



TOOLBOX

SAFETY TRAINING

Company _____ Location _____ Date _____

Vol 32 - No 19 LASERS ON THE JOB SITE

Laser usage is increasing on construction sites. Levels for use on suspended ceilings are very common on almost all job sites. Safety precautions need to be taken by not only the individuals using the laser but also by construction personnel working in the immediate vicinity of the laser.

Laser radiation of sufficient intensity and exposure time can cause irreversible damage to the skin and eyes of a person. The laser thresholds that are recommended by manufacturers are 10 milliseconds up to 10 seconds of exposure.

Some safety precautions to take are:

1. Make sure signs stating "WARNING, LASERS IN USE" are posted on ALL access points to the work area where lasers are in use.
2. Avoid looking directly at the laser point.
3. Use proper eye protection as suggested/recommended by the laser manufacturer or as per OSHA, whichever offers the higher protection.
4. Use laser only as suggested by the manufacturer recommendations.
5. Restrict the work area where a laser is being used to authorized personnel only.

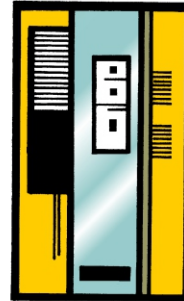
1926.102(b)(2)(I)

Protection against radiant energy

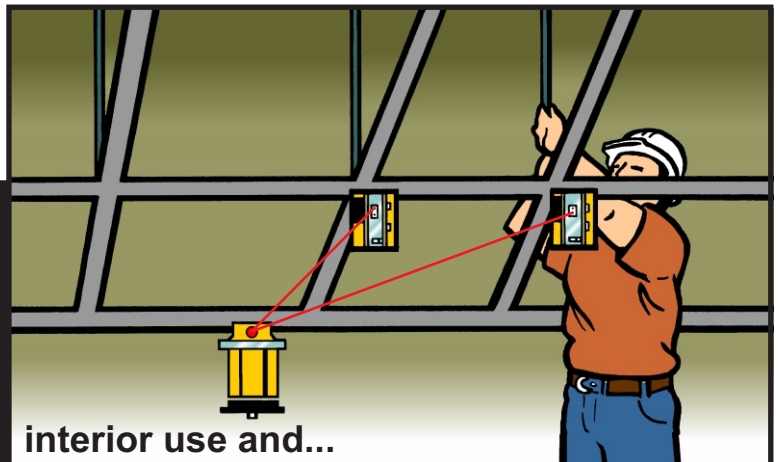
Laser protection - Employees whose occupation or assignment requires exposure to laser beams shall be furnished suitable laser safety goggles which will protect for the specific wavelength of the laser and be of optical density (O.D.) adequate for the energy involved. Table E-3 lists the maximum power or energy density for which adequate protection is afforded by glasses of optical densities from 5 through 8.

Table E-3 - Selecting Laser Safety Glass

Intensity	Attenuation	
CW Maximum power density (watts/cm ²)	Optical density (O.D.)	Attenuation factor
10 ⁻²	5	10 ⁵
10 ⁻¹	6	10 ⁶
1.0	7	10 ⁷
10.0	8	10 ⁸

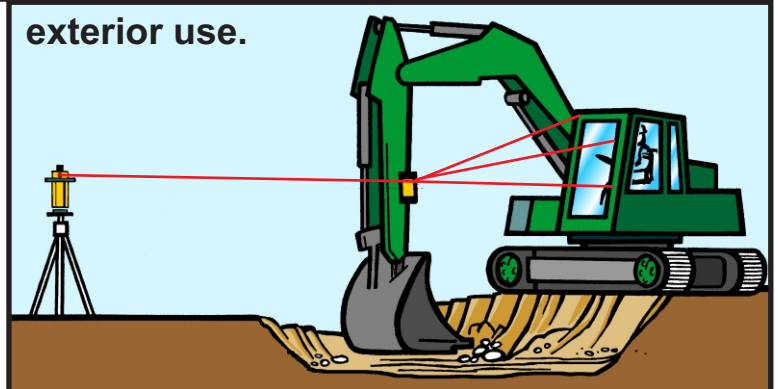


Lasers such as this one are used on a variety of jobsites for both...



interior use and...

exterior use.





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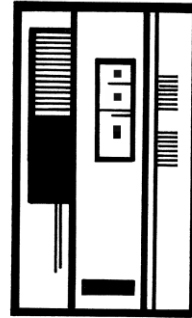
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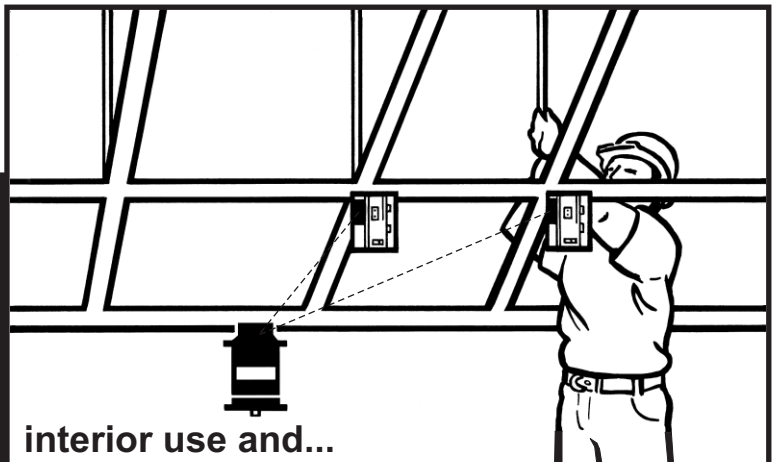
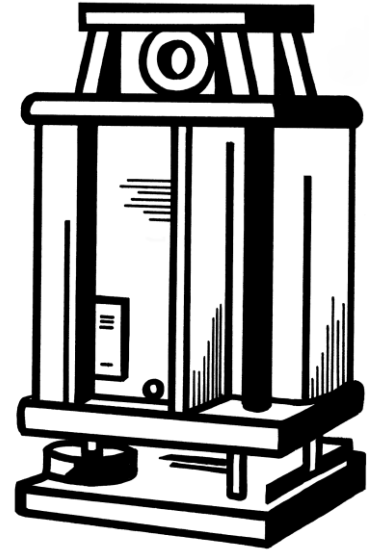
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