

Categorical Permission Alteration Description – 20. Stairs and Handrails

The categorical permission covers the installation, modification, and replacement of stairs and handrails that comply with certain terms and conditions. Stairs must be made of concrete, rock, brick, or other sufficiently durable inorganic materials. Wooden or wood-based products must not be used.

Waterside stairs must be built into the levee, flush with the slope to avoid creating eddy currents in the adjoining channel. The profile of the stairs must not protrude above the face of the slope. Handrails are not allowed on the waterside levee slope or on the levee crown.

No part of the stairs or its foundation may extend deeper than 12 inches into the levee.

Categorical Permission Alteration Checklist – 20. Stairs and Handrails

Please note, the following checklist is intended for planning purposes only and reflects information that USACE reviewers will look for when considering a Section 408 request for stairs and handrails under the Categorical Permission. To be reviewed under the Categorical Permission, the proposed project must adhere to all requirements of the Categorical Permission, including the full alteration description (see previous page). The plans and narrative project description should reflect this information.

Installation Modification Replacement

Stairs will be made of concrete, rock, brick, or other sufficiently durable inorganic materials, stairs will not be made of wood or wood-based products:

Waterside stairs will be built into the levee, flush with the slope: Yes NA

No part of the stairs or its foundation will extend deeper than 12 inches into the levee:
Yes NA

The profile of the waterside stairs will not protrude above the face of the levee slope: Yes
NA

No handrails will be constructed on the waterside levee slope or on the levee crown:
Yes NA

Hydraulic blockage calculation $\geq 1\%$? Yes No

Hydraulic model used for hydraulic analysis? Yes No