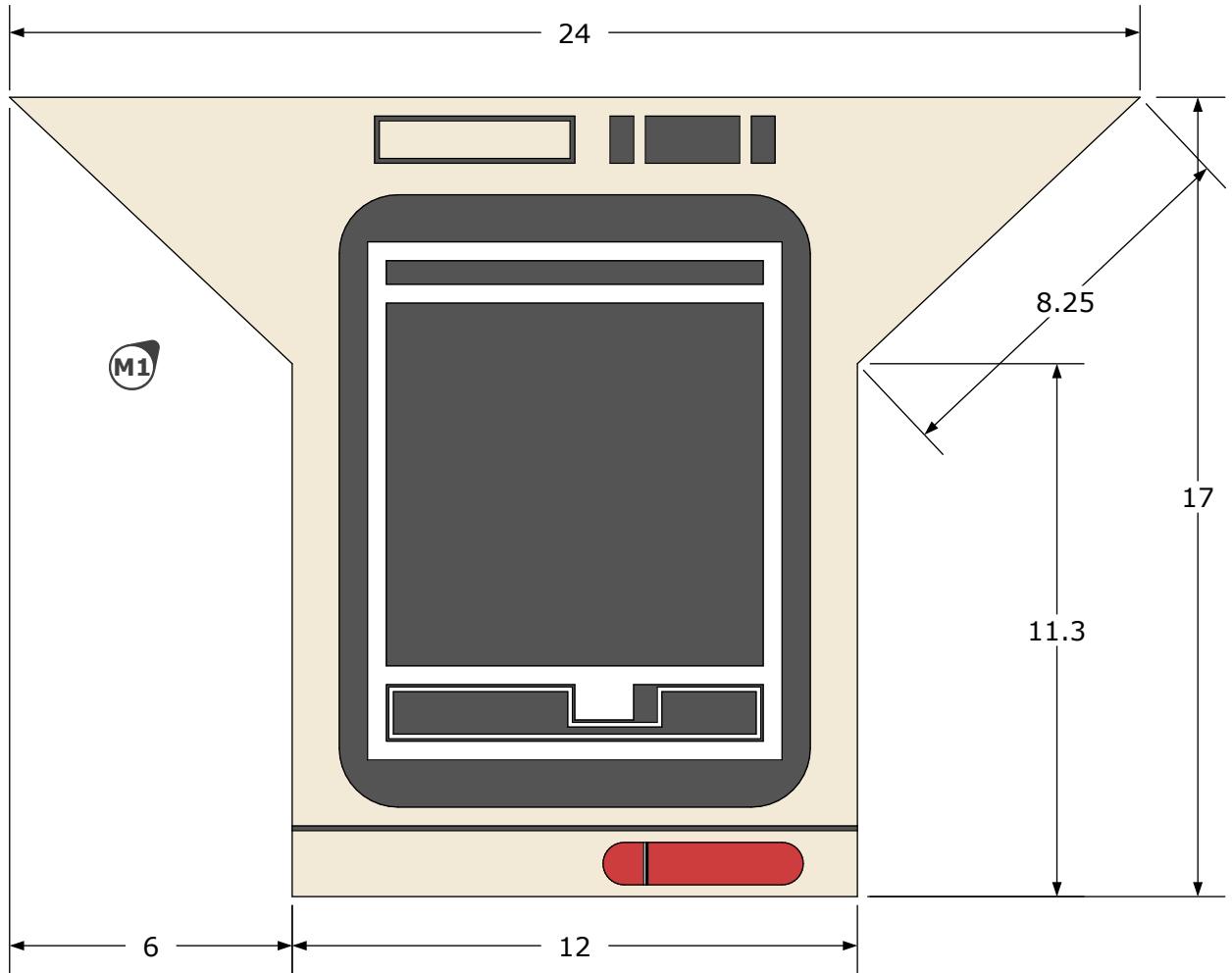


Pattern raised 1/8"

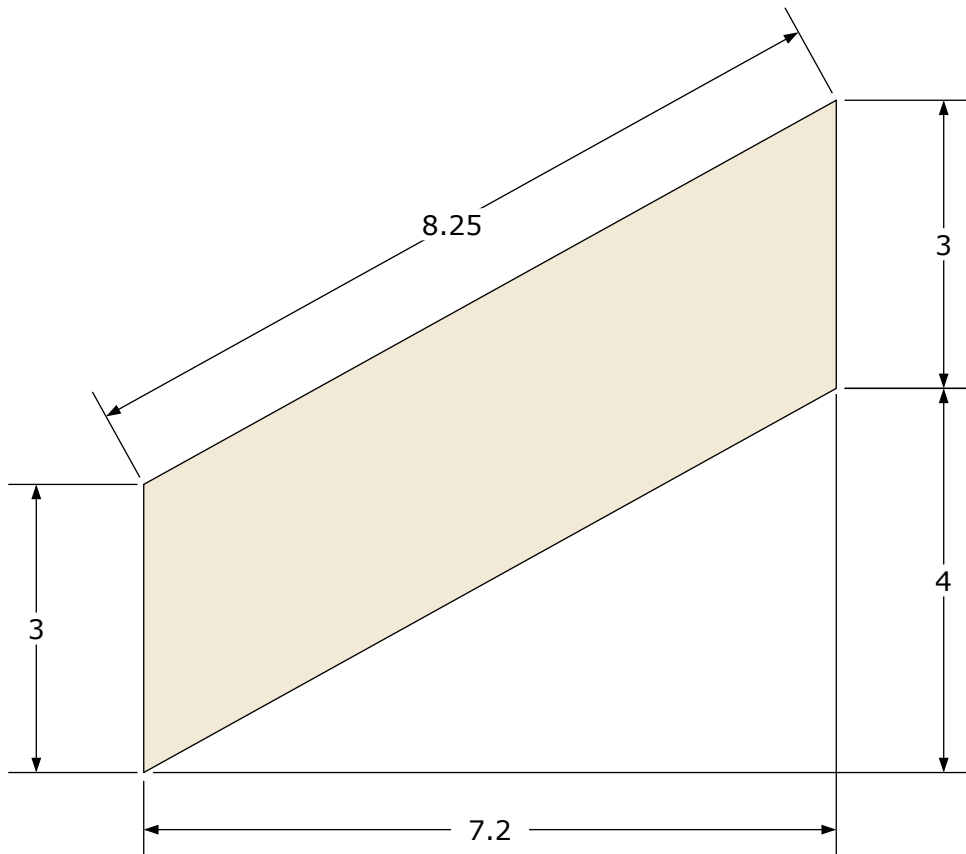
Top Panel



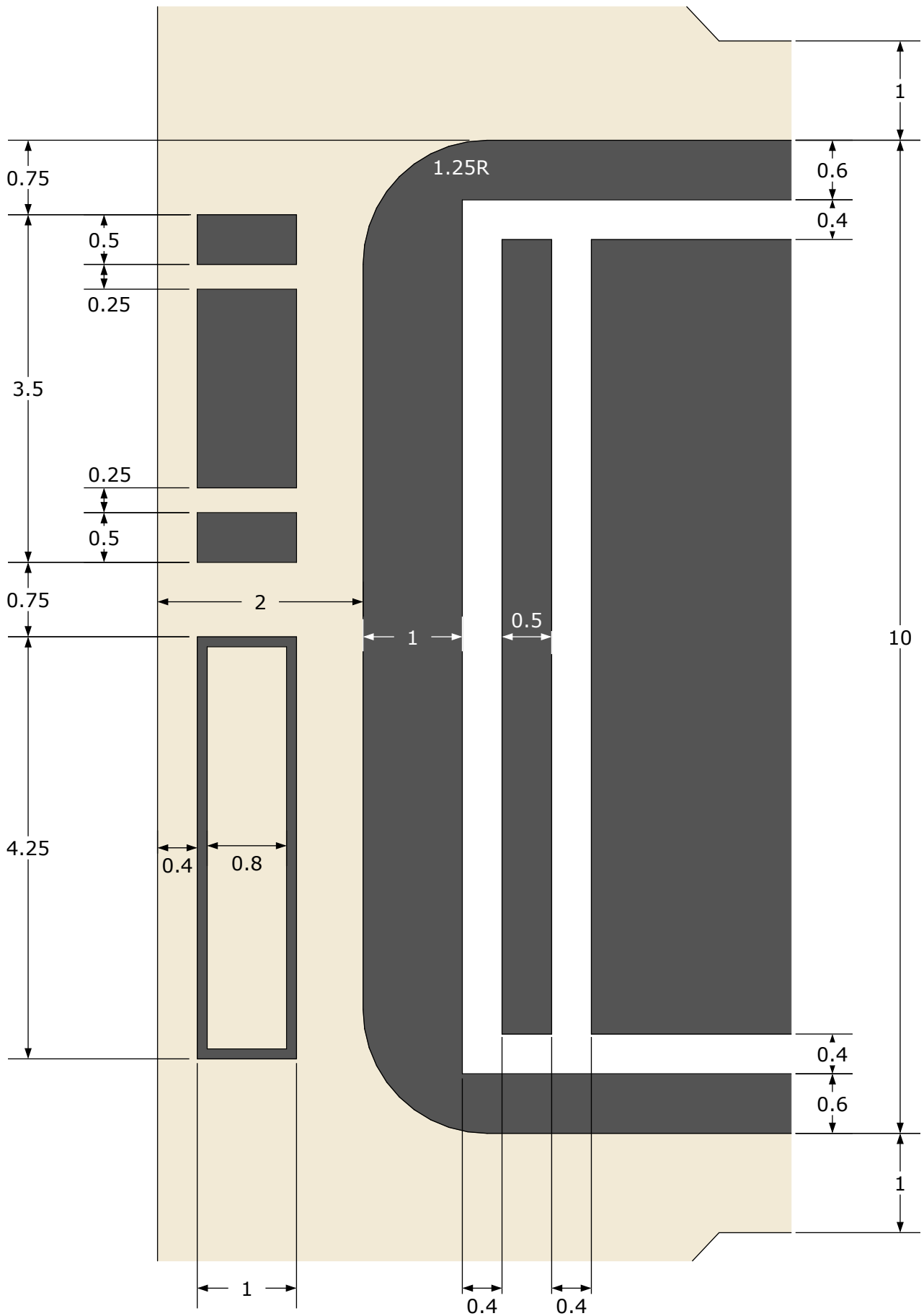
Interface Panel



Panel M1:



Interface Panel

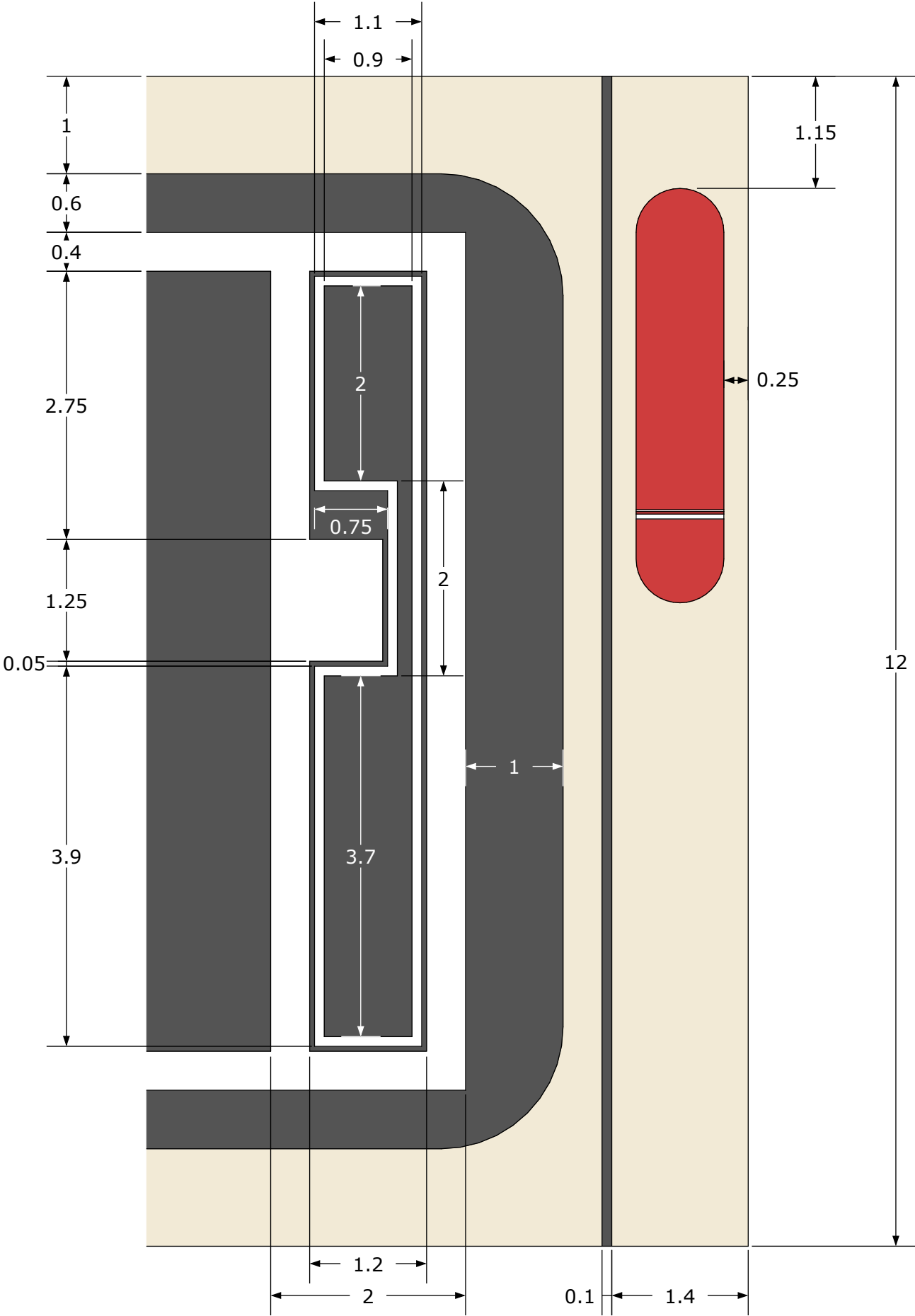


(Decimal Inches)

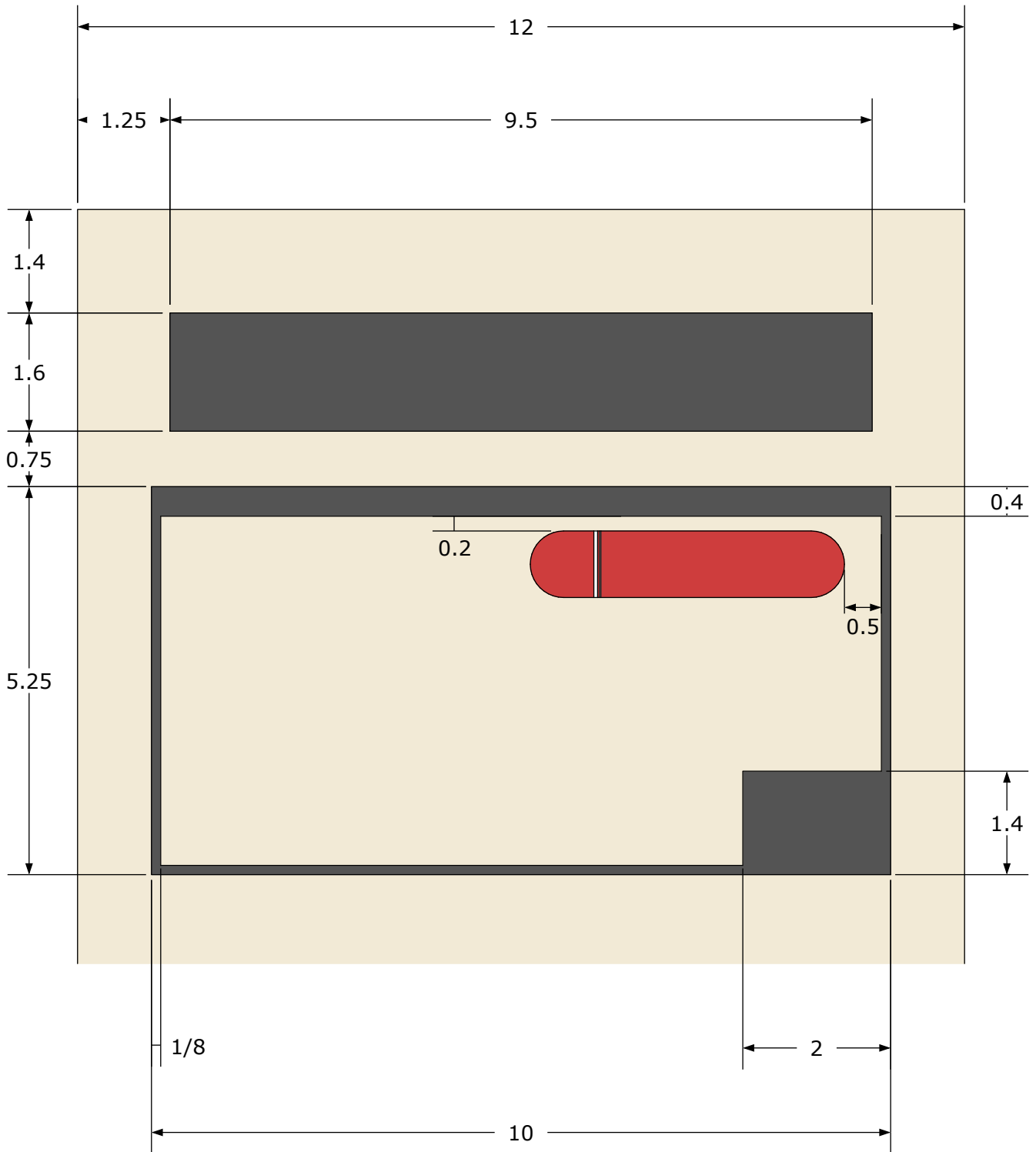
Front section - 16

REDGENERAL

Interface Panel

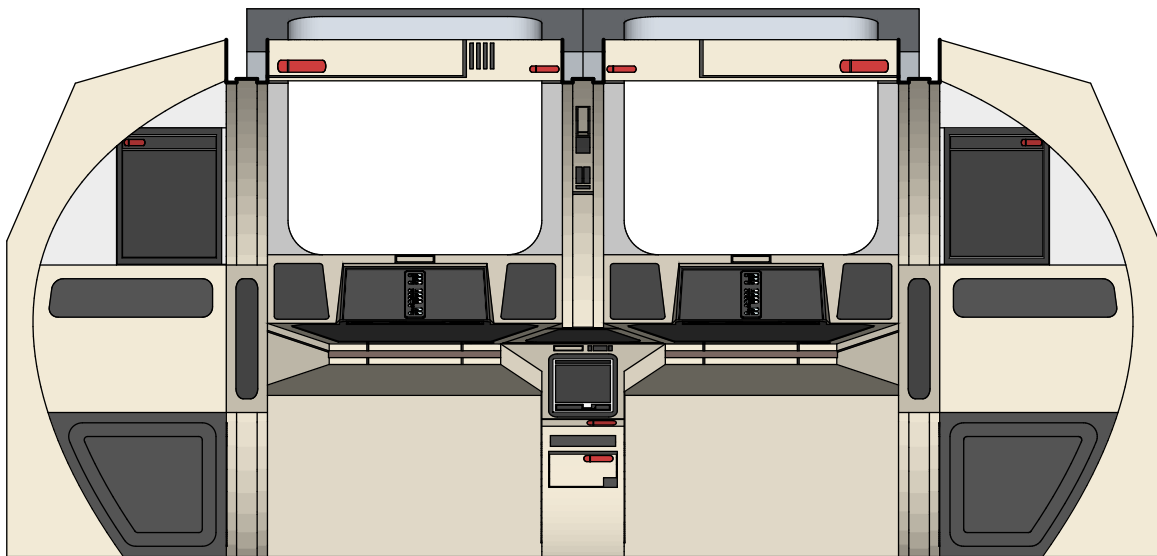
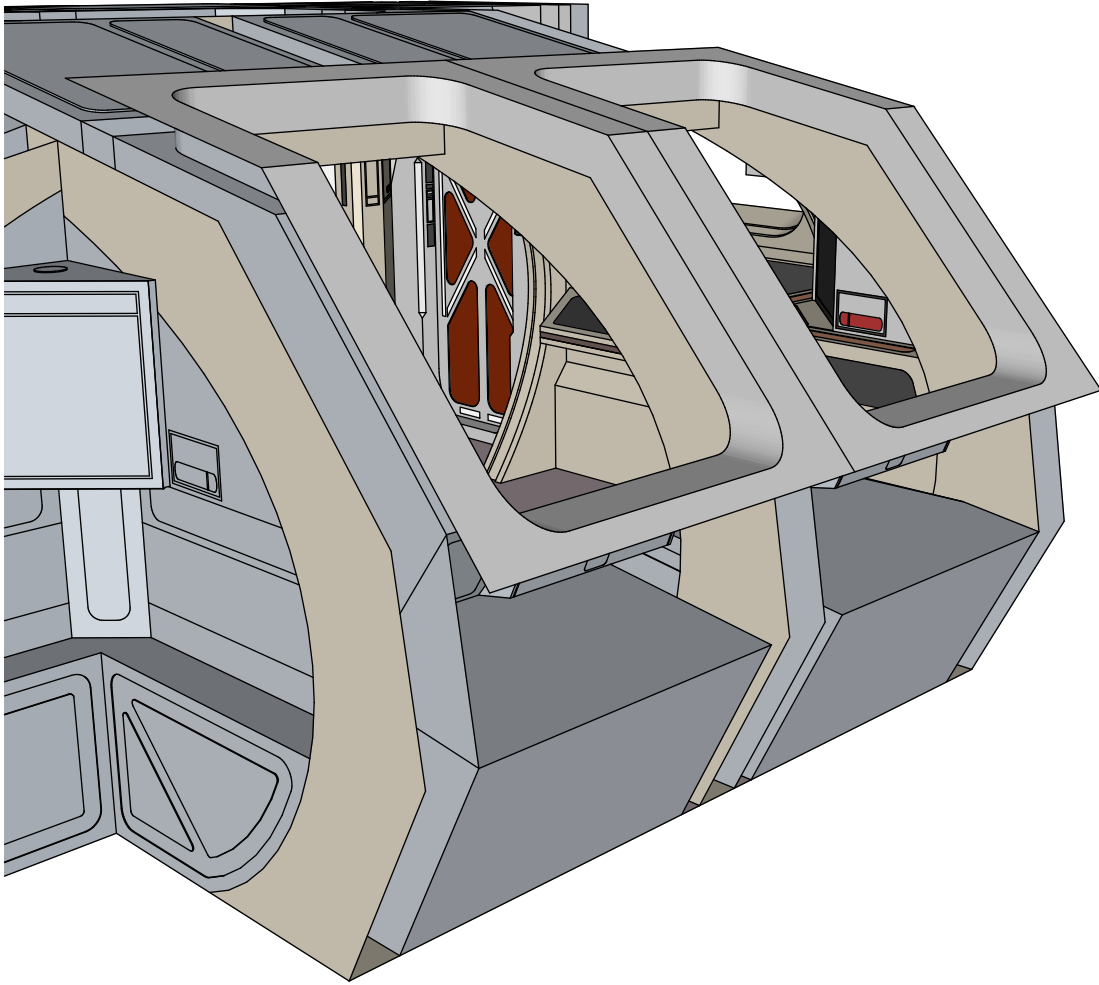


Curved Markings



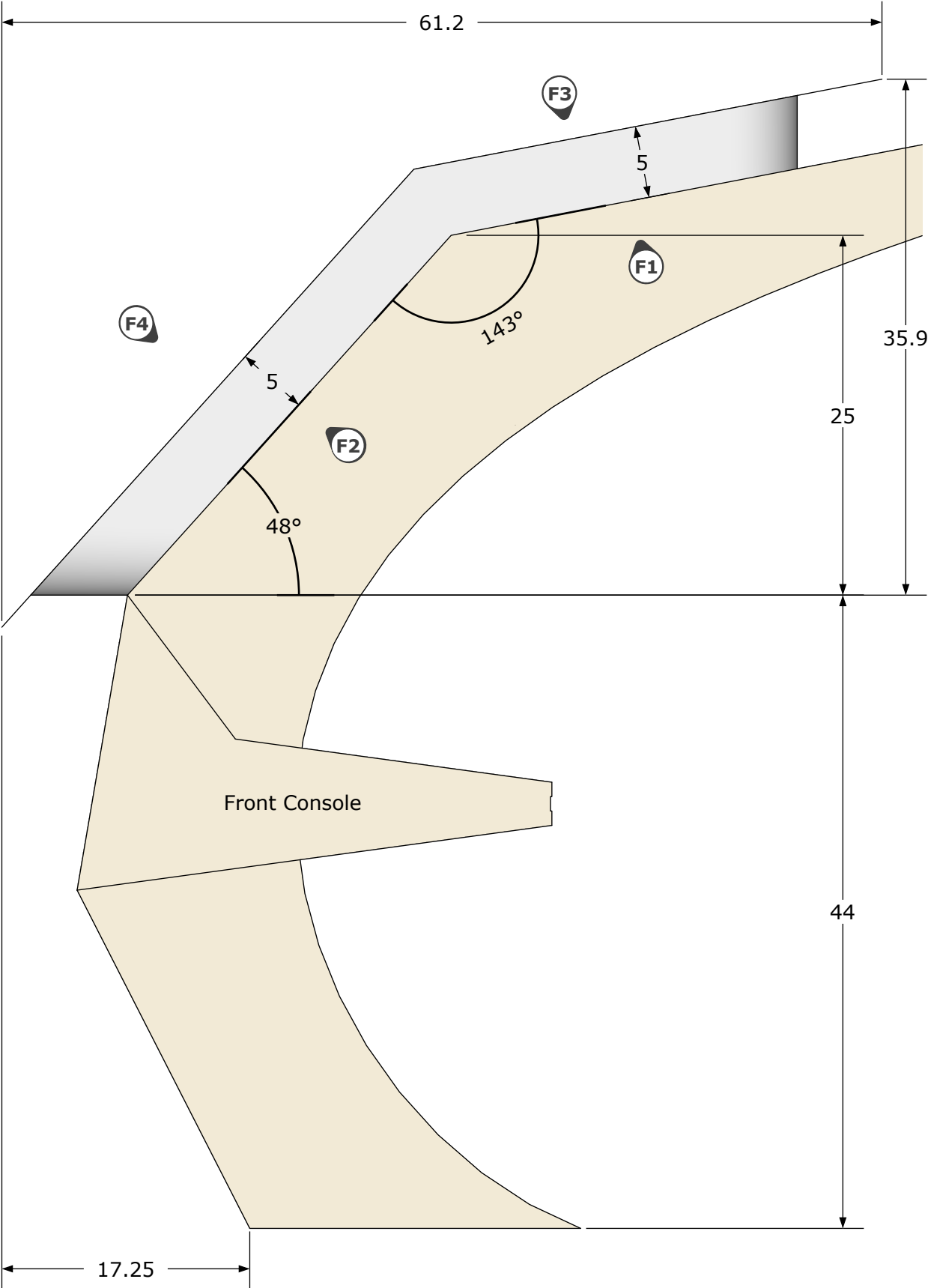
Note: All vertical measurements on this page follow the surface curvature

Front Window Overview



Front window frames are removable for camera work

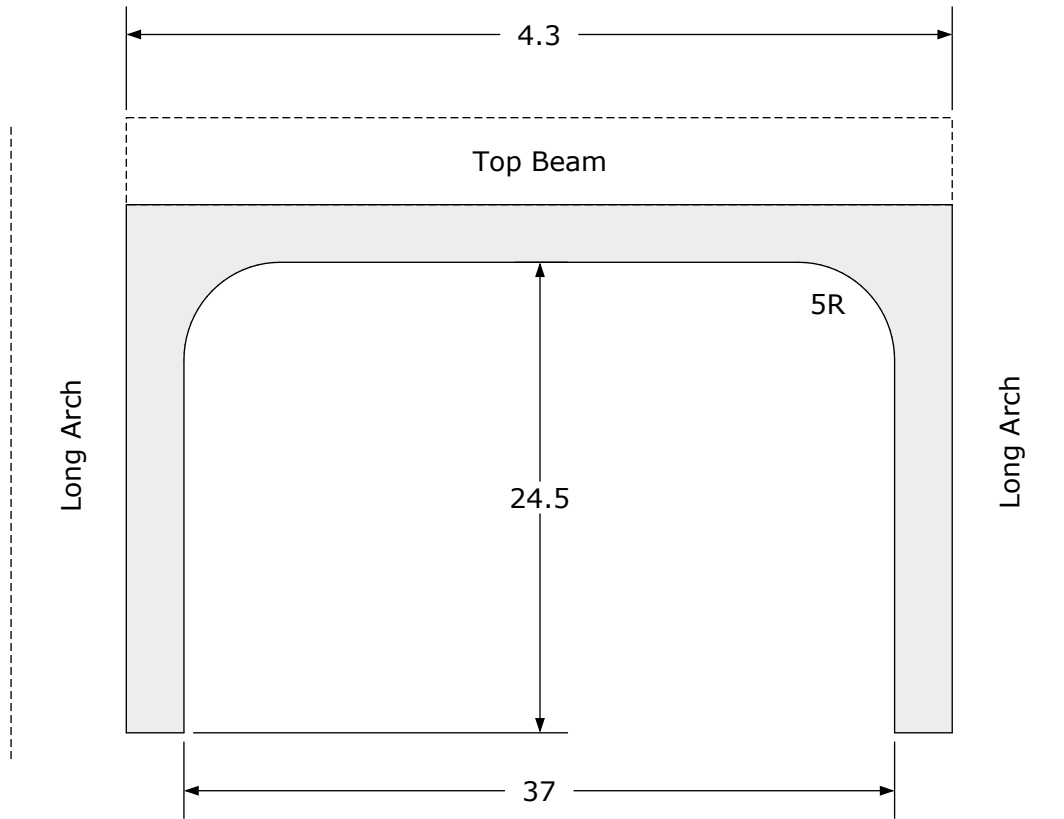
Side Profile



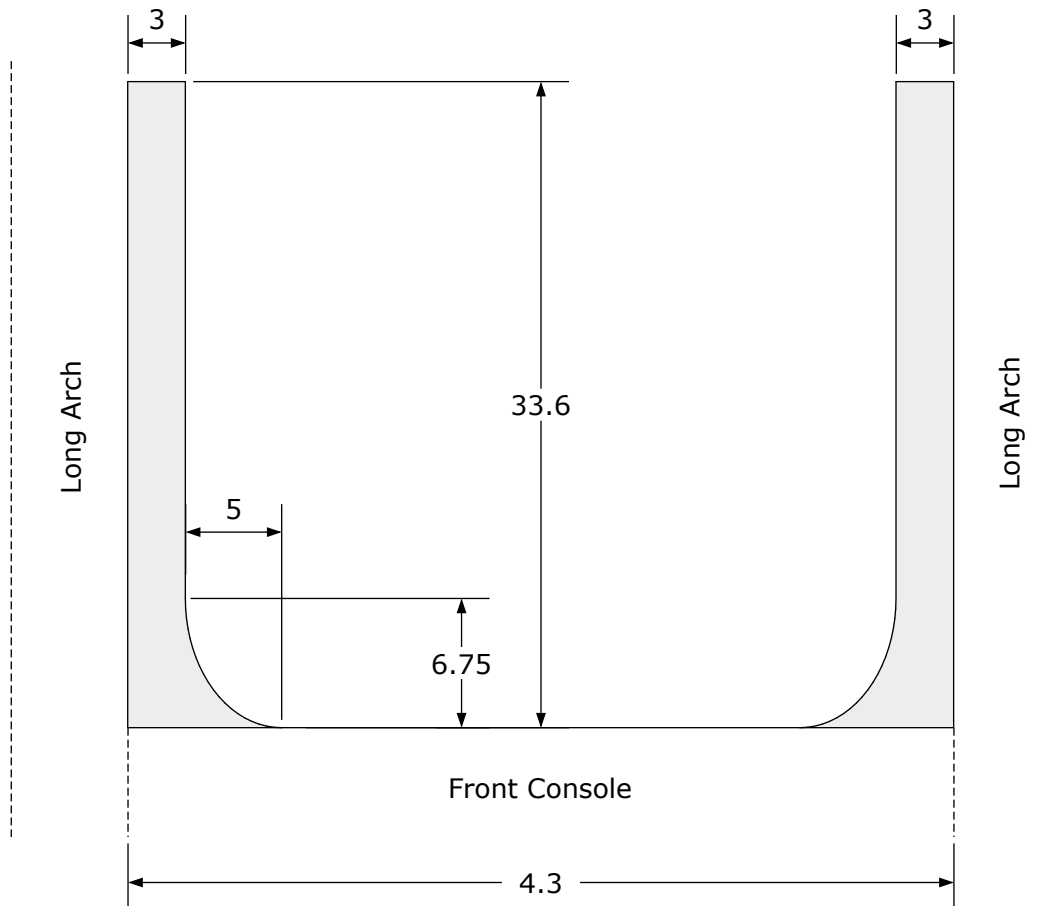
Note: Window follows profile of long arch

Inner Surface

F1:

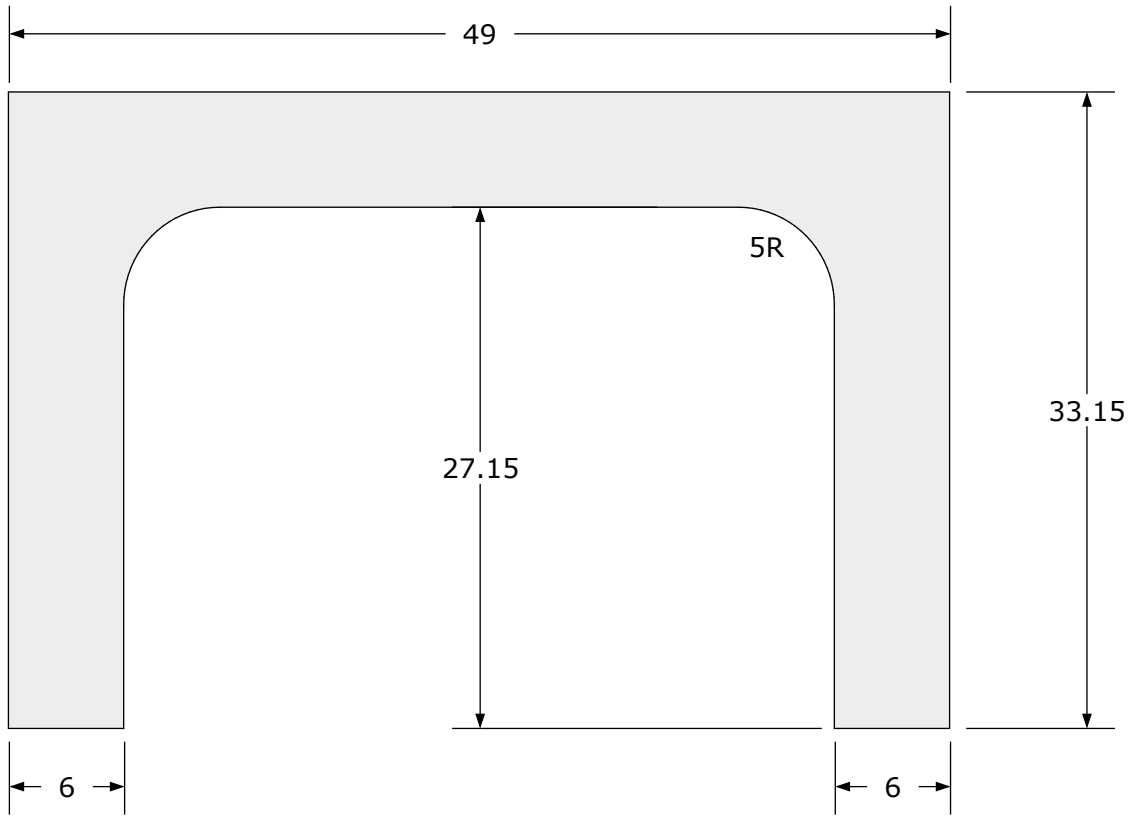


F2:

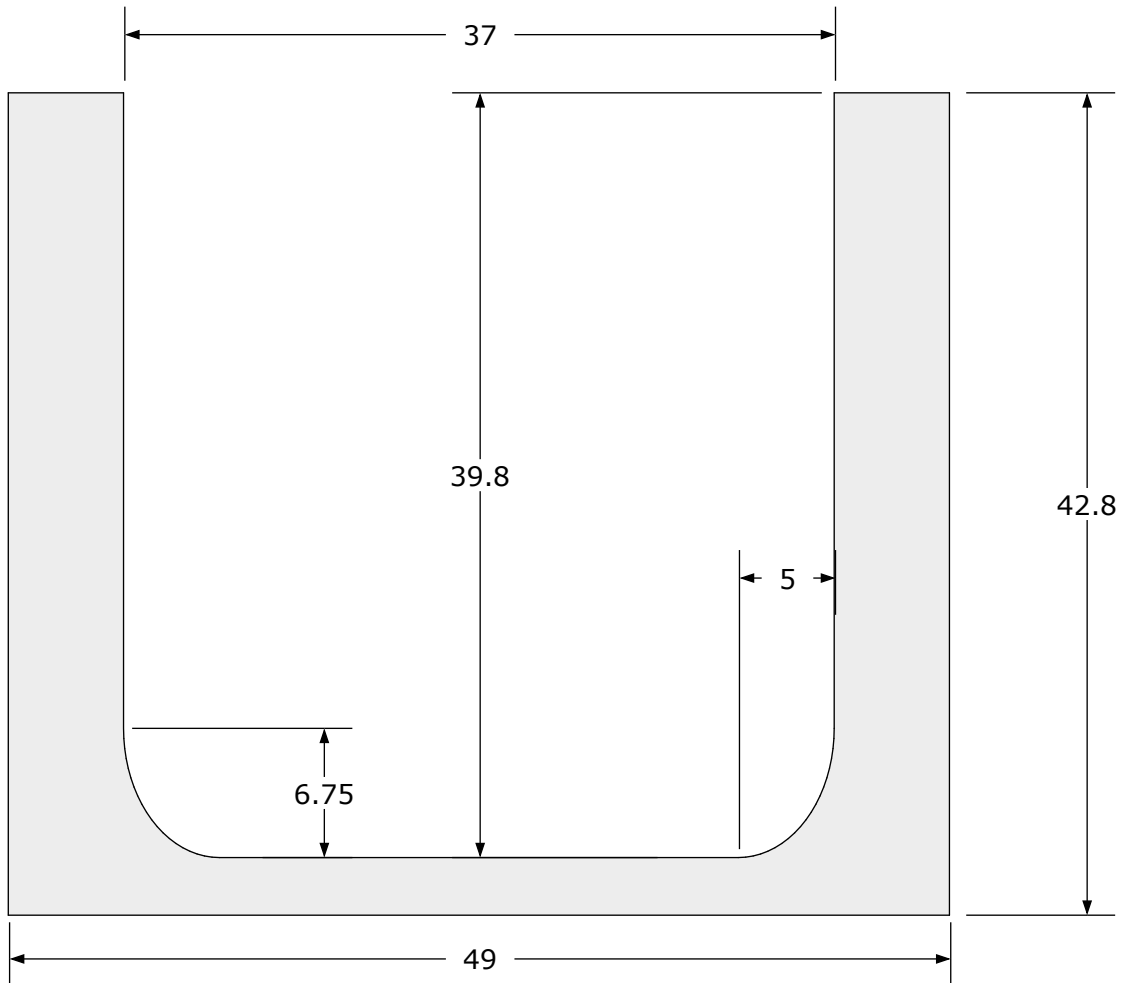


Outer Surface

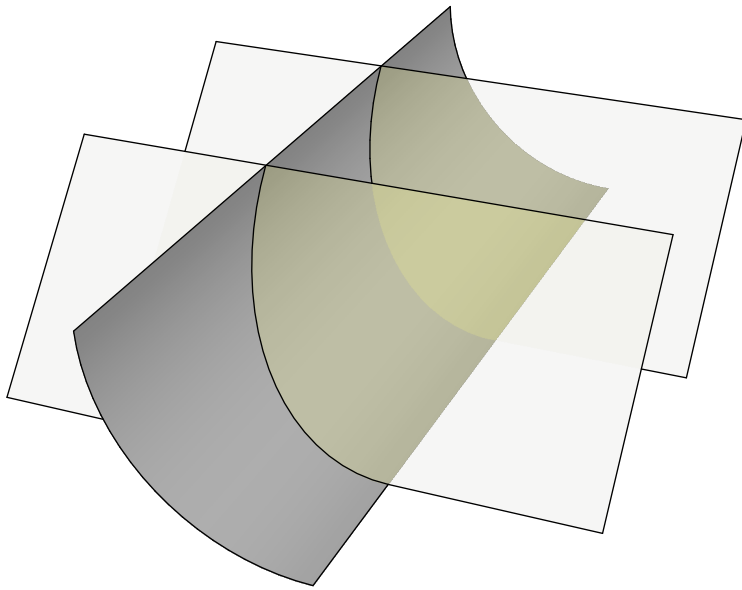
F3:



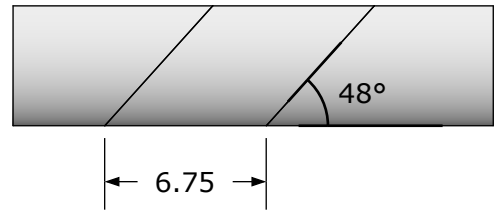
F4:



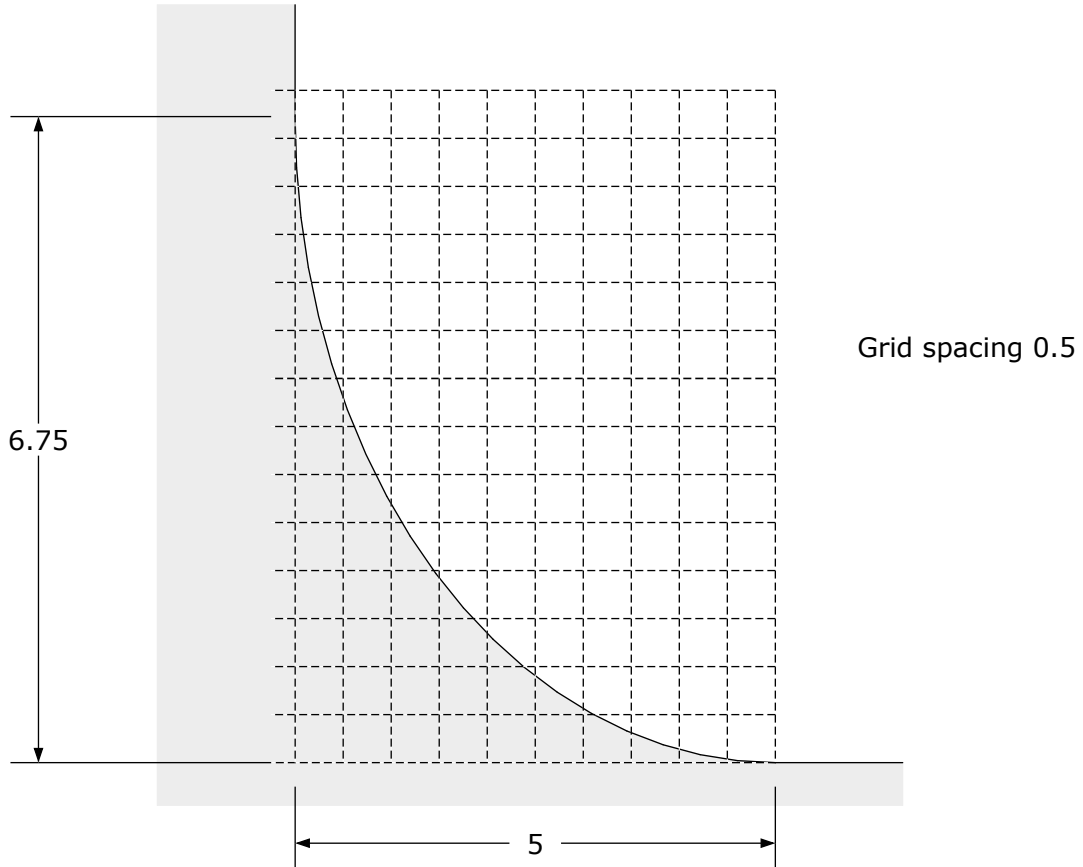
Lower Curve



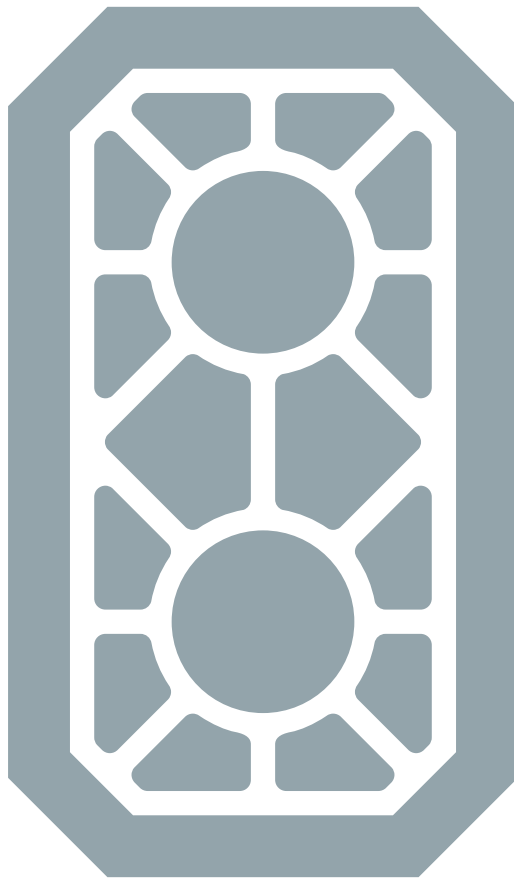
The lower corner curve profile is formed from a quarter tube (radius 5) sliced at 48 degrees. The two slices are 6.75 apart.



Profile of curve on window frame surface:

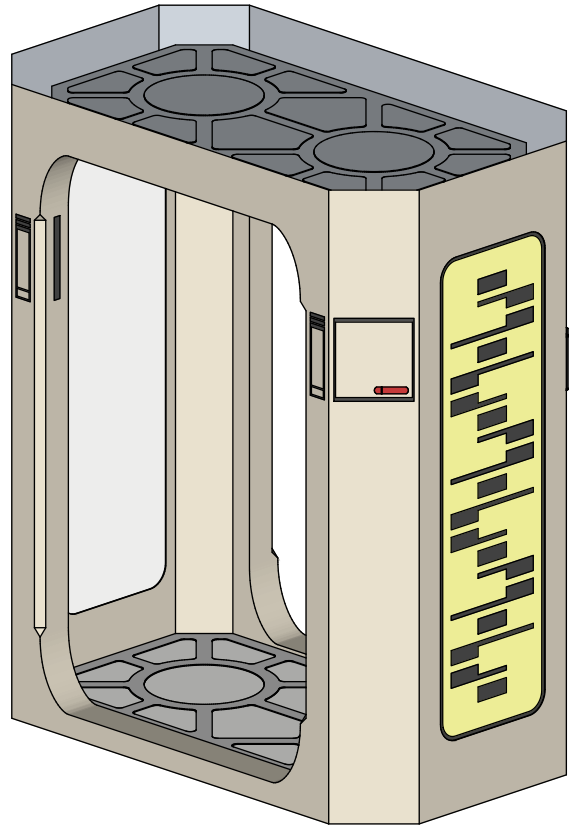
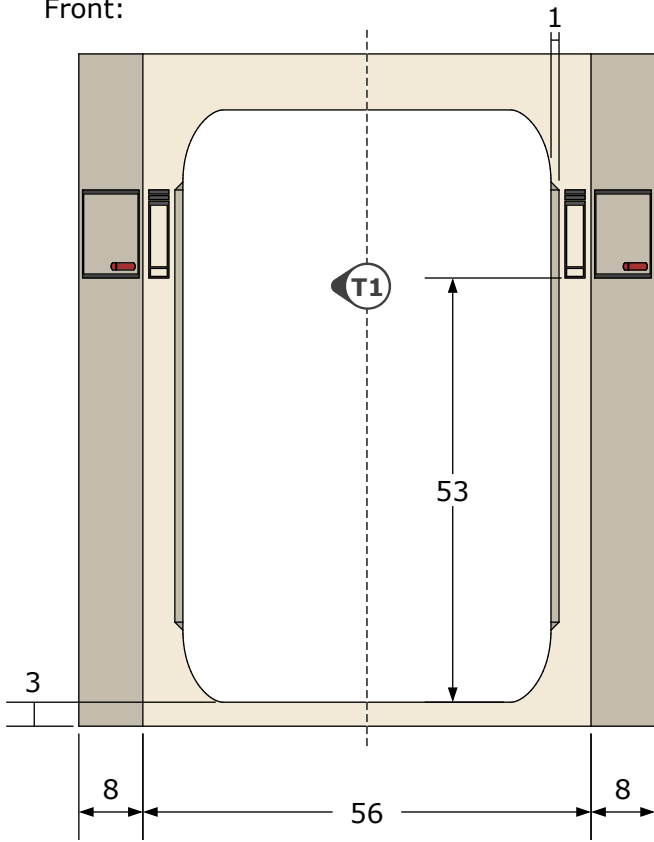


TRANSPORTER

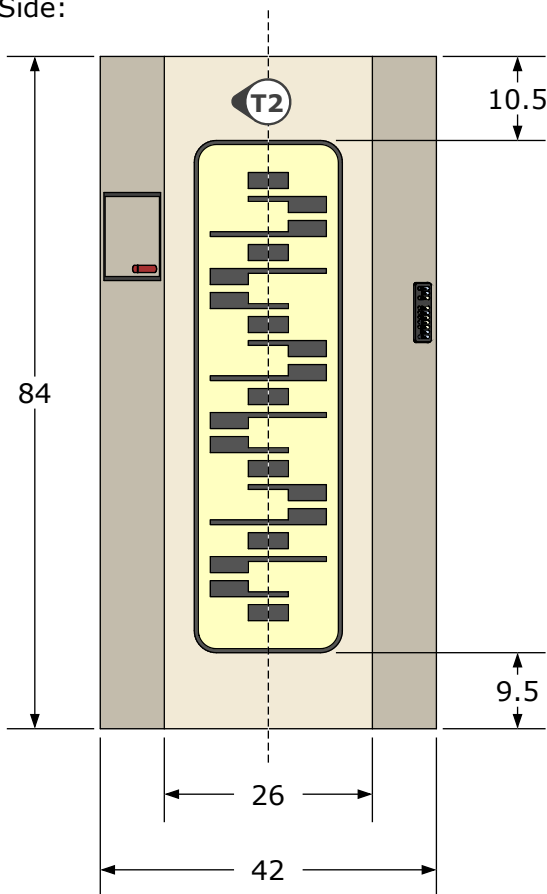


Structure

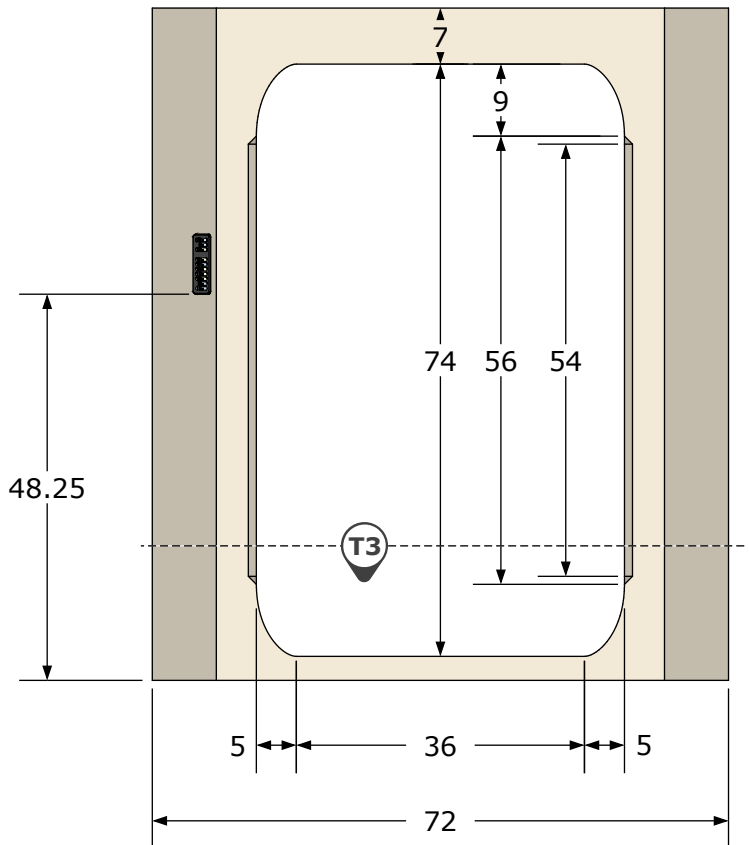
Front:



Side:

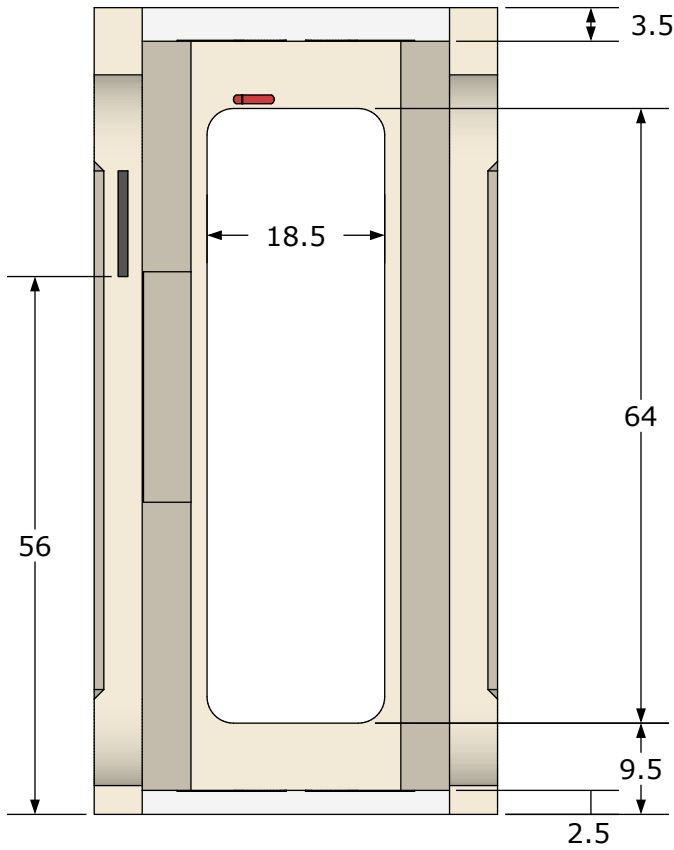


Back:



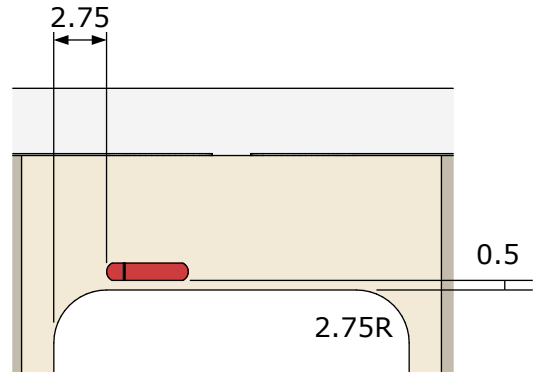
Interior

T1:

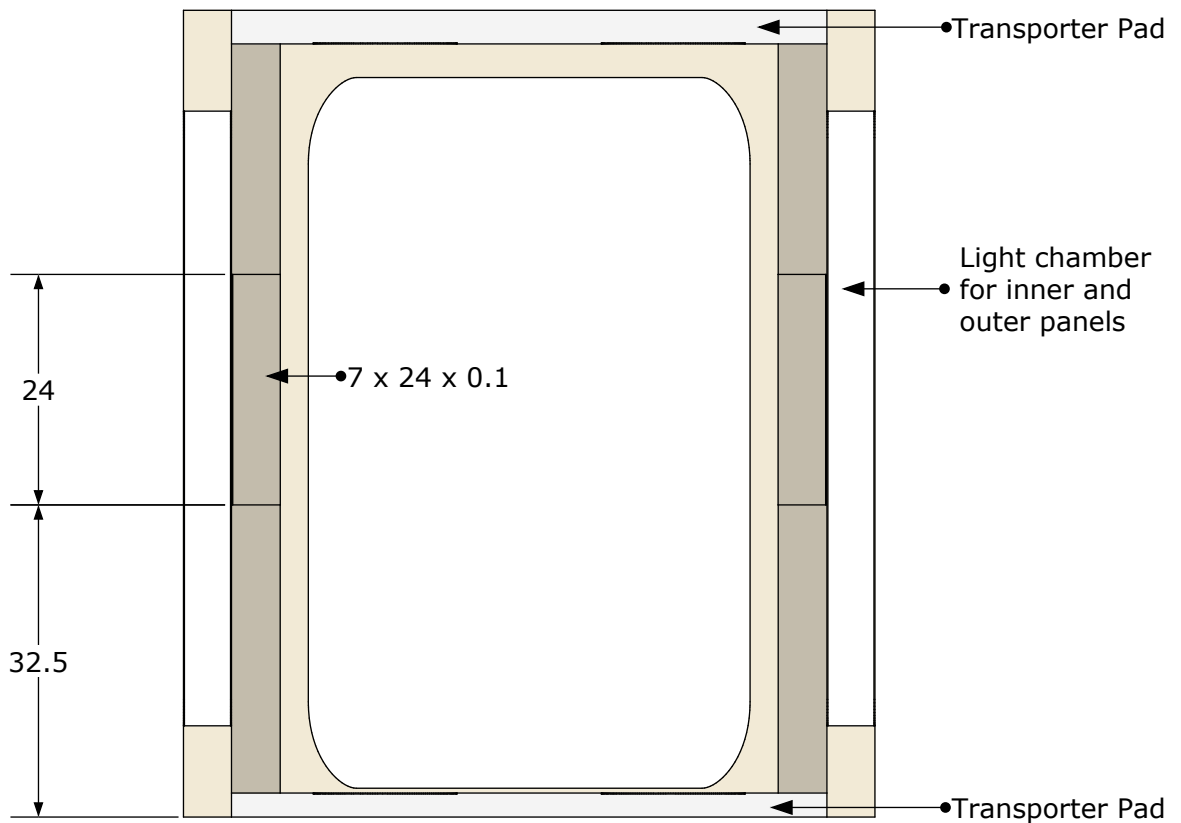


Interior light panel has a mesh grill inset 0.1 from surface.

This mesh is possibly translucent and the white lights behind bleach out detail.

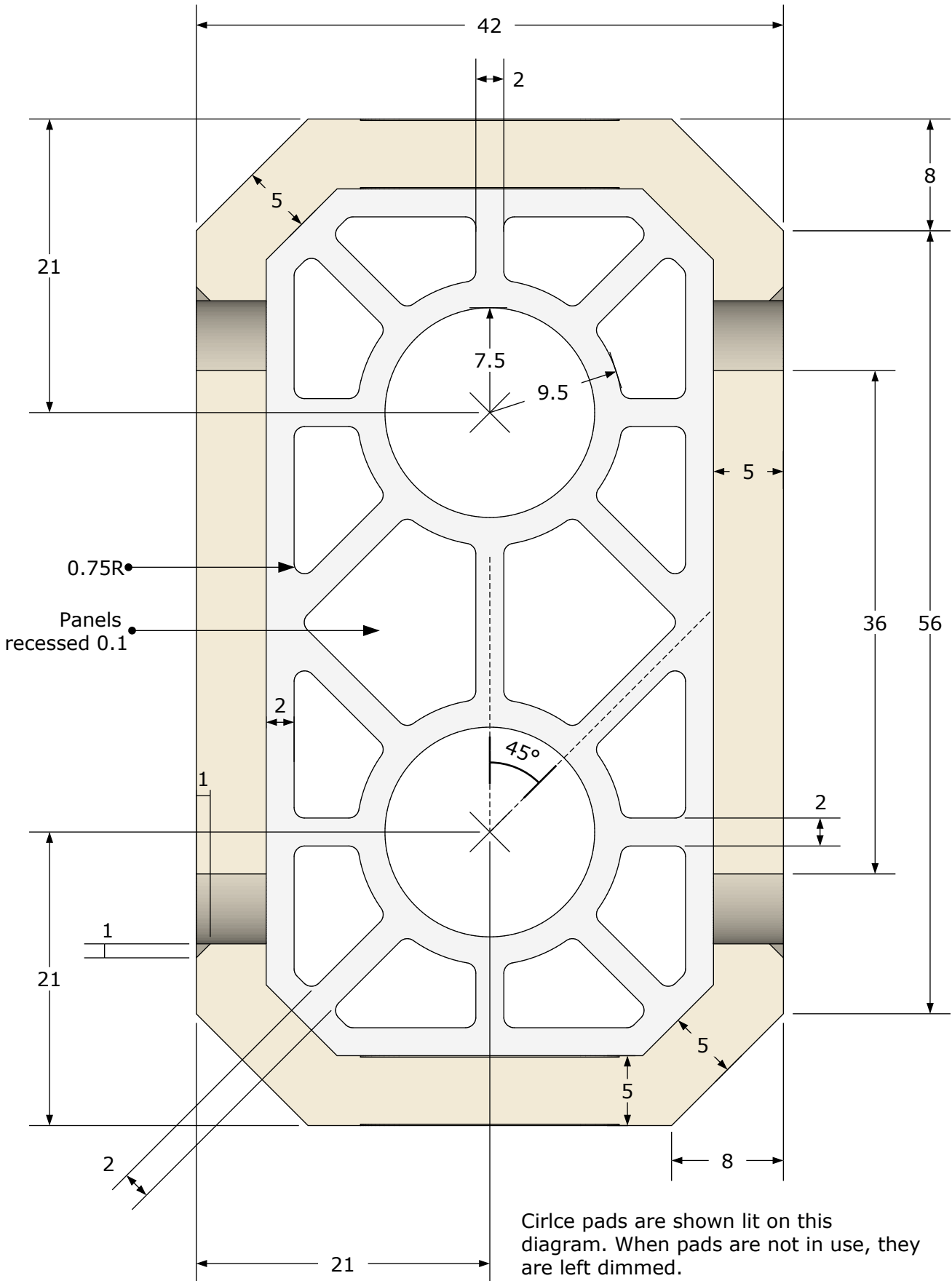


T2:

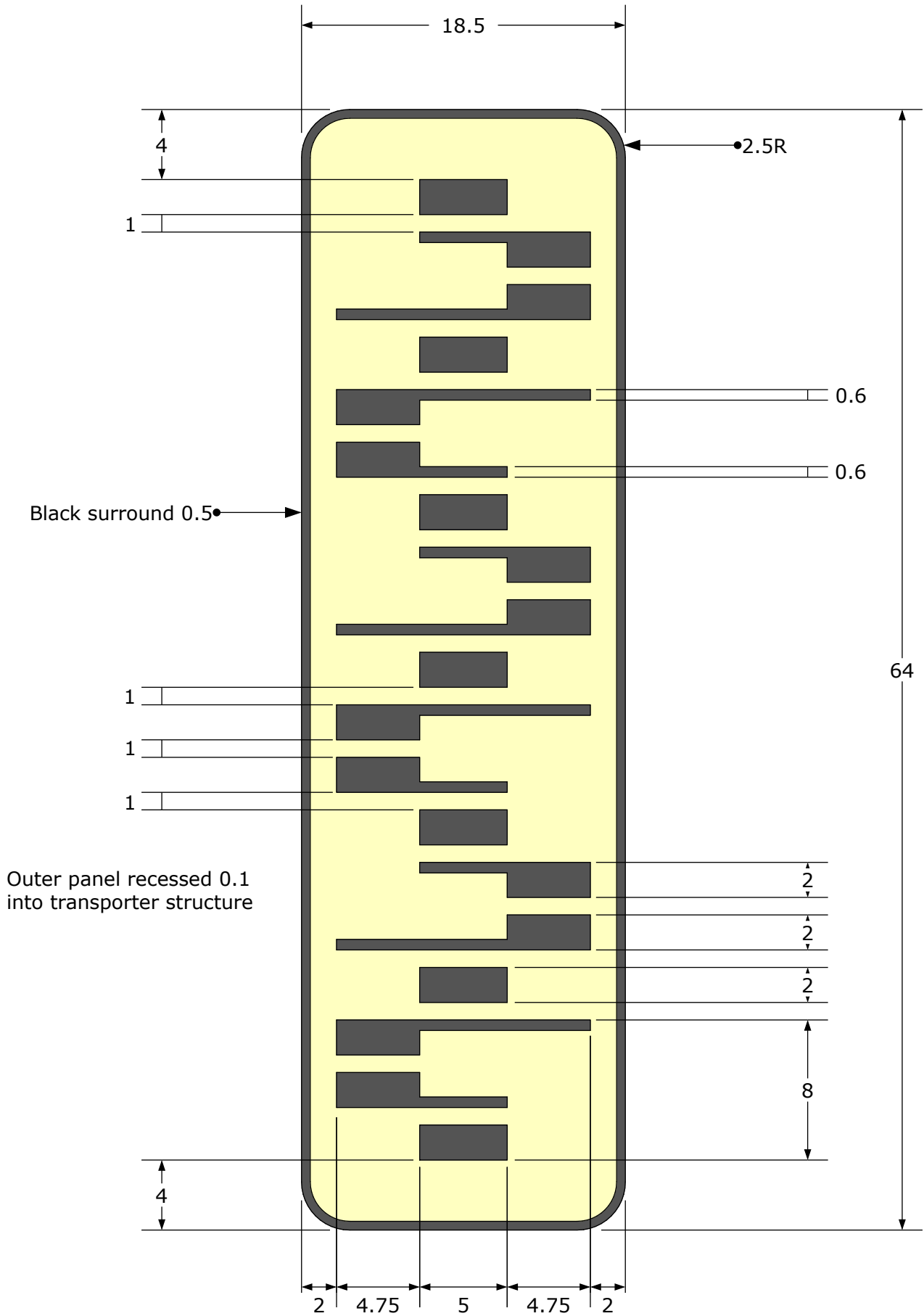


Pad

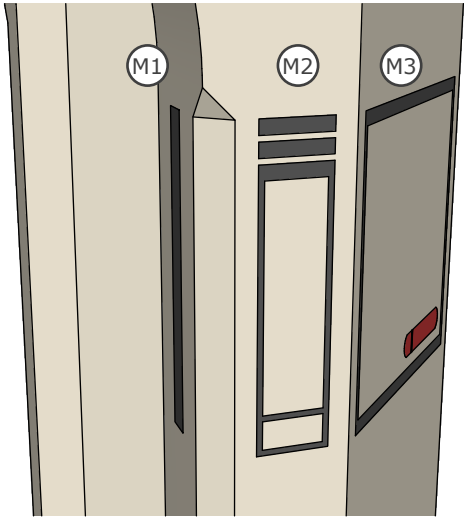
T3:



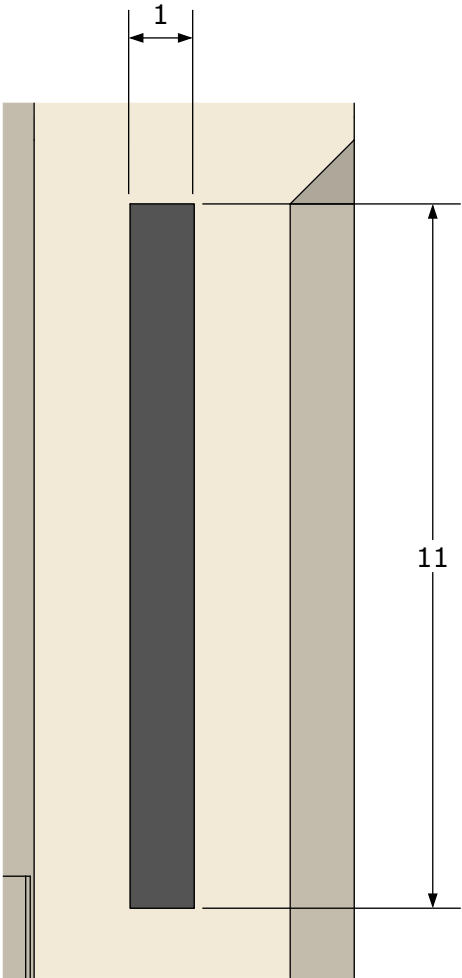
Outer Panel



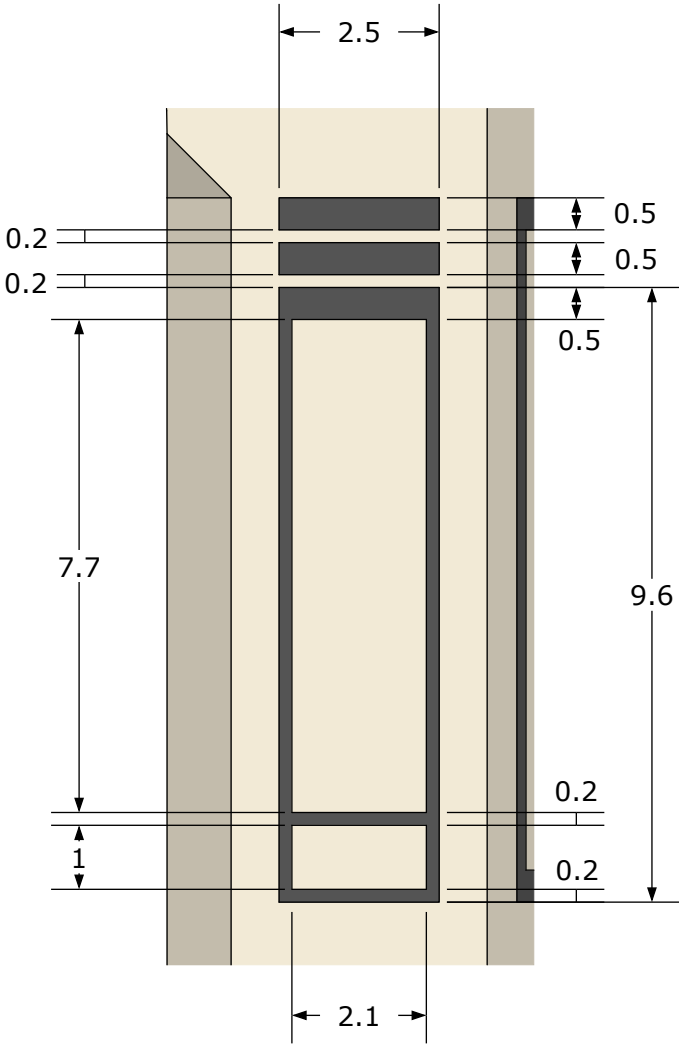
Tape Markings



M1:

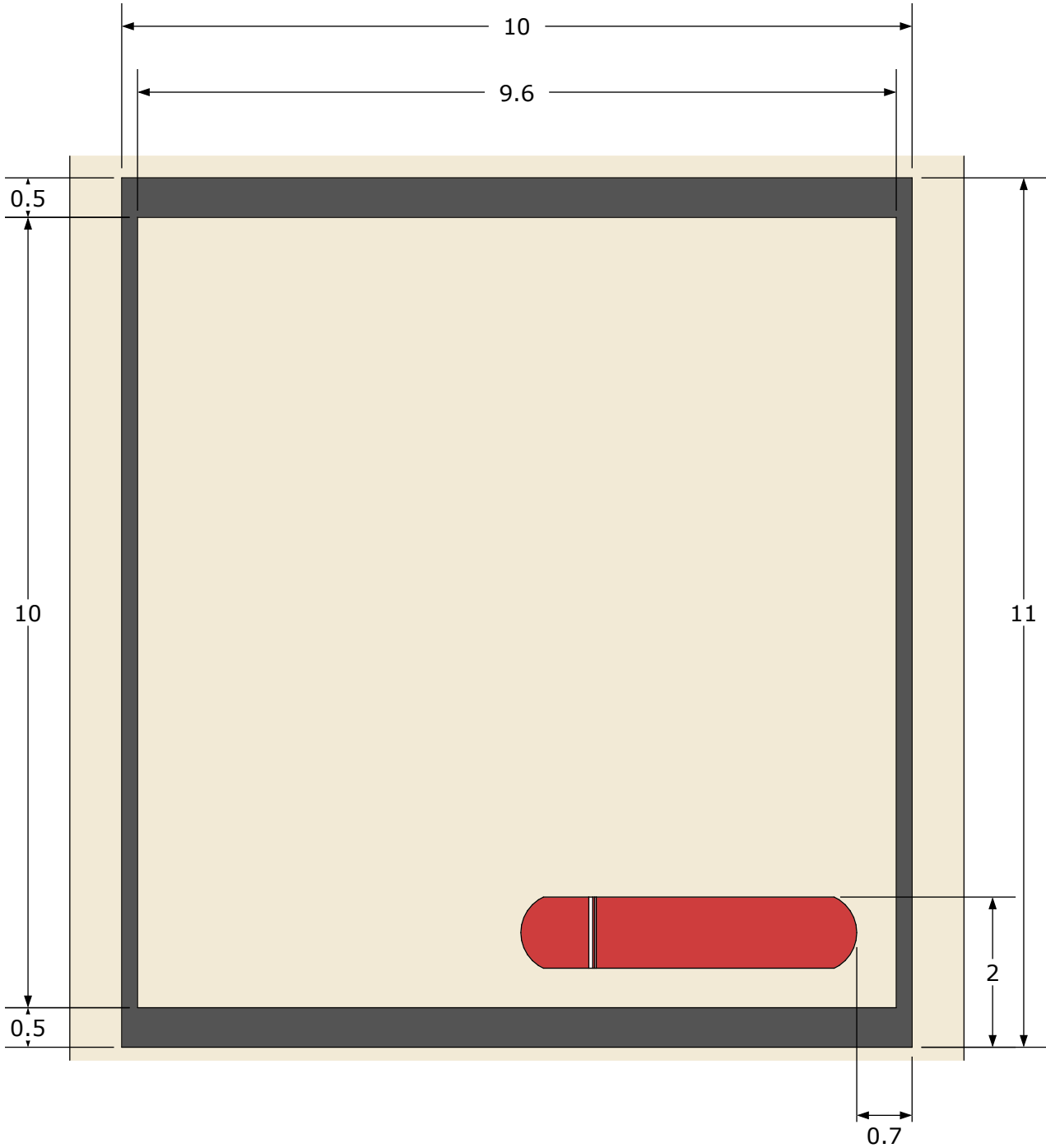


M2:



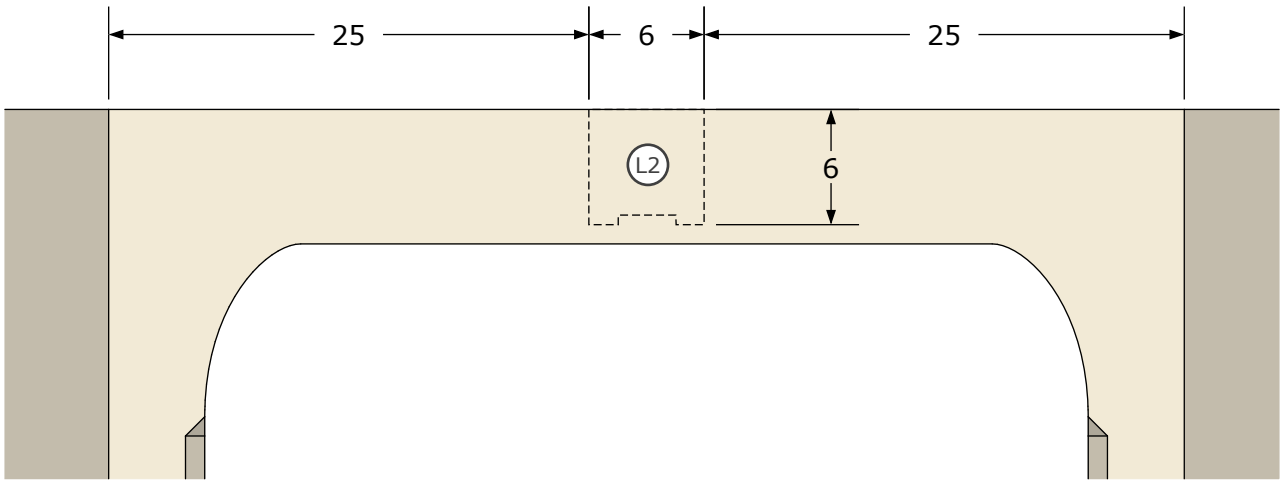
Tape Markings

M3:

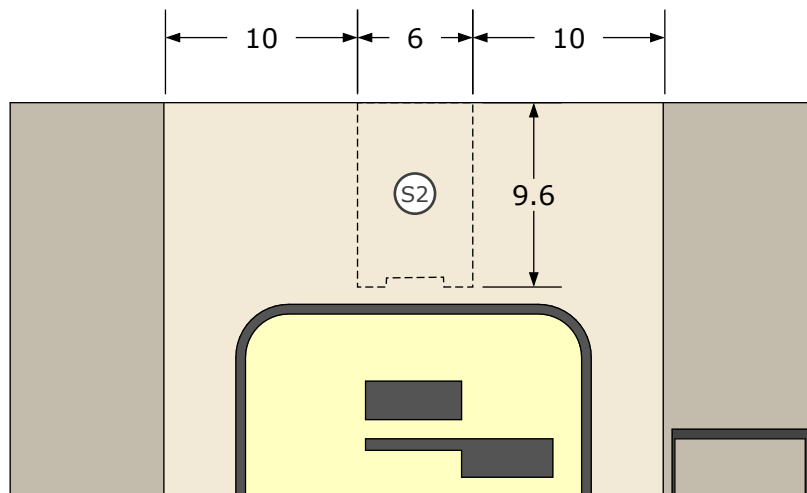


Arch Intersections

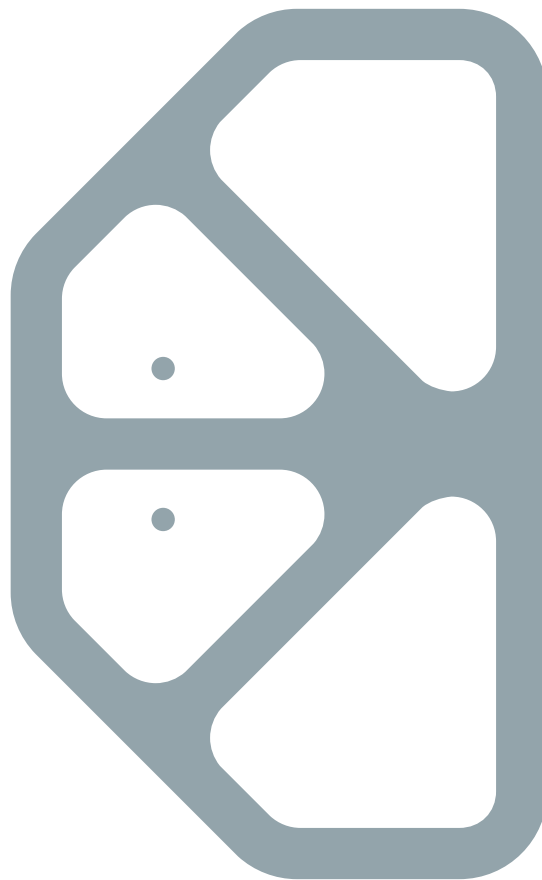
Front and Back:



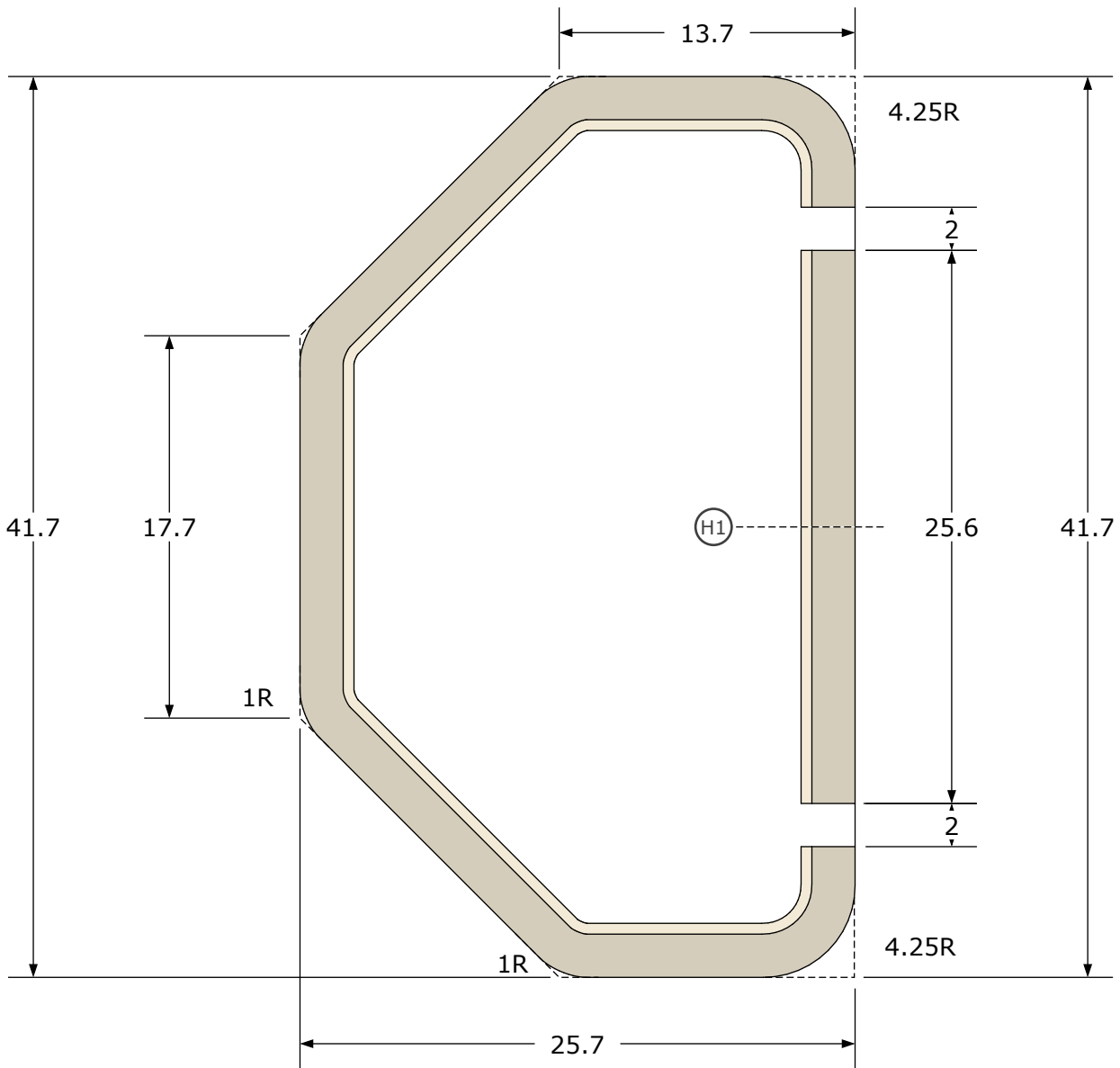
Left and Right:



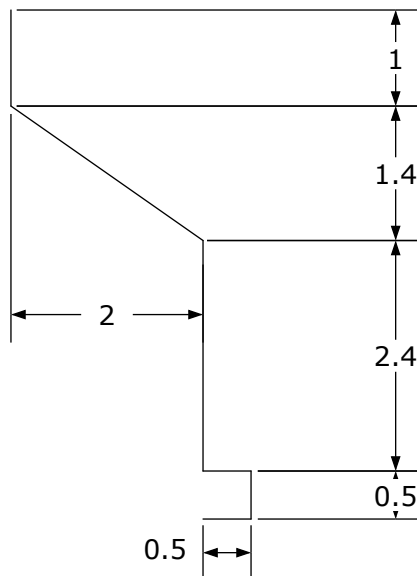
FLOOR HATCH



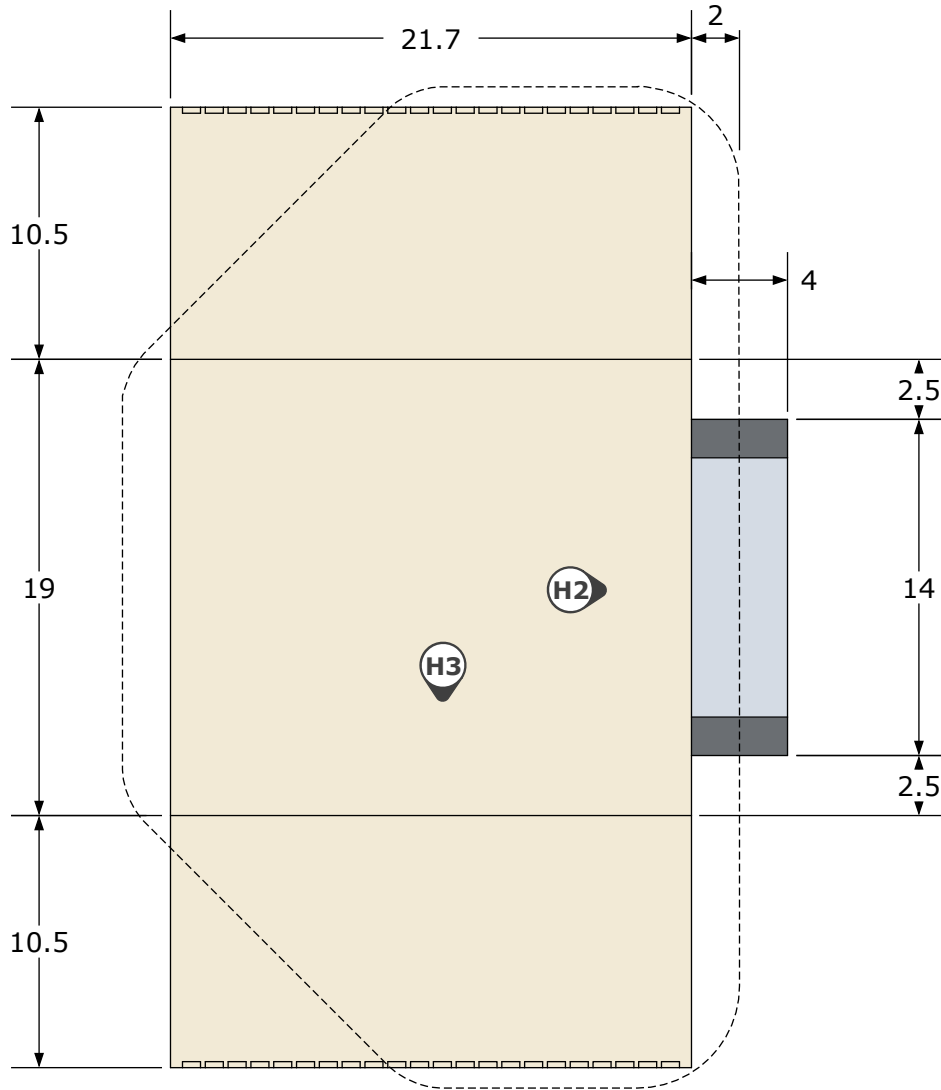
Hatch Surround



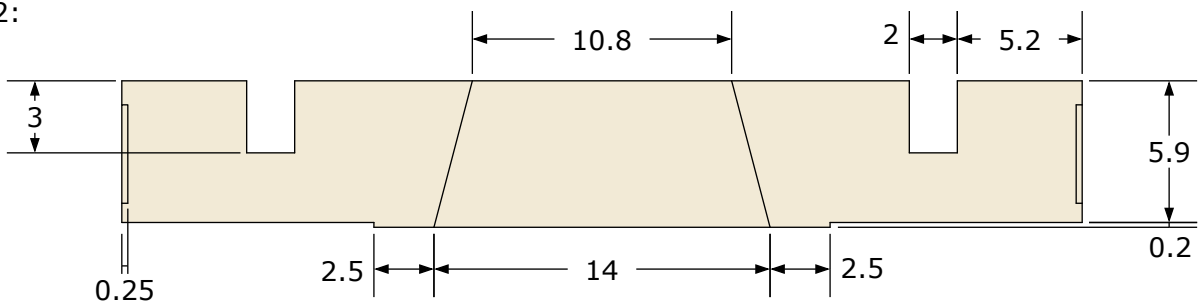
Cross-section H1:



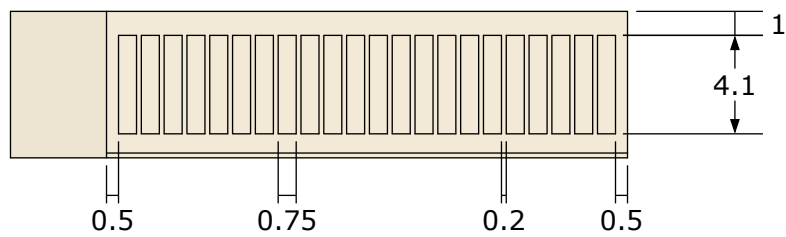
Tray



H2:

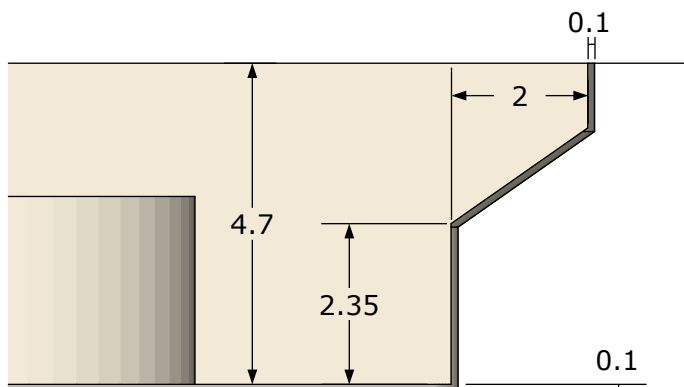
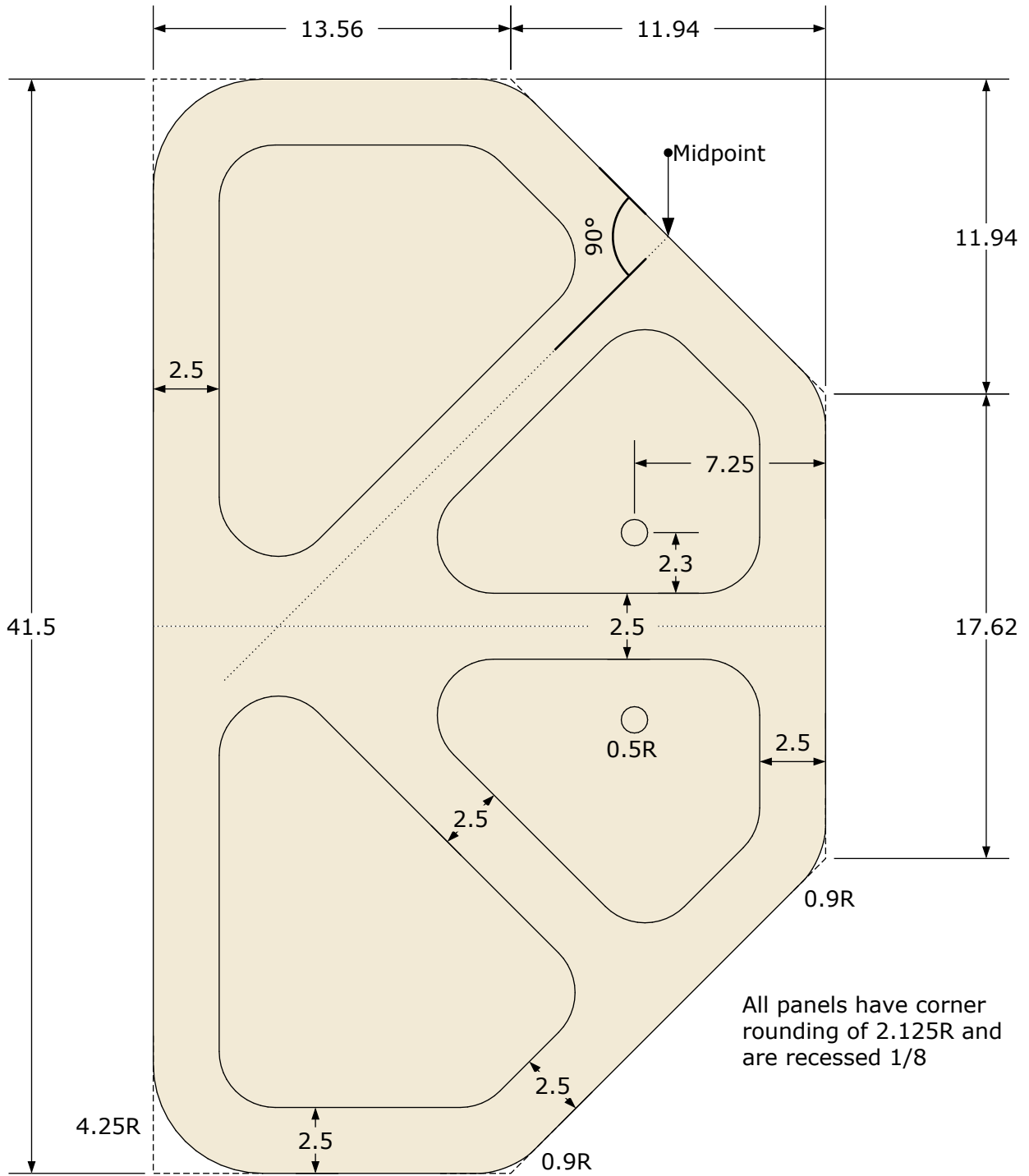


H3:

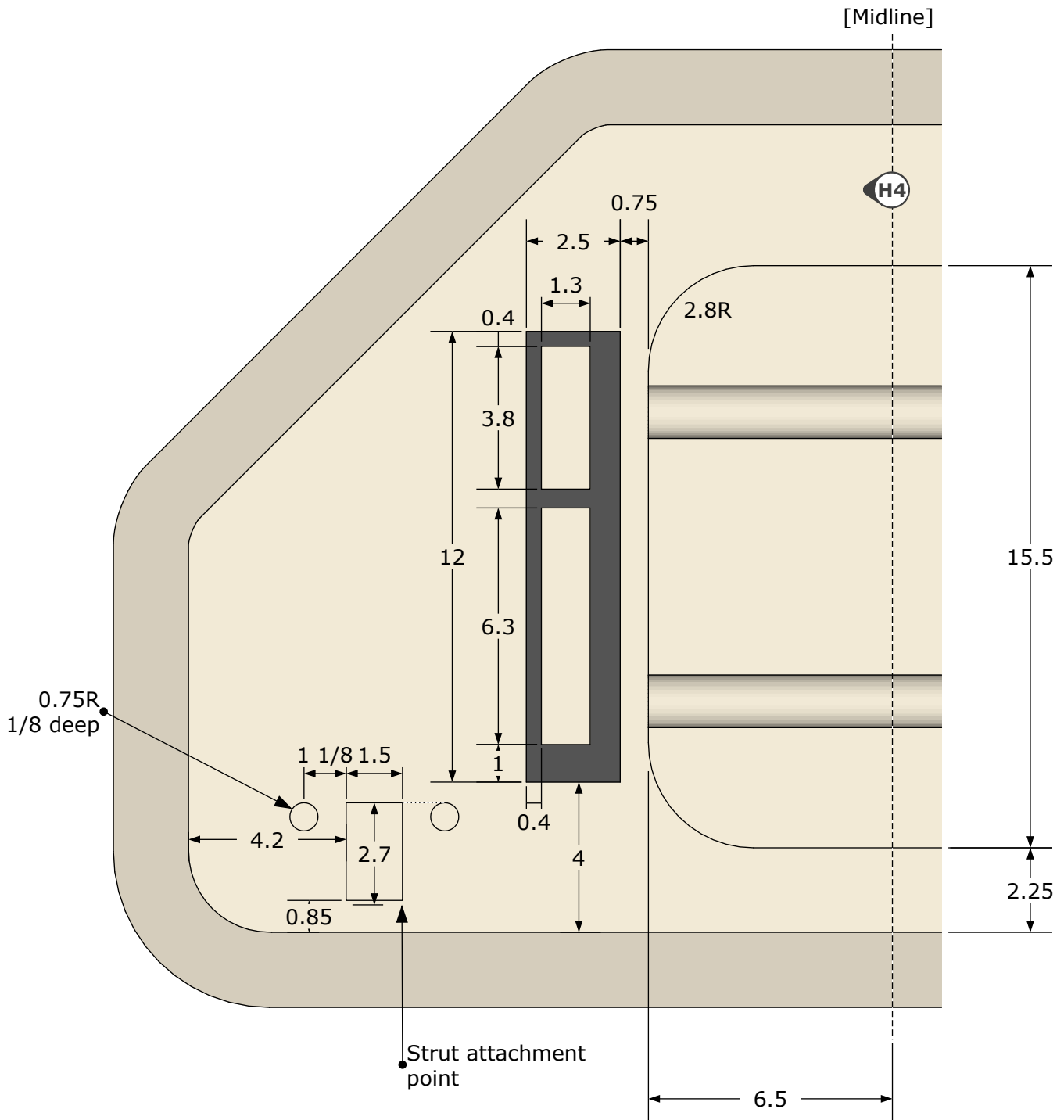


Note: Tray contents changed each episode, and are not currently shown in these plans

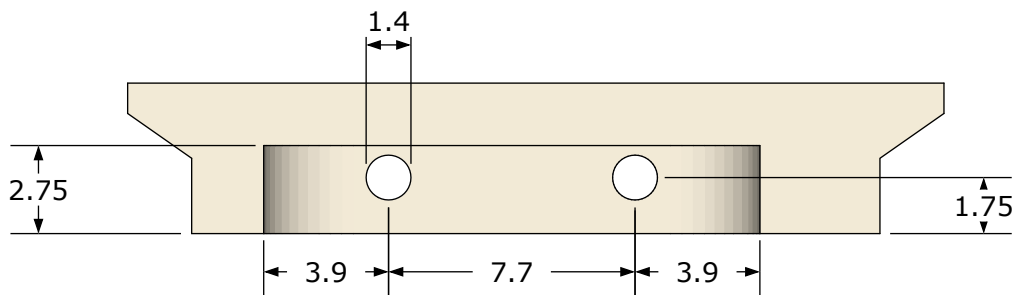
Hatch Lid



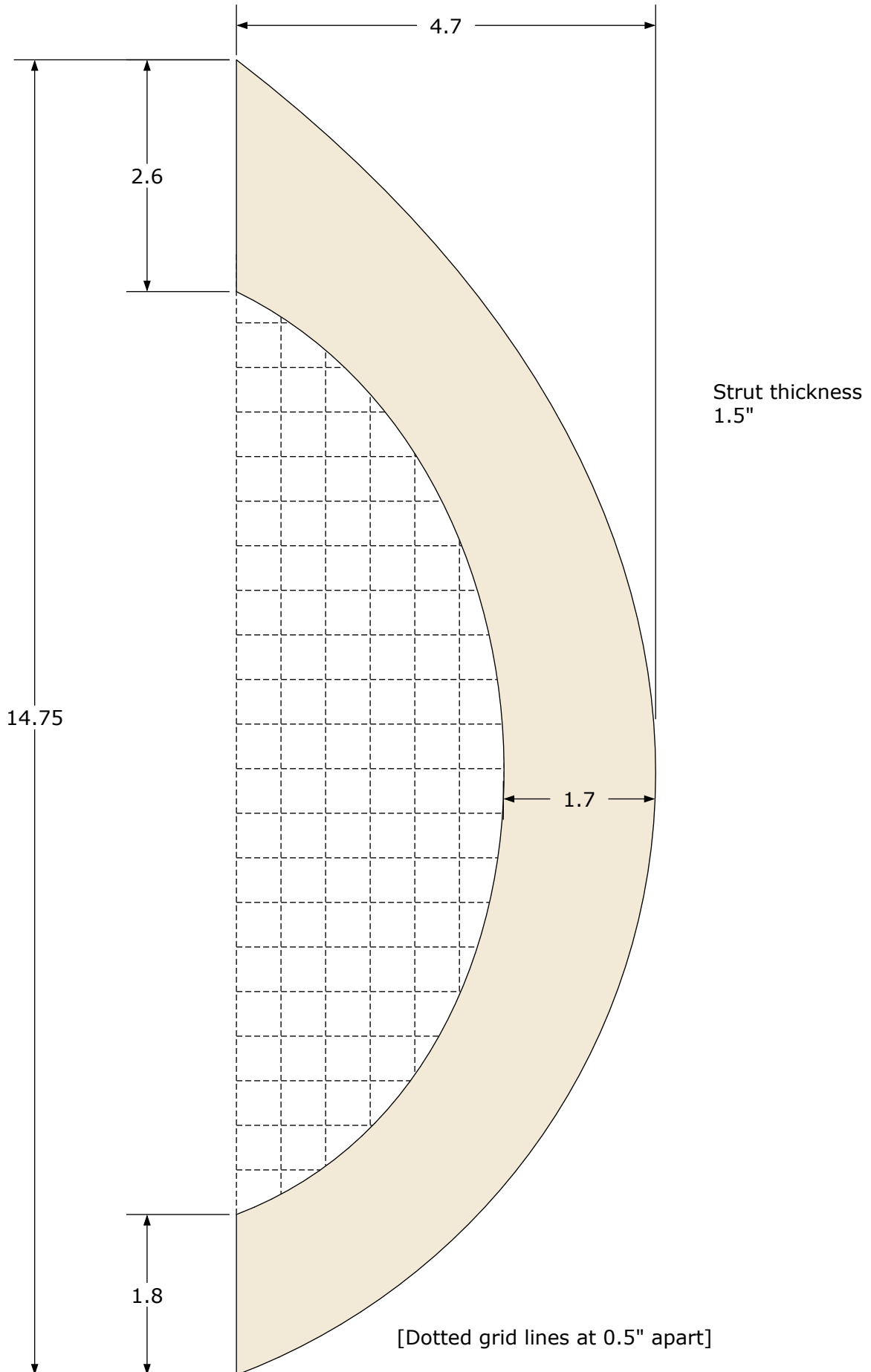
Lid Underside



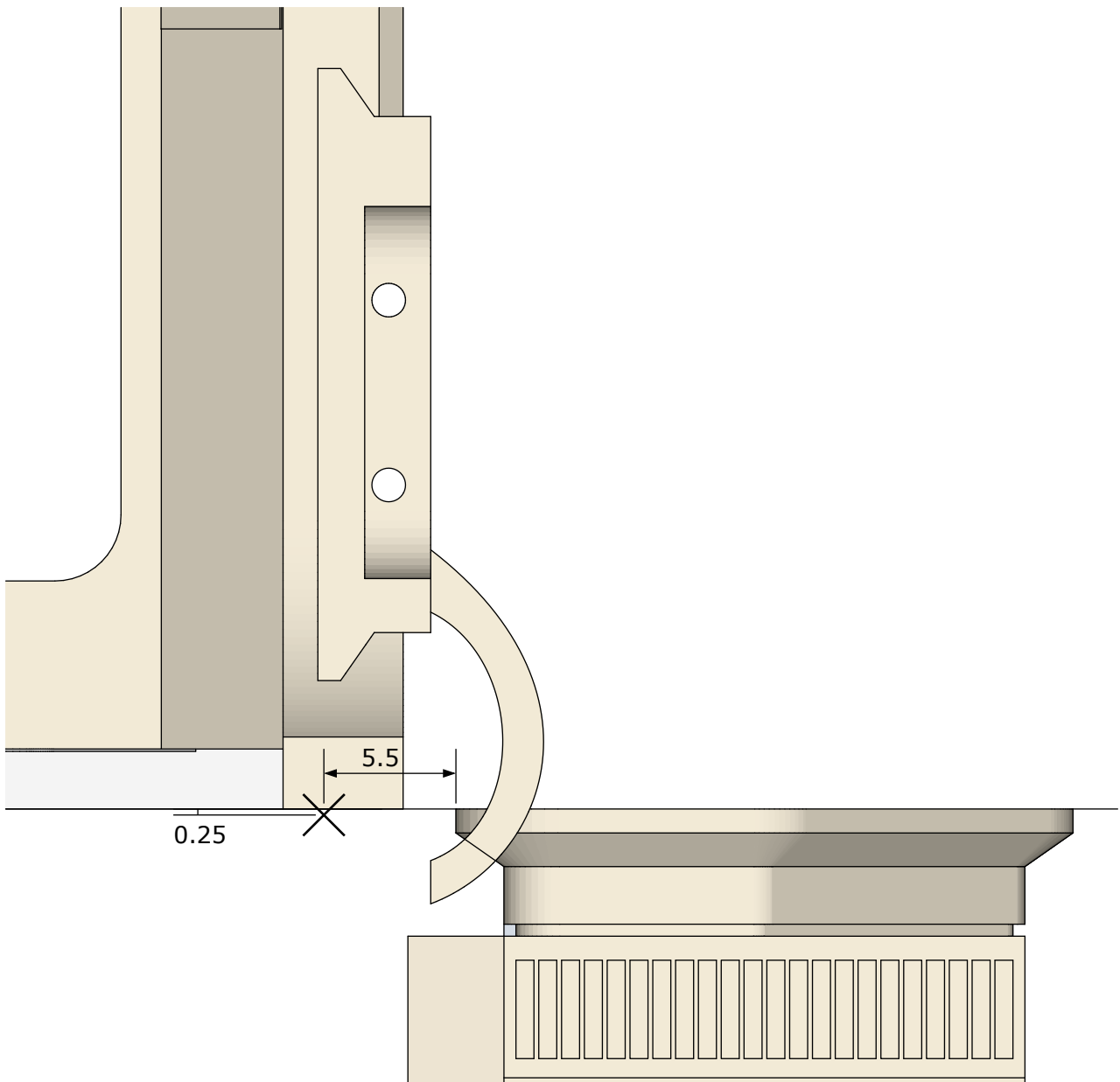
H4:



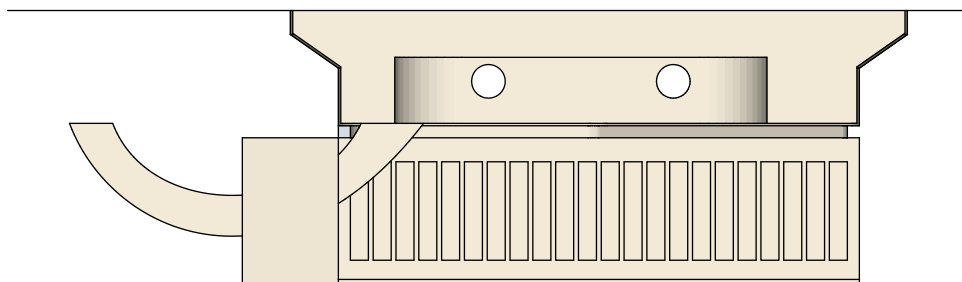
Hatch Strut



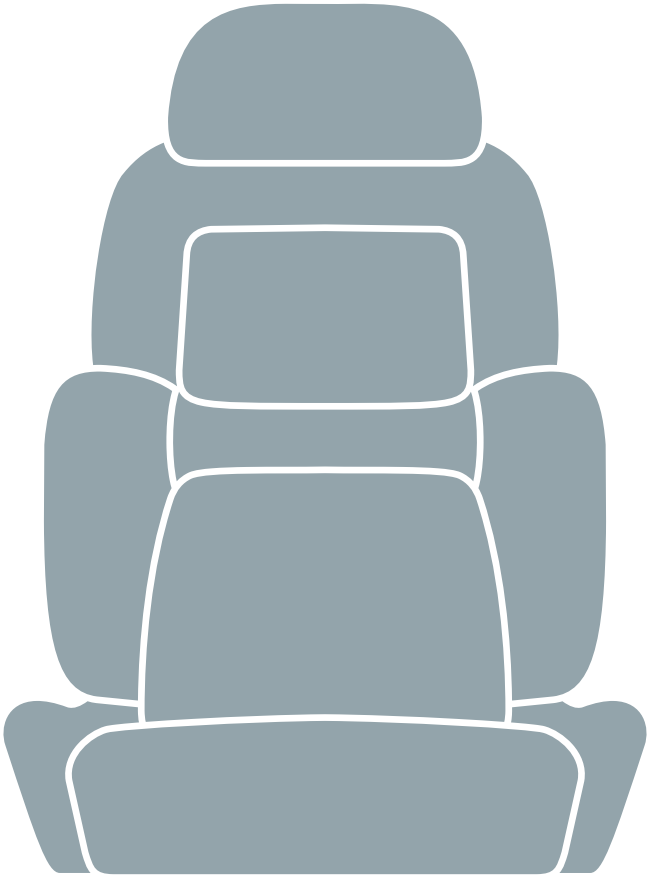
Rotation Point



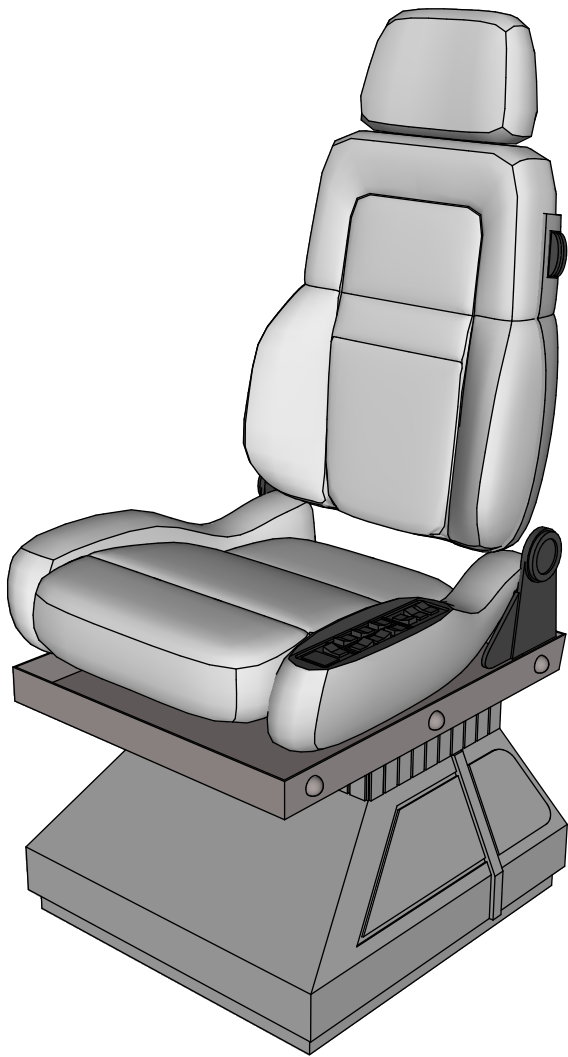
Lid in closed position:



CHAIRS



Chair Overview

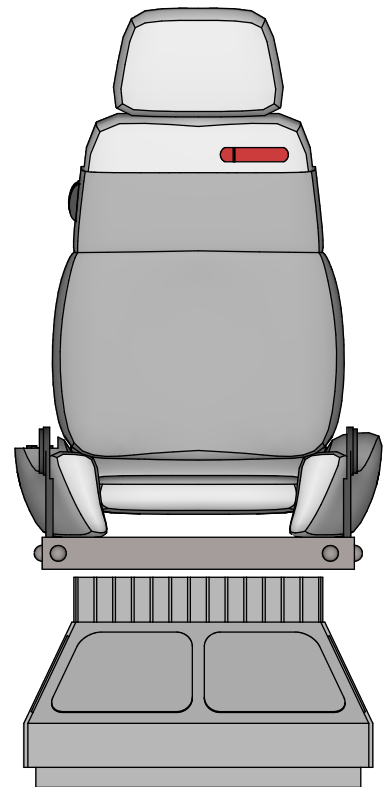
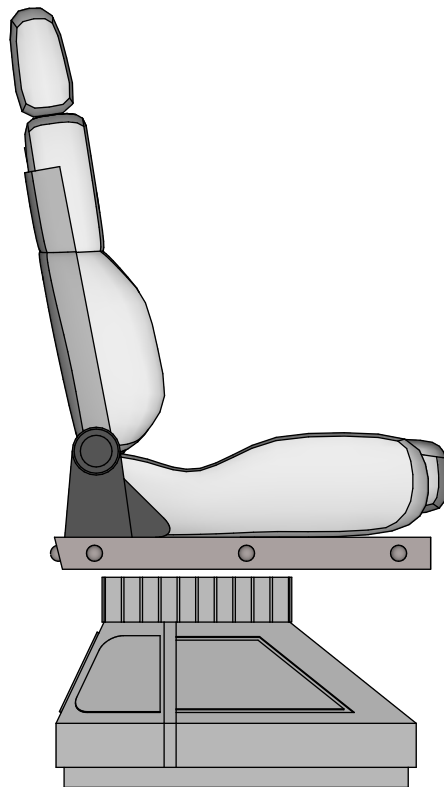
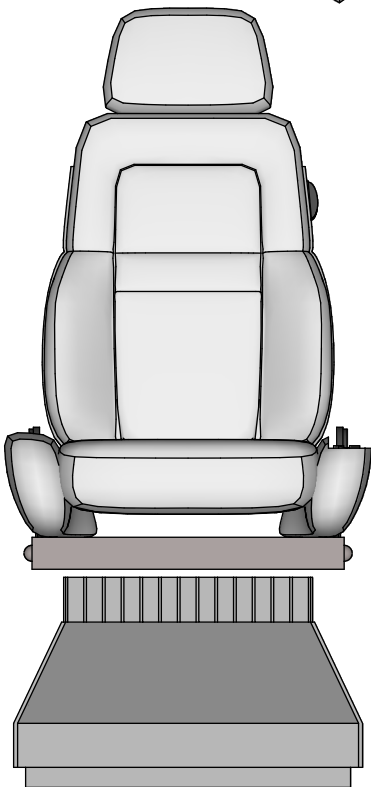


The Runabout chairs were made from Recaro CSE car seats.

Note: version shown is from season 3 onwards.

Season 1 and 2 had an additional headrest cage and back panel. Dimensions for these elements may be available in a later version of these plans.

Car seat model by Tadeo D'Oria



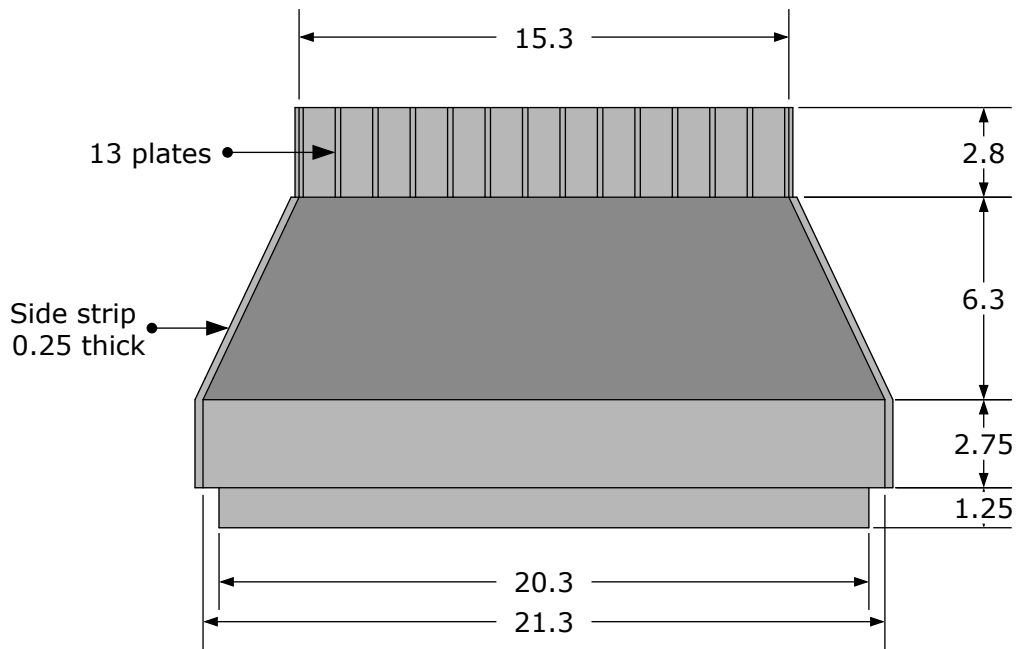
(Decimal Inches)

Chairs - 1

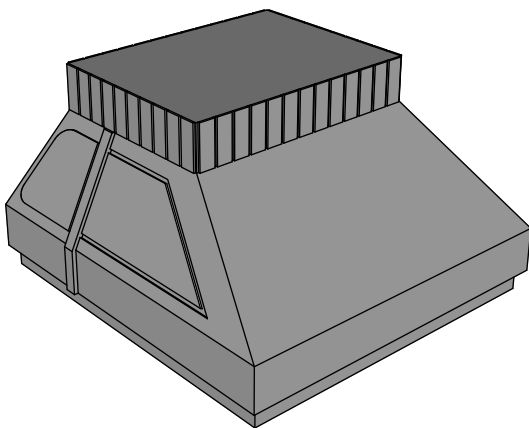
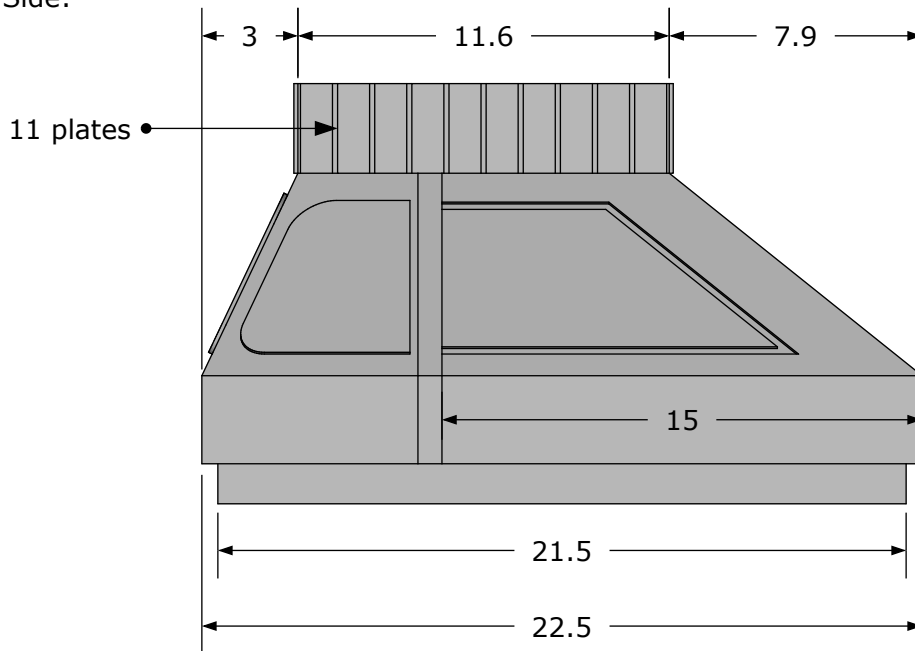
REDGENERAL

Base

Base Front:



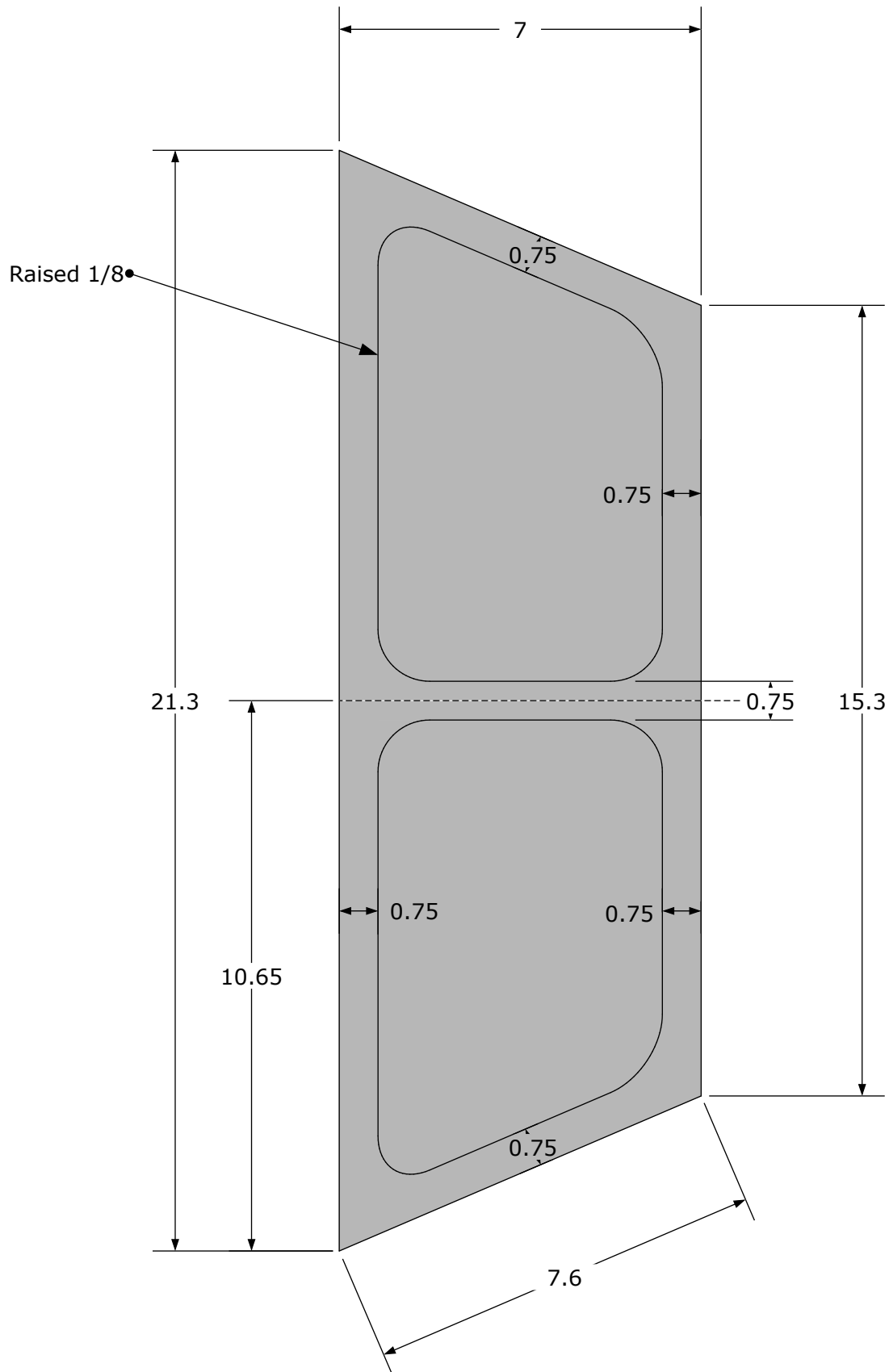
Base Side:



Each small plate w1, h 2.8, d 1/8.

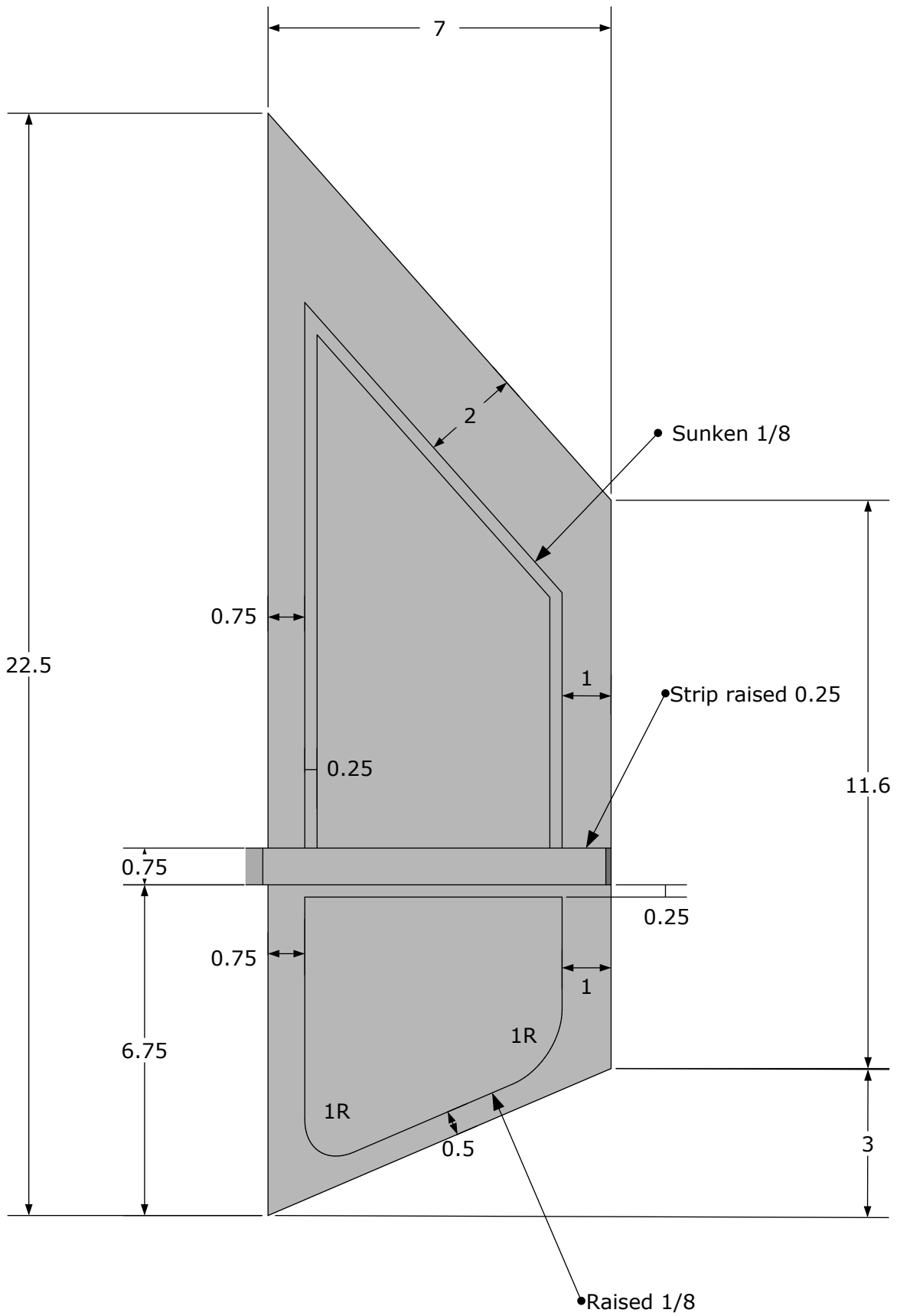
Rotation point mounted on centre base's top panel.

Rear Base Panel



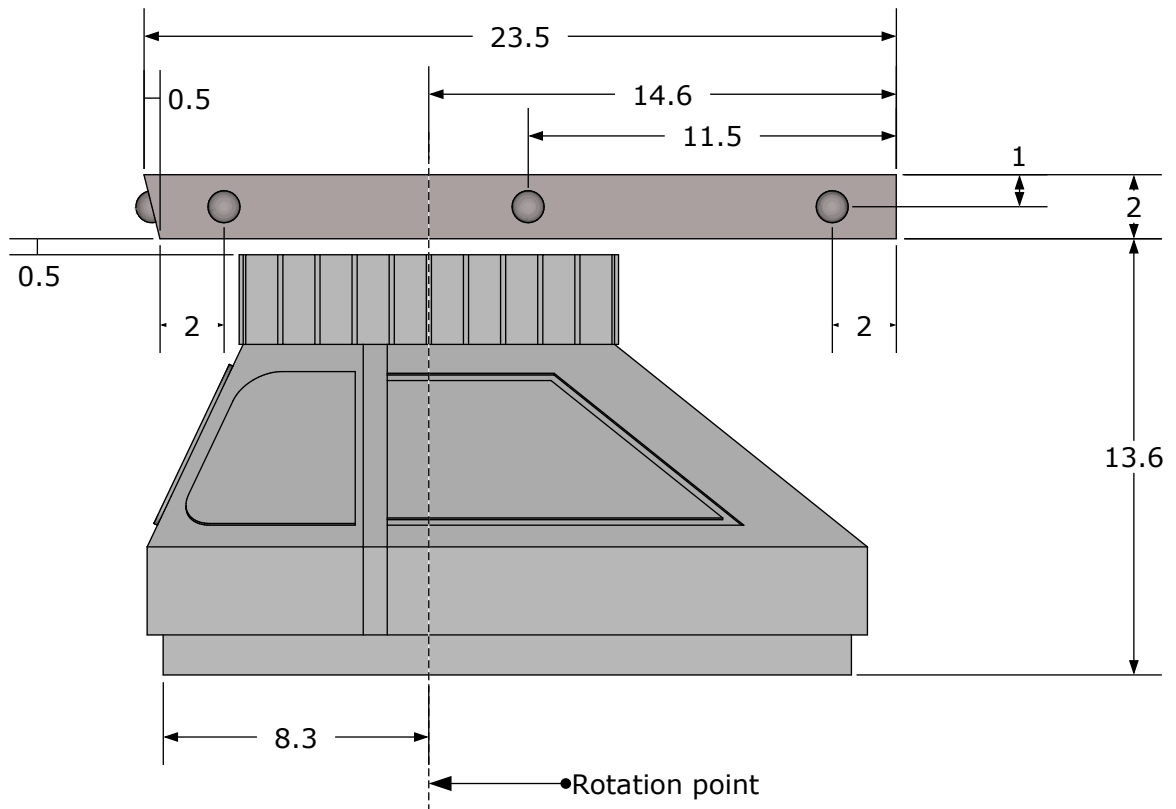
All rounded corners are 1" radius

Side Base Panels

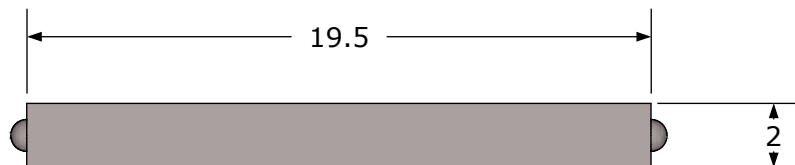


Tray

Tray Side:



Tray Front:

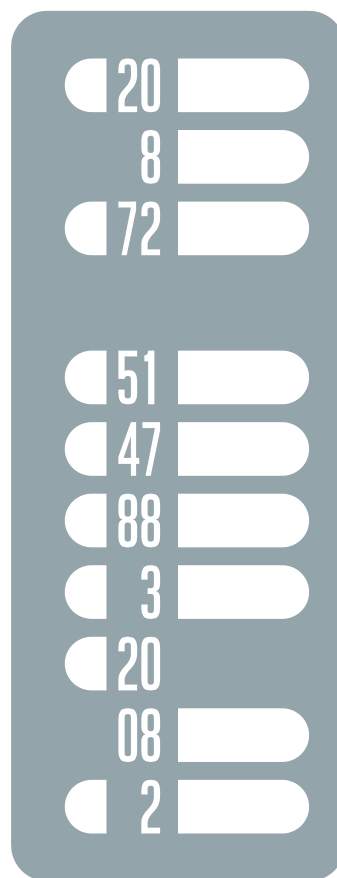


Tray Rear:

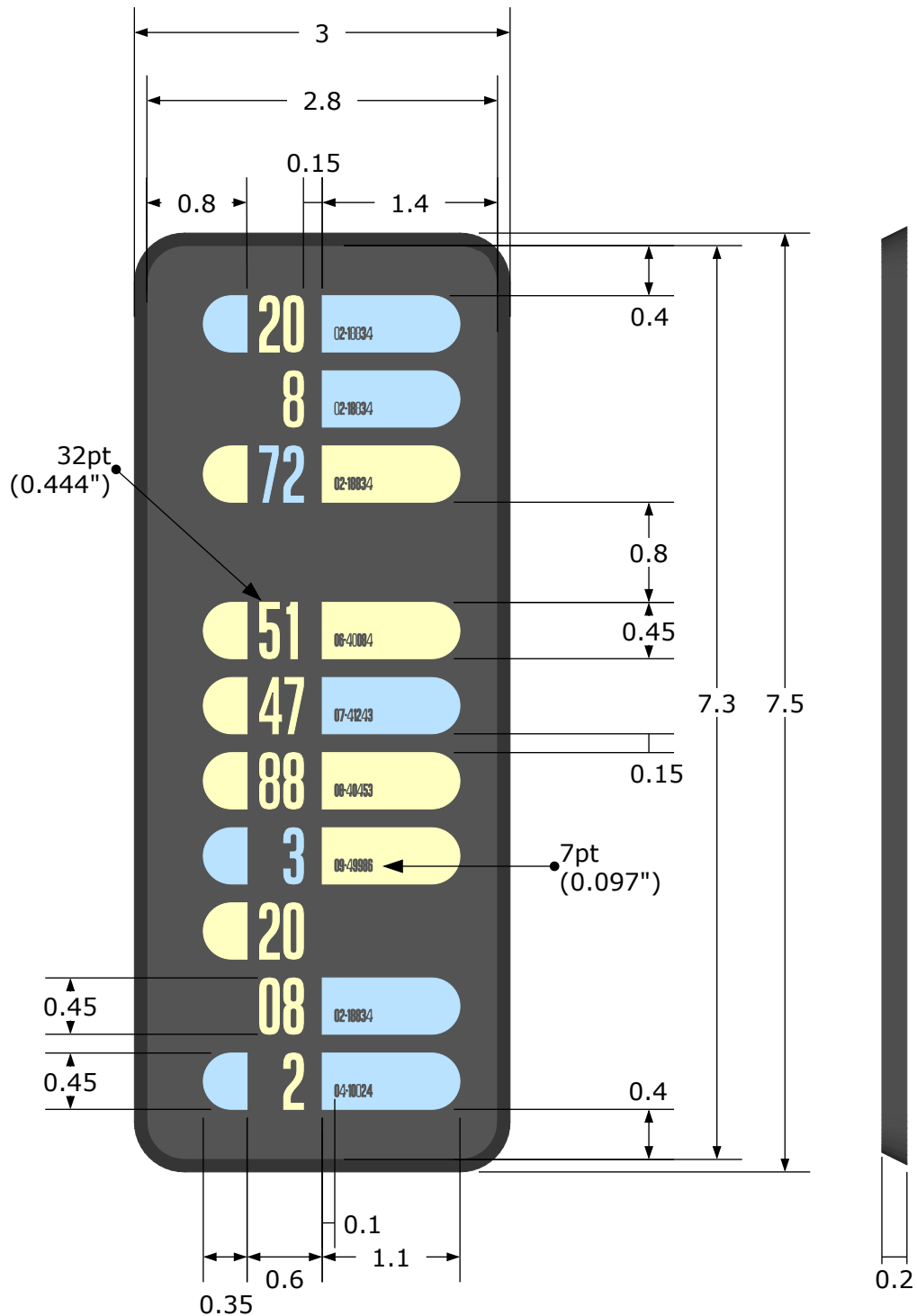


The car seat's mounting were attached inside the tray.

SET DRESSING



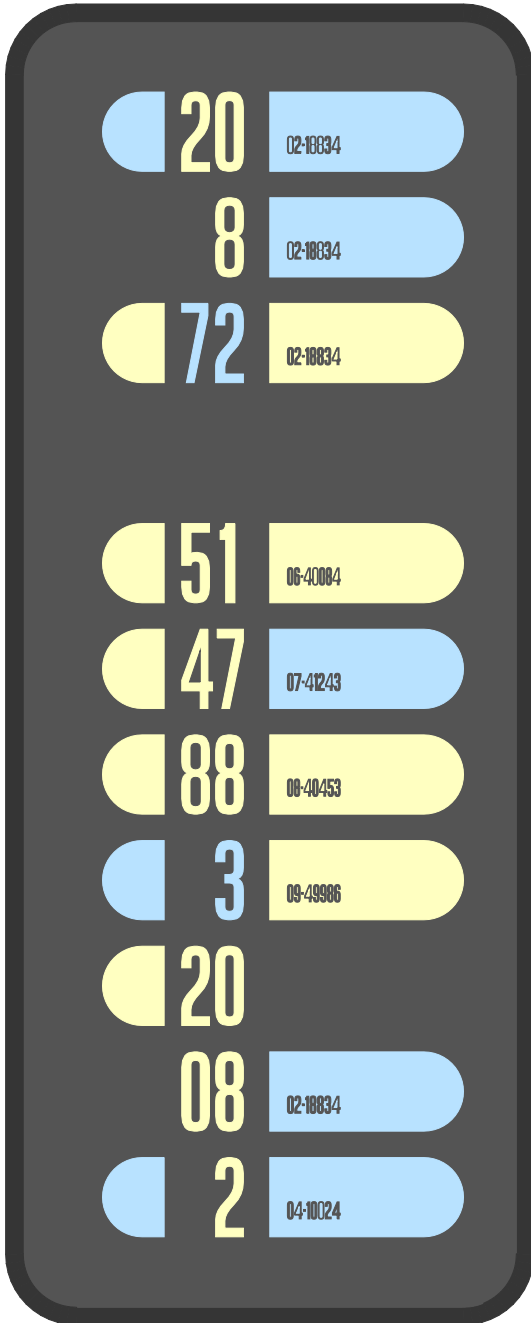
Control Panel



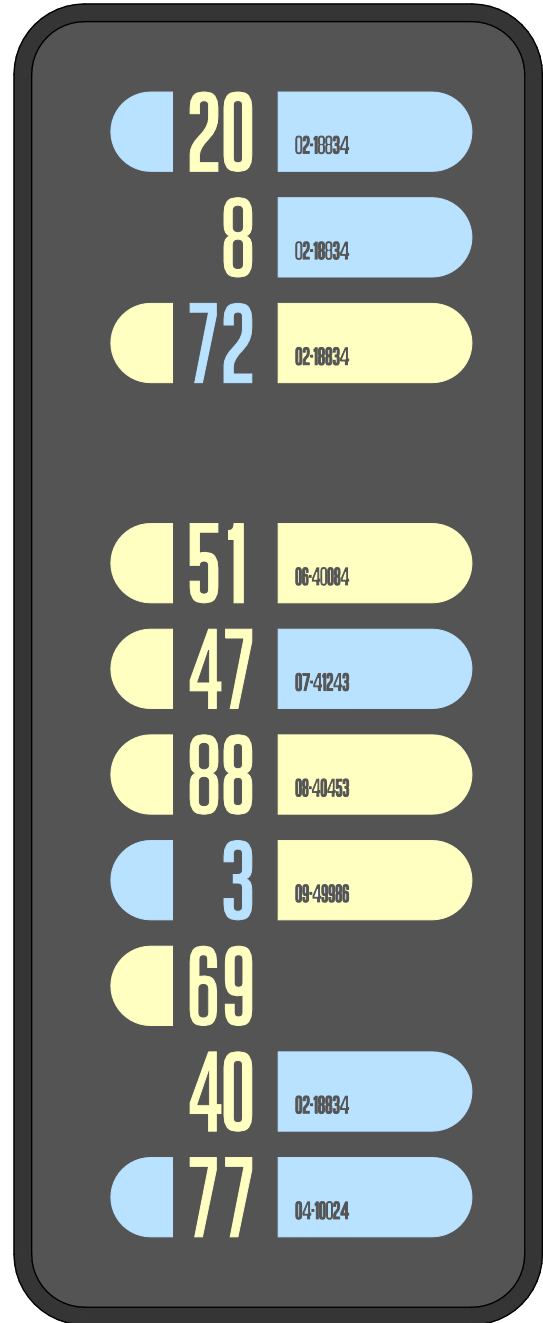
Note: interface is screen printed onto the base material.

Control Panel Variants

Variant A

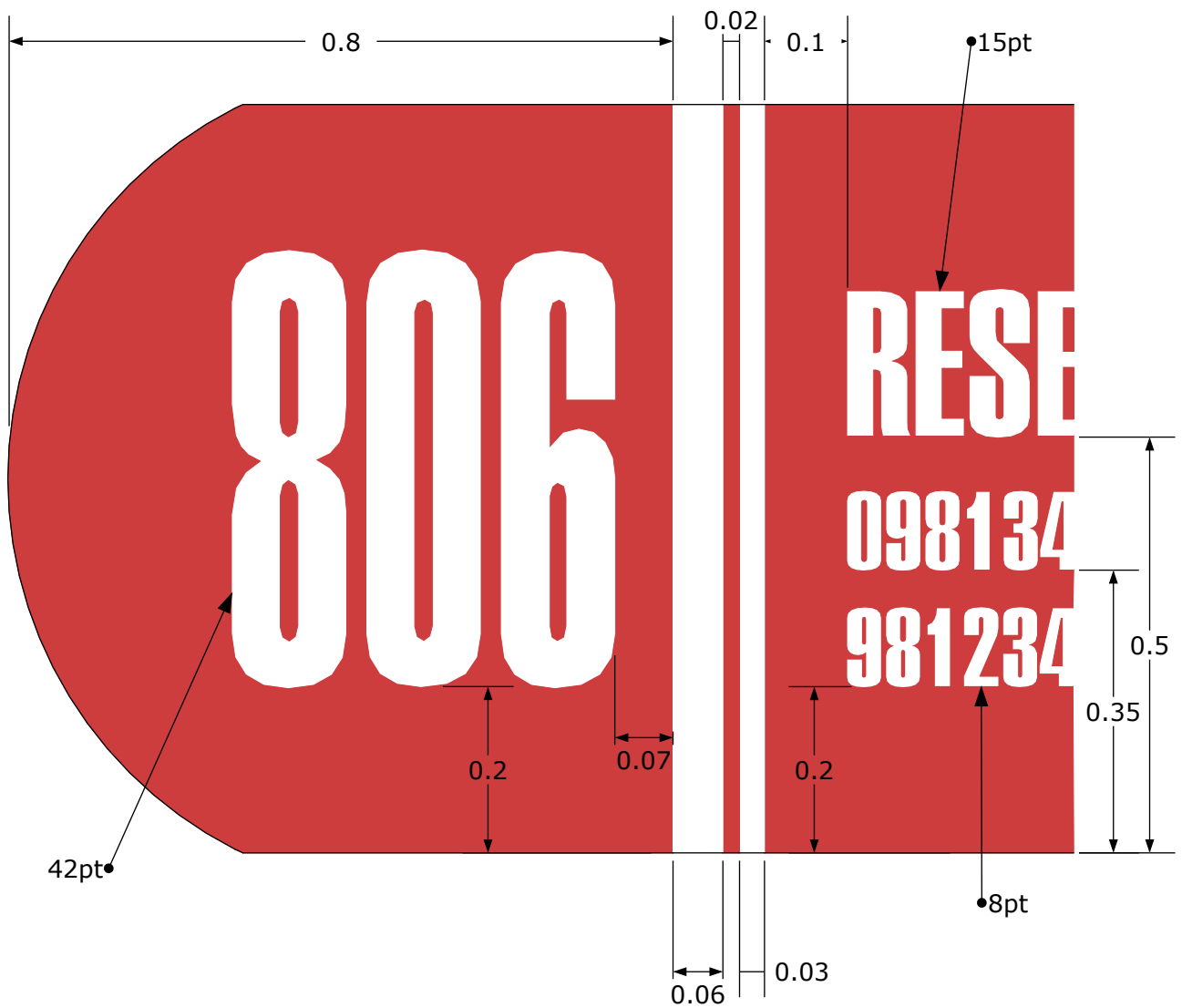
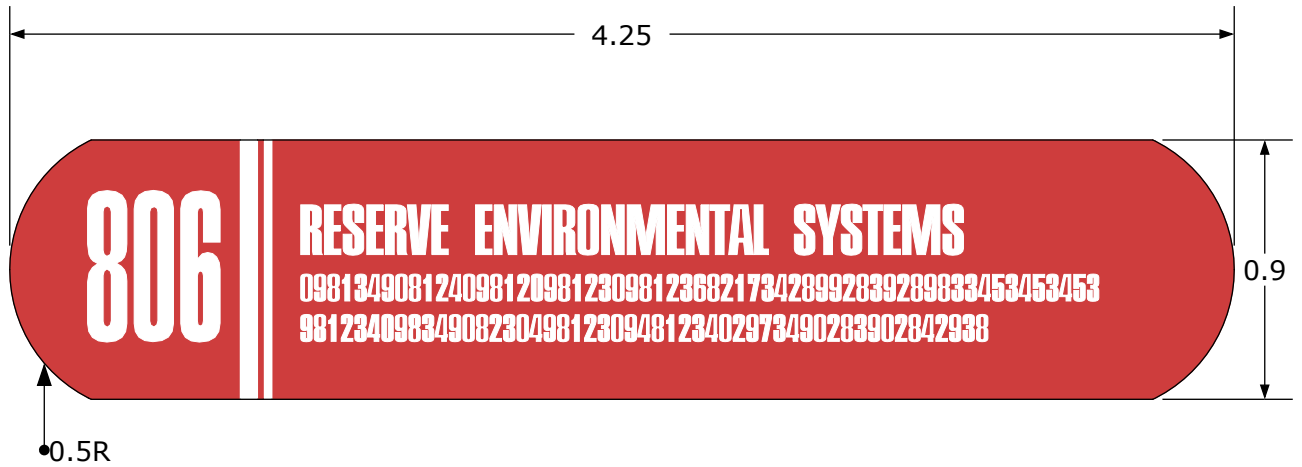


Variant B

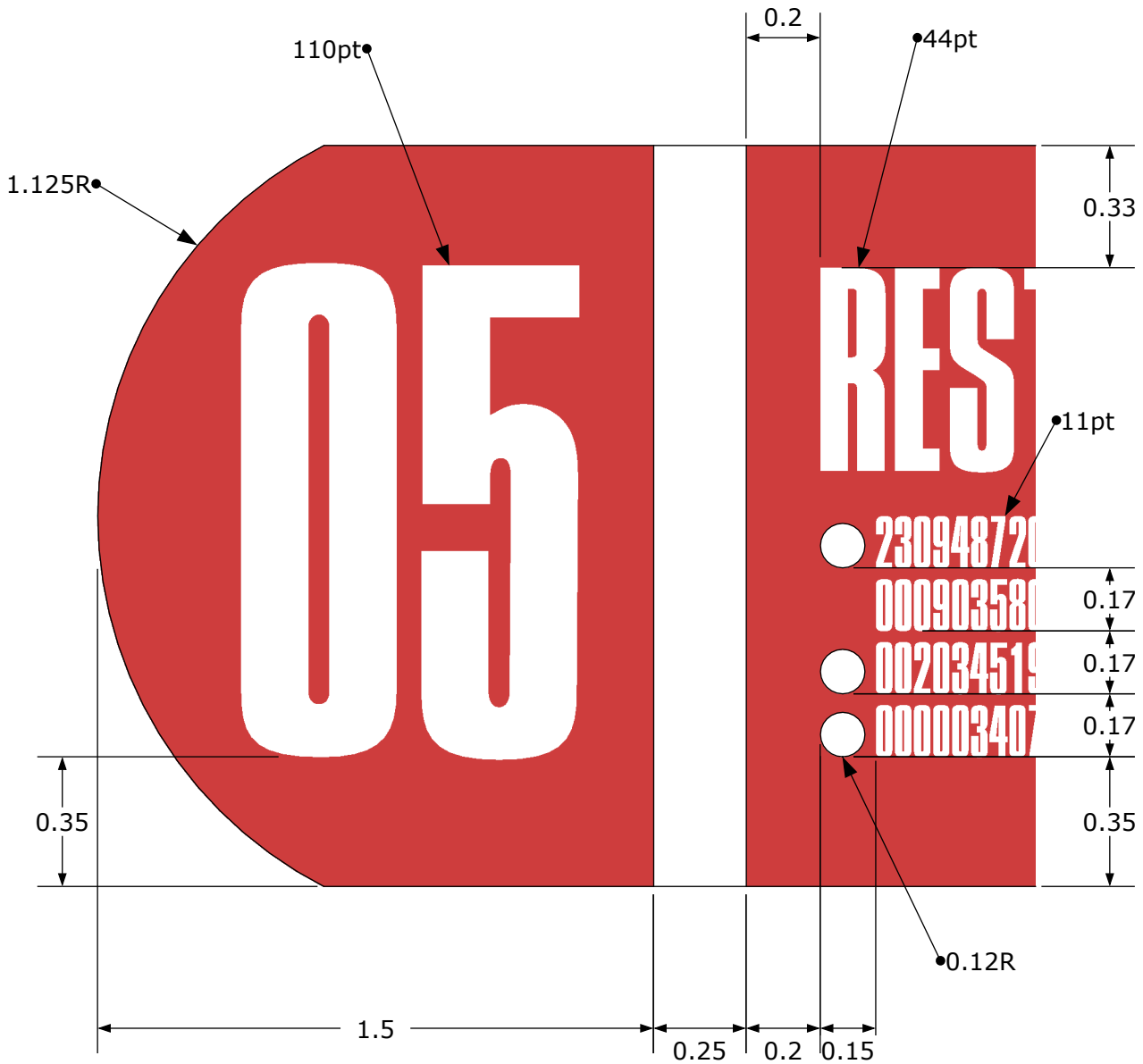
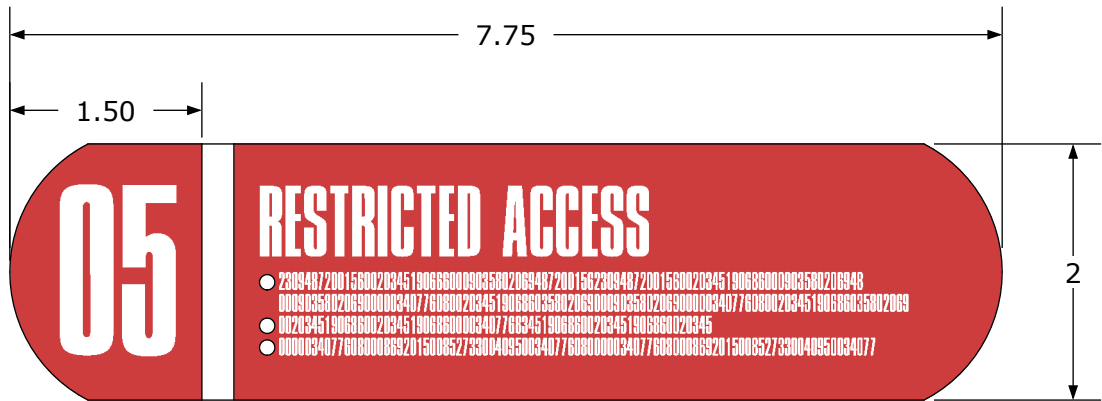


Unless otherwise stated, assume control panel is variant A

Small Set Label



Large Set Label



Silk Screen Font

A B C D E F G H I J K

L M N O P Q R S T

U V W X Y Z

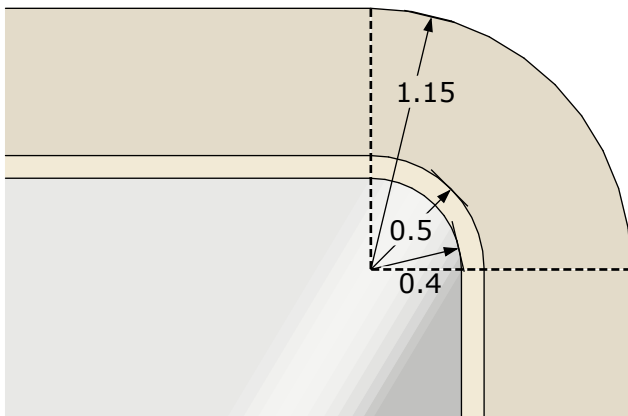
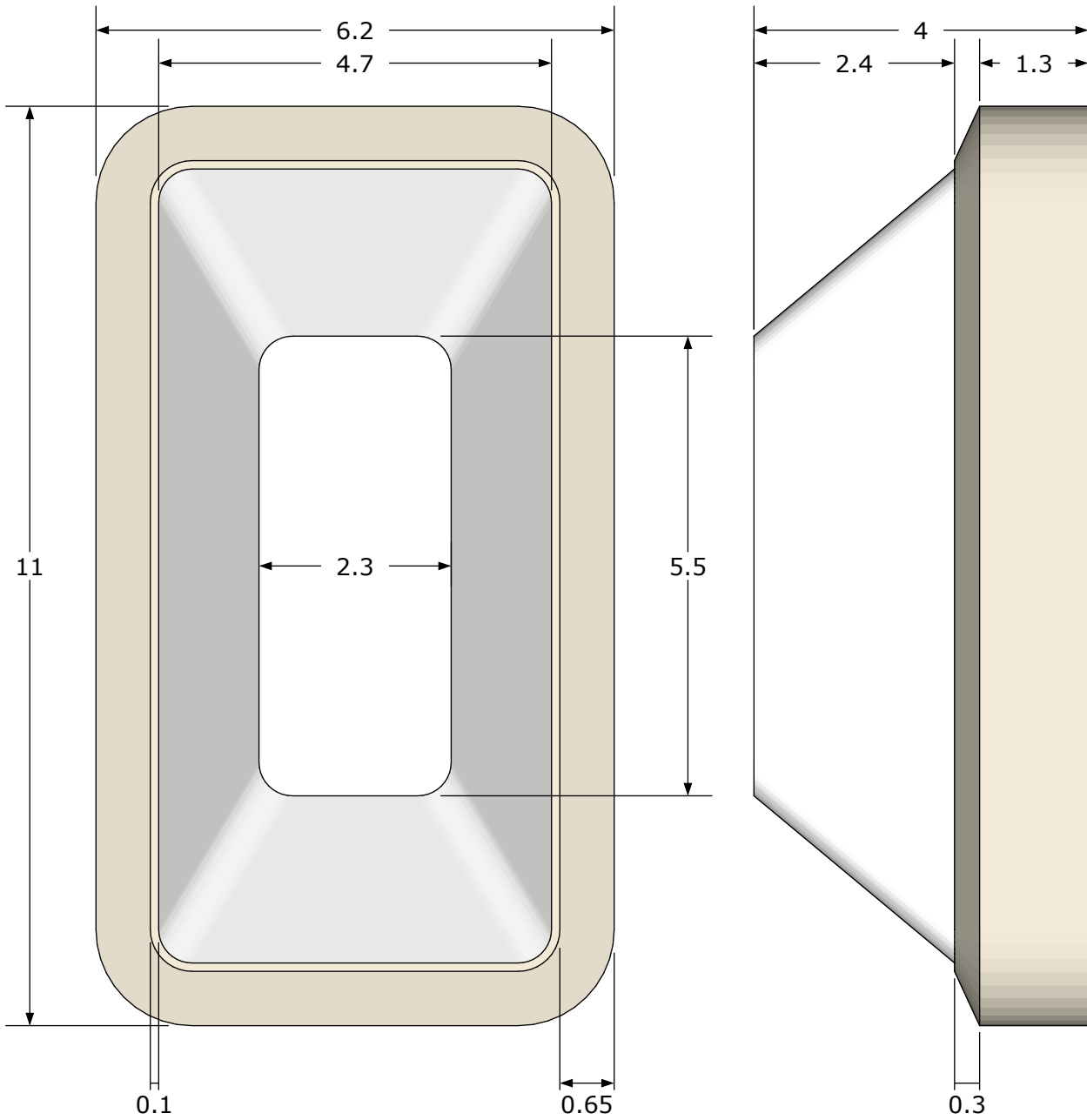
1 2 3 4 5 6 7 8 9 0

All silk screened elements (control panels, small labels, and large labels) used the font Compacta Light.

The font was applied using Letraset transfer sheets of various font sizes.

It should be noted that later digitised versions of the font do not match the original.

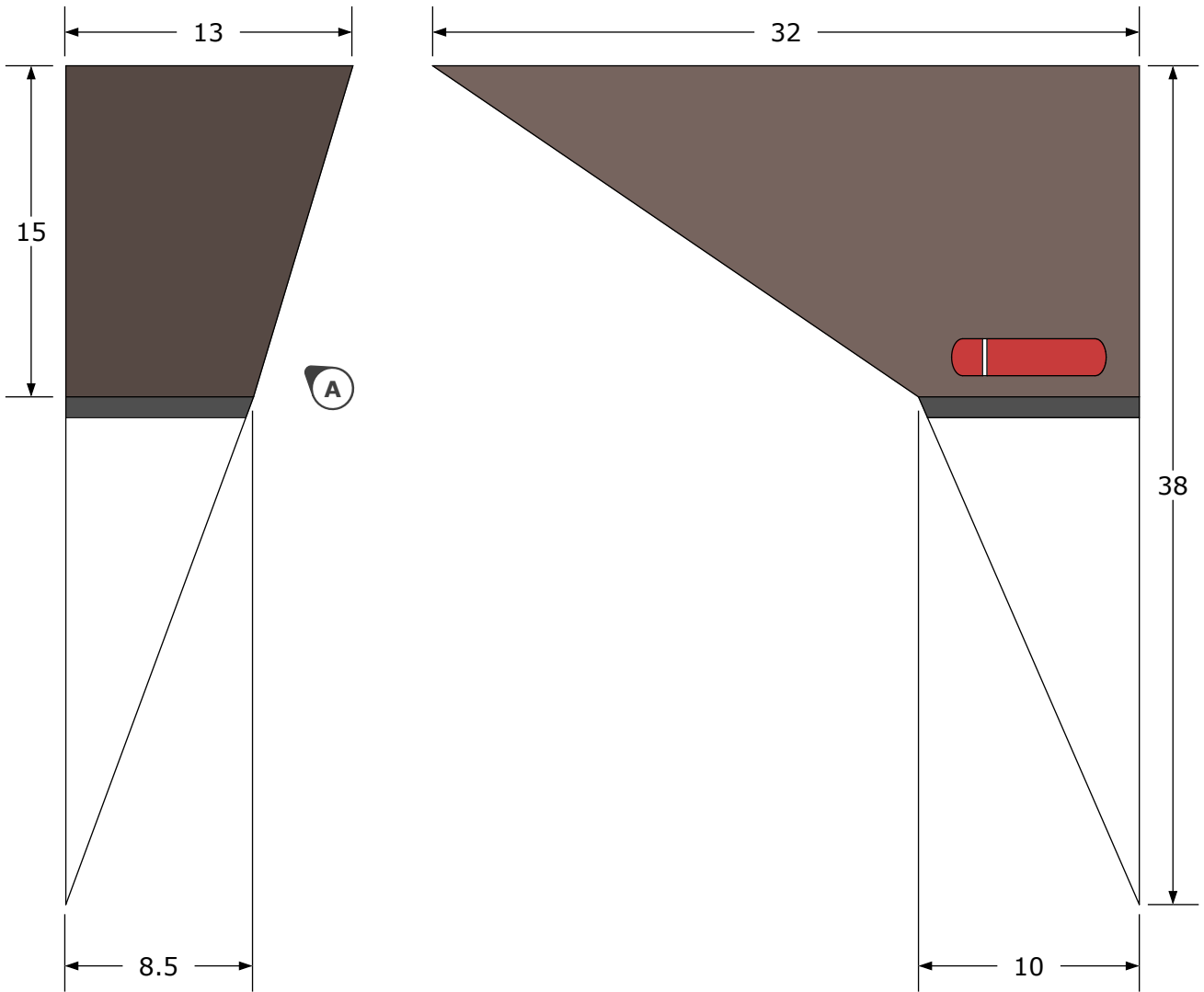
Oblong Lamp



The rounding of the top edge is not shown on this diagram for clarity. Rounding is approximately 0.1R

The light produces a warm soft glow.

Triangular Lamp



View A:

