

# Unsecured Materials: Flying Object Struck-by Hazards

Unsecured materials that are pushed, kicked, or blown by the wind with enough force can strike workers and cause injuries. For example, a strong wind could pick up a piece of plywood or blow over an extension ladder, and a nearby worker could be struck. A person could also be struck if a worker is throwing materials during cleanup without proper planning and communication.

## Protect workers by:

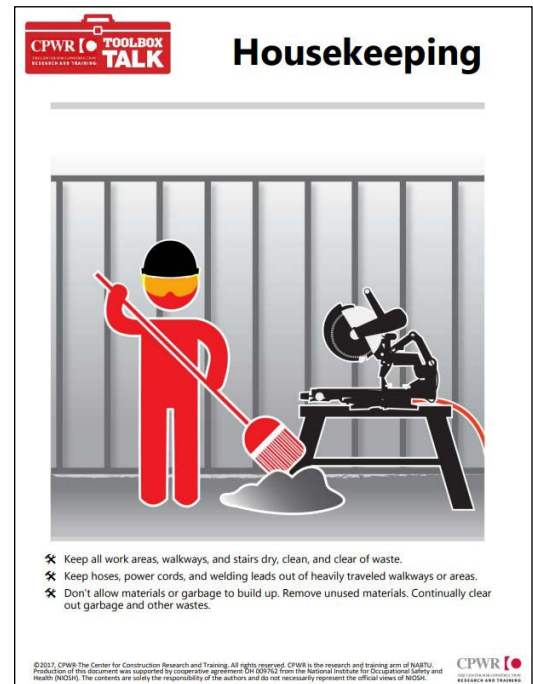
- Stacking and securing materials to prevent sliding, falling, or collapse.
- Keeping work areas clear and tidy.
- Securing materials and equipment against wind gusts.
- Requiring use of personal protective equipment, such as hard hats, safety glasses, and steel-toe footwear.

## Planning Resources

- [Job Hazard Analysis](#)
- [Building Information Modeling \(BIM\) for Safety Planning](#)
- [CPWR's Head Protection Webpage](#)
- [OSHA Competent Person Resources](#)

## Training Resources

- Toolbox Talks:
  - Housekeeping ([English](#), [Spanish](#))
  - Eye Protection ([English](#), [Spanish](#))
  - Head Protection ([English](#), [Spanish](#))
- Hazard Alert Cards:
  - Eye Injuries ([English](#), [Spanish](#))
  - Preventing Head Injuries ([English](#), [Spanish](#))
- Posters/Infographics:
  - Eye Protection (English [PDF](#); Spanish [PDF](#))
  - Head Protection (English [PDF](#) & [JPEG](#))



## Relevant Standards

- OSHA Standard 29 CFR - <https://www.osha.gov/laws-regs/regulations/standardnumber/1926>
  - [1926 Subpart C - General Safety and Health Provisions](#)
    - [1926.20 - General safety and health provisions.](#)
    - [1926.21 - Safety training and education.](#)
    - [1926.22 - Recording and reporting of injuries.](#)
    - [1926.23 - First aid and medical attention.](#)
    - [1926.25 - Housekeeping.](#)
    - [1926.28 - Personal protective equipment.](#)
    - [1926.29 - Acceptable certifications.](#)
  - [1926 Subpart E - Personal Protective and Life Saving Equipment](#)
    - [1926.95 - Criteria for personal protective equipment.](#)
    - [1926.96 - Occupational foot protection.](#)
    - [1926.100 - Head protection.](#)
    - [1926.101 - Hearing protection.](#)
    - [1926.102 - Eye and face protection.](#)

- [1926.107 - Definitions applicable to this subpart.](#)
  - [1926 Subpart G - Signs, Signals, and Barricades](#)
    - [1926.200 - Accident prevention signs and tags.](#)
  - [1926 Subpart H - Materials Handling, Storage, Use, and Disposal](#)
    - [1926.250 - General requirements for storage.](#)
    - [1926.252 - Disposal of waste materials.](#)
  - [1926 Subpart T - Demolition](#)
    - [1926.850 - Preparatory operations.](#)
    - [1926.852 - Chutes.](#)
    - [1926.853 - Removal of materials through floor openings.](#)
    - [1926.857 - Storage.](#)
- American National Standards Institute (ANSI):
  - [ANSI/International Safety Equipment Association \(ISEA\) Z89.1-2014 \(R2019\) – Head Protection](#)
  - [ANSI/International Safety Equipment Association \(ISEA\) Z89.1-2020 – Eye and Face Protection](#)

### Nudges to Improve Planning

- Job Site Posters: *see Training Resources above*
- Text Messages

Target Audience	Texts
Supervisors and Workers	<ul style="list-style-type: none"> <li>• Always secure materials and equipment against wind gusts to prevent being struck by flying objects.</li> </ul>

- Email Messages

#### **Example:**

Dear [     ],

As a supervisor, keeping your workers safe is a top priority. Unsecured materials that are pushed, kicked, or blown by the wind with enough force can strike workers and cause injuries. Workers throwing materials during cleanup without proper planning and communication can also strike someone nearby. Create a plan before work begins using CPWR’s Struck-by Planning Program and communicate it with your workers to prevent injuries caused by flying objects. As part of your plan, you should:

- Stack and secure materials to prevent sliding, falling or collapse.
- Keep work areas clear and tidy.
- Secure materials and equipment against wind gusts.
- Require use of personal protective equipment, such as hard hats, safety glasses, and steel-toe footwear.

Thanks for helping to instill a safety and health culture here at [company name]. Stay safe!

[Name]

- Sticker



CPWR has a simple “Sphere of Safety” hardhat sticker design that can be downloaded and printed. We also have limited supplies available for free, which can be ordered by contacting Grace Barlet at [gbarlet@cpwr.com](mailto:gbarlet@cpwr.com).

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