SAFETY

Wire rope sling inspection checklist

The daily check of each wire rope sling before use, against the removal-from-service conditions in OSHA 1910.184(f)(5): broken wires, worn outside wires, kinking or bird caging, heat damage, end attachments, hooks and corrosion.

How often: **Each day before use, and during use where service conditions warrant** Who: **Competent person designated by the employer**

About 5 min **16 items**

Site or area _____ Asset or line _____

Date and time _____ Completed by _____

Before you use it

- OSHA 29 CFR 1910.184(d) requires each sling and all fastenings and attachments to be inspected for damage or defects each day before use by a competent person designated by the employer, with additional inspections during use where service conditions warrant. Damaged or defective slings are removed from service immediately.
- Under 1910.184(f)(5), a wire rope sling is removed from service immediately for ten randomly distributed broken wires in one rope lay or five broken wires in one strand in one rope lay; wear or scraping of one-third the original diameter of outside individual wires; kinking, crushing, bird caging or other damage that distorts the rope structure; evidence of heat damage; cracked, deformed or worn end attachments; hooks opened more than 15 percent of the normal throat opening at the narrowest point or twisted more than 10 degrees from the plane of the unbent hook; or corrosion of the rope or end attachments.
- Only slings with permanently affixed, legible identification are used: the recommended safe working load for the hitch types, the angle it is based on, and the number of legs if more than one (1910.184(f)(1) and (c)(13)–(14)). Fiber core slings exposed to temperatures above 200 °F are permanently removed from service (1910.184(f)(3)), and the proof-test certificate for welded end attachments is retained (1910.184(f)(4)). Add the sling manufacturer's criteria.

Sling

NO.	ITEM	RESULT	NOTES
1	**Scan the sling tag**	☐ Visited	
2	**Identification permanently affixed and legible: safe working load for each hitch, angle and number of legs**	☐ Pass ☐ Fail ☐ N/A	
3	**Sling identification as marked**	_____	
4	**Core**	☐ Fiber core ☐ Nonfiber core	

Rope

NO.	ITEM	RESULT	NOTES
5	**Broken wires in the worst rope lay** Remove from service at ten randomly distributed broken wires in one rope lay, or five broken wires in one strand in one rope lay.	_____ wires Limit _____	
6	**Outside wires not worn or scraped by one-third of their original diameter**	☐ Pass ☐ Fail ☐ N/A	

NO.	ITEM	RESULT	NOTES
7	**No kinking, crushing, bird caging or other distortion of the rope structure**	☐ Pass ☐ Fail ☐ N/A	
8	**No evidence of heat damage**	☐ Pass ☐ Fail ☐ N/A	
9	**No corrosion of the rope**	☐ Pass ☐ Fail ☐ N/A	
10	**Not shortened with knots, bolts or other makeshift devices**	☐ Pass ☐ Fail ☐ N/A	

End attachments and hooks

NO.	ITEM	RESULT	NOTES
11	**End attachments, sleeves and thimbles not cracked, deformed, worn or corroded**	☐ Pass ☐ Fail ☐ N/A	
12	**Hooks not opened more than 15 percent of the normal throat opening, not twisted more than 10 degrees**	☐ Pass ☐ Fail ☐ N/A	
13	**Hook latches, where fitted, close and hold**	☐ Pass ☐ Fail ☐ N/A	

Result

NO.	ITEM	RESULT	NOTES
14	**Result**	☐ Fit for use ☐ Removed from service	
15	**Photo of any defect**	☐ Photo taken	
16	**Competent person**	Name _____ Signature _____ Date _____	

Follow-up

For each failed check or reading out of limit: what was found, what was done, and the work order raised for it.

NO.	WHAT WAS FOUND	ACTION OR WORK ORDER	OWNER	DUE

References

- OSHA 29 CFR 1910.184, slings
  https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.184

Free to use and adapt. To run it on mobile, with checkpoint scans, readings checked against their limits as they are entered, and photos and signatures attached to the check, see vardian.io/templates/wire-rope-sling-inspection-checklist.