### SLOPE

Ramps are required to have one foot of ramp for each inch of rise (ADA 1.27)

1 inch of rise = 12 inches of run
= approximate 5° angle

**ALL WOOD SHOULD FOR THE RAMP SHOULD BE PRESSURE TREATED.**

### Width of Ramp

42”-48” wide so the inside clear width between mounted handrails is at least 36” (ADA 1.25)

Try to avoid building near roof line; however, if ramp has to be built along roof line, consider snowfall and dripping water which freezes on ramp (gutter installation along ramp?)

![Ramp width](image)

### NON-SKID SURFACE

Ramps should have a non-skid surface - stable, firm and slip resistant (ADA 1.26)

Apply non-skid coating similar to Anvil Paint’s Gator Grip. Note: Cold weather options include IKO Ice & Water Shield or AZEK which can be installed in below zero conditions.

### Length of Ramp

No single run of ramp can exceed 30’ unless it has a 4’ long, level resting area at its mid-point

### SPACE BETWEEN BOARDS ON DECKING OF RAMP

ADA compliance: 1/2 inch maximum

Between boards
### 5’ x 5’ landing at top of ramp
Ramps must have at least a 5’ x 5’ clear, level landing at the top; flush with entrance door threshold.

### 5’ x 5’ landing at bottom of ramp
Ramps must have a 5’ x 5’ level, pad at the bottom of the ramp, level with driveway or parking area, so there is a smooth transition from driveway to pad to ramp. **NOTE:** Using a product similar to Tractor Supply’s 4 ft x 6 ft x ¾ inch “Thick Rubber Stall Mat” is ok in lieu of poured concrete or blacktop.

### 4’ x 4’ vertical posts every 6’-8’, both sides of ramp
For stability, ramps must be supported by 4’x4’ vertical posts every 6’-8’ on both sides of the ramp, as outlined in example to the right:

### Two 2’ x 6’ horizontal boards
On each side of the ramp, there should be at least two 2’ x 6’ horizontal boards attached to the 4’ x 4’ vertical posts.

**See SKETCH** for estimates of how many 4’x4’ vertical posts would be needed for this project

*SONOTUBES for houses
*DECKING SUPPORTS for rentals and mobile homes
<table>
<thead>
<tr>
<th><strong>Board 3” above ramp surface</strong></th>
<th>On each side of the ramp and landings (top and middle), there should be a board with its bottom no more than 3” to prevent the smaller front wheels of a wheelchair from going off the edge. (ADA 1.36)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HANDRAILS</strong></td>
<td>Ramps need handrails on each side. Handrails should be:</td>
</tr>
<tr>
<td></td>
<td>*1 ¼”-2” in diameter (ADA 1.33)</td>
</tr>
<tr>
<td></td>
<td>*Top edge 34”-38” above ramp surface, at height comfortable for peer (ADA 1.31)</td>
</tr>
<tr>
<td></td>
<td>*Distance between rails (width of ramp) at least 36” (ADA 1.25)</td>
</tr>
<tr>
<td></td>
<td>*Continuous, free of silvers, and not rotating within their fittings.</td>
</tr>
<tr>
<td></td>
<td>*Space between handrails and wall of building or sideboard of ramp = 1 ½” (ADA 1.32)</td>
</tr>
<tr>
<td><strong>This space should PREVENT a 4” diameter sphere from passing through.</strong></td>
<td><img src="image" alt="Diagram of ramp with handrails and measurements" /></td>
</tr>
</tbody>
</table>
### MAIN DOOR to the home

**EXISTING SCREEN OR STORM DOORS CANNOT BE REPLACED UNLESS APPROVED BY HAP** (Door would swing out, towards ramp.)

- Minimum of a 32” clear opening (ADA 1.41)
  - {Note: larger person in larger wheelchair may need larger doorway, ex. 34” or 36”}
- Lever type hardware with lock, 34”-48” above floor (ADA 1.44, 1.45)
- Threshold no higher than ½”, beveled down to ¼” on each leading edge
- Door should swing in

ENTRANCE DOOR SHOULD BE INSULATED FIBERGLASS DOOR

- With lever type lockset
- Existing screen and/or storm doors cannot be replaced unless approved by HAP prior to the installation

If applicable:

**Peer wishes to keep these items** and NOT have them taken away as part of the normal construction process:

### STAIRS

In general, VCIL does not put stairs in with a ramp.

In situations where that is necessary, these are the guidelines for steps:

- **Stair tread** (the part you step on) must be a minimum of 11 inches “deep”
- **Stair riser** (the distance between one step to the next) must be between 4 inches and 7 inches “high”

**Step riser height uniformity** (<= 3/8" variation) - this means that more than 3/8 of an inch in variation of the height of steps from one step to another is a tripping hazard.