Nexus 21 TV Weatherproofing Requirements for Outdoor TV Lift Cabinets

Nexus 21 lift systems have been used successfully in many outdoor applications. Our products perform well in both high and low-temperature ranges, but they cannot be subjected to direct contact with water.
Allowing water to contact the lift system will cause it to fail, and will void the warranty.

To use a Nexus 21 product in outdoor conditions, **you must have your contractor create a waterproof enclosure for it**. This document provides you with waterproofing requirements. It is very important that you share this information with everyone who is involved with the installation.

IMPORTANT: These requirements are ADDITIONAL steps you must take to waterproof your lift enclosure, ***but please be aware that you must still follow all other steps shown in the instruction manual.***
FAILURE TO COMPLETE ALL OF THESE REQUIREMENTS WILL VOID THE PRODUCT WARRANTY.

List of Steps to Take to Weatherproof the Cabinet that Encloses Your TV Lift

1. Ensure that lift mechanism is not mounted directly to the bottom of the enclosure. The motors of many of our lift systems are located at the bottom of the mechanisms, so it is important to use spacers to raise the lift at least an inch above the bottom of the enclosure, and to incorporate drainage holes, in case water does get into the cabinet.

2. Ensure that the control box is not mounted directly to the enclosure, and that it is protected from direct water contact. Use spacers to mount the control box away from the wall of the enclosure, so that if water drips down the inside wall, it will not contact the control box.

3. Seal the interior/exterior surfaces of the enclosure against water entry. Some building materials used to create the enclosures are porous and can allow moisture to enter. Epoxies and other sealants can be used to coat the walls of the enclosure in order to prevent humidity/ condensation from entering through the porous material.

4. Use one or more of the following methods to prevent water from entering the enclosure through the top, where the TV raises.

- ✓ **Method 1: Create a built-up or raised edge** around the top opening, so standing water cannot drop down into the enclosure. *See image 1 below.*
- ✓ **Method 2: Create a small ledge** around the inside of the opening, where the lid will rest when the TV is lowered, **then create a small drainage channel** to catch water and funnel it to a drain hole. *See image 2 below.*
- ✓ **Method 3: Use a rubber gasket to create a water-tight seal** under the "lid" of the enclosure. This can be accomplished by using a "bulb" shaped or "crush-style" rubber weather-strip or gasket which squeezes down to create a seal when the lid lowers onto the enclosure (you can find the rubber strips at hardware stores like Home Depot or Lowe's). This can be used in conjunction with outdoor-rated silicone if desired. *See image 3 below.*
- ✓ **Method 4: Create a special lid that prevents water from dropping down into the enclosure.** Instead of being flat, this lid would have edges all the way around, like the lid of a shoebox

Image 1: Built-up or raised edge around the top opening, to keep water from leaking in.

Image 2: Small ledge for the lid, with drainage channel around the opening.

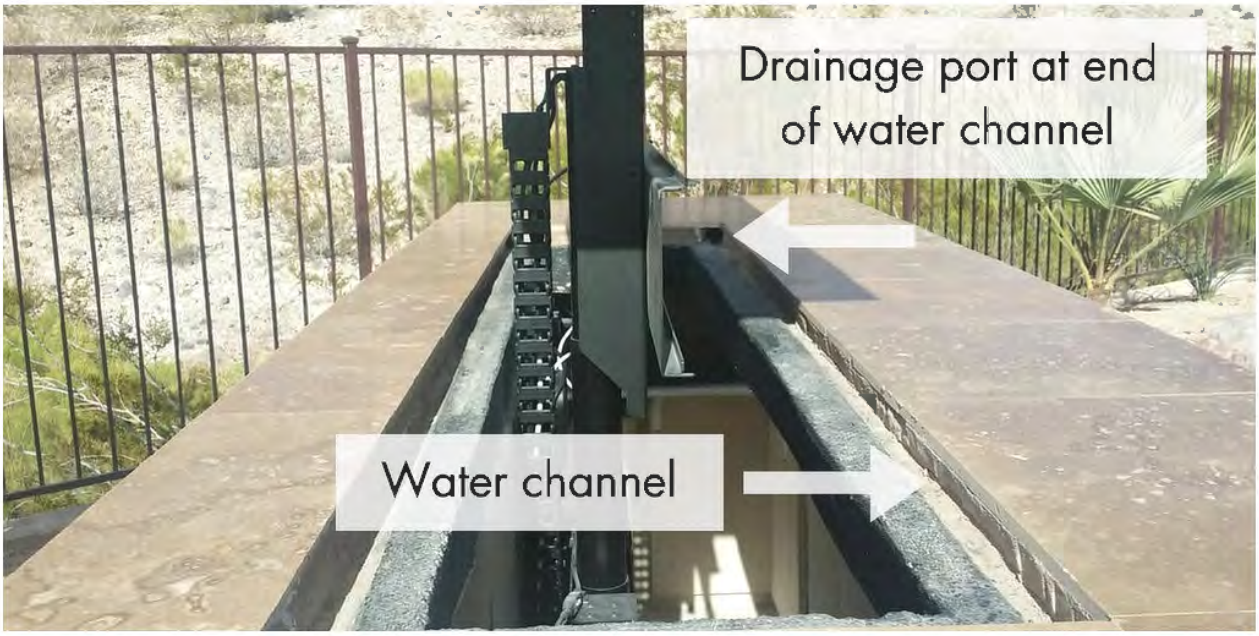
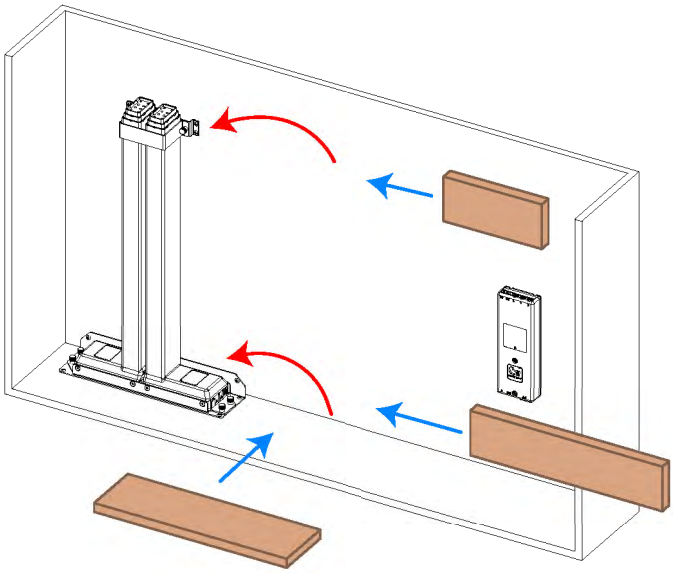
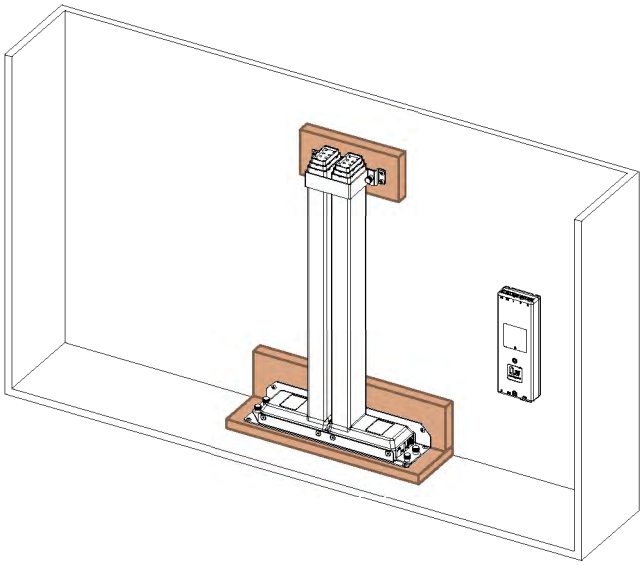
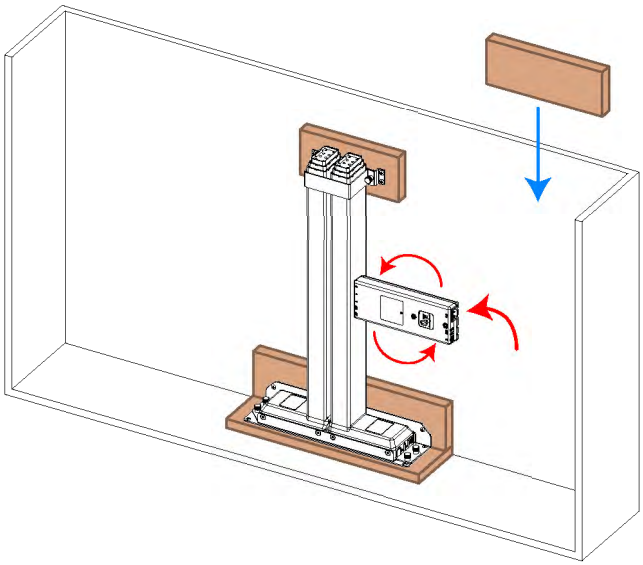


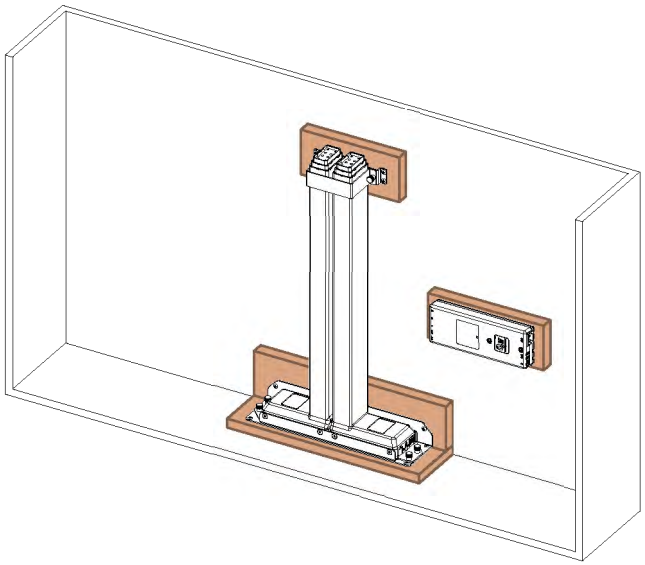
Image 3: Close-up of rubber weather strip, which squeezes down to create a seal when the lid lowers onto the enclosure. This can be used in conjunction with outdoor-rated silicone, if desired.

How to Create Platforms to Prevent Water From Contacting The TV Lift and Components





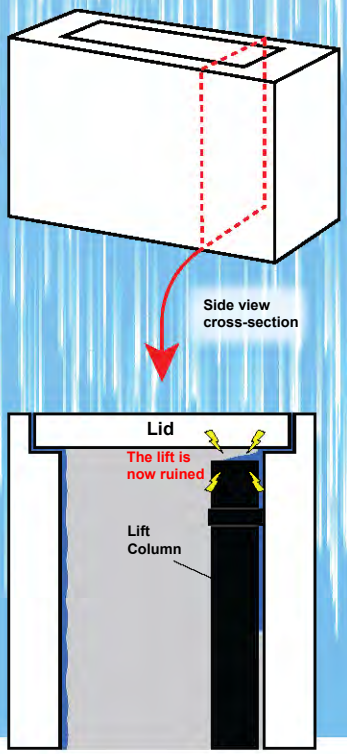




Your Cabinet Lid: How to Keep Water Out

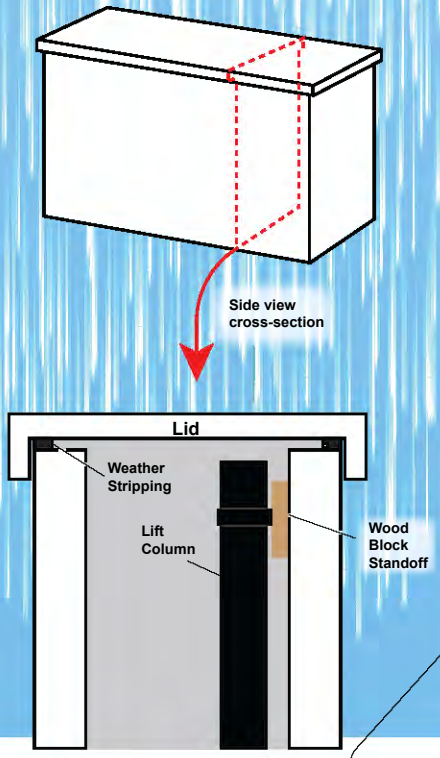
No precautions taken:

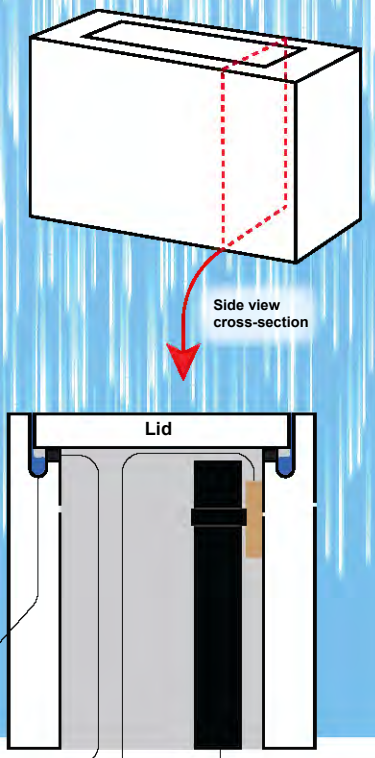
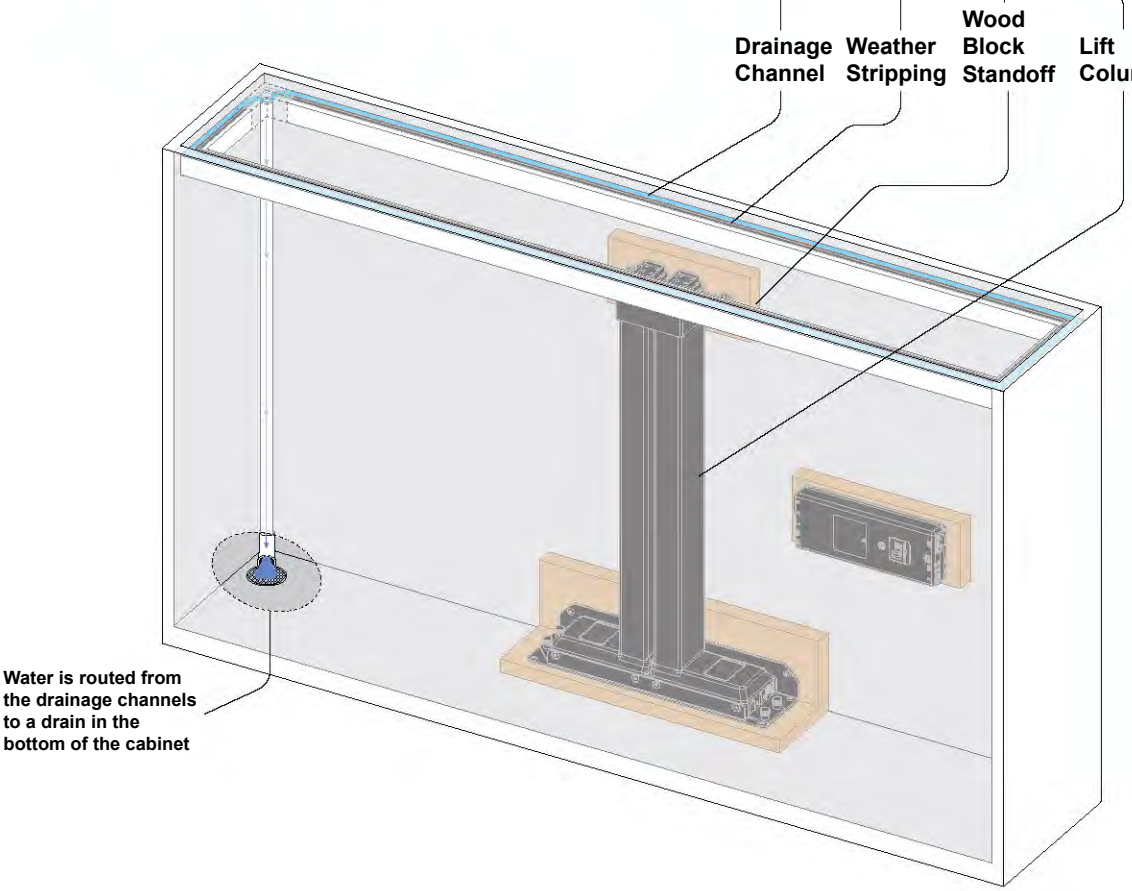
Water is allowed to enter the cabinet from the gap around the lid



Overhanging lid with weather stripping:

Water cannot enter the cabinet



Drainage channels with weather stripping:

Water that enters through the gap around the lid falls into drainage channels created in the inner rim of the cabinet. These channels route the water downward towards a drain created in the bottom of the cabinet, via hoses, PVC piping, etc.