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	Hollister-Whitney Rope Grippers and Lang Lay Ropes - Clarification	3/28/22	C	1 of 1	1153

Thank You for taking the time to investigate the use of Rope Grippers with Lang Lay Ropes.

Hollister-Whitney Rope Grippers have been installed in hundreds of applications without any issues related to Lang Lay Ropes. After much research and testing, the sticker you may see on Rope Grippers, as noted below, is null and void.



Figure 1: Sticker, No Longer Current

**Use of Rope Grippers with Lang Lay ropes is not prohibited;** however, if Rope Grippers are to be used with Lang Lay ropes, H-W advises it is extremely important to use ASME A17.1/CSA B44 compliant rope retention on the traction wheel and ALL deflector, car, and counterweight sheaves. This is strongly recommended due to issues that might occur with abrupt stops when the Rope Gripper is used in combination with other existing braking systems.

Background: The Rope Gripper itself used in combination with Lang Lay rope construction provides a deceleration that is somewhat greater than that of Regular Lay rope construction. This increased deceleration with Lang Lay rope is not a concern by itself as any deceleration under 1 (one) g  $32.2\text{ft/s}^2$  ( $9.81\text{ m/s}^2$ ) is acceptable by code.

However, in any braking system that includes multiple separate elements, when all elements are combined (primary and emergency brake) in lightly loaded or empty car conditions (for instance during a power outage when all braking systems are activated) stops in the down direction can be extremely abrupt and may resulting in loss of cable retention on wheels and sheaves, if the installation is not up to modern specifications with code compliant rope retention on all wheels and sheaves in the system.

This is true whether the entire braking system uses Rope Grippers as the emergency brake or not. It is Hollister-Whitney's recommendation that all current installations utilizing Lang Lay Ropes be brought up to modern specifications with code compliant rope retention on all wheels and sheaves in the system, whether Rope Grippers are used or not. The sticker in Figure 1 was initially replaced by the following:



Figure 2: Initial Sticker Change, No Longer Current

The newest sticker for Rope Grippers will appear as follows:



Figure 3: Current Sticker, Available from H-W Sales

Thank you once again for your interest in Hollister-Whitney products and the Rope Gripper in particular. If there are further questions or concerns, please do not hesitate to contact us.

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