

## **OSHA standards applicable to Builders Risk**

**Foundations ,walls, columns, beams, trusses are not structurally sound until properly tied in/supported**

**OSHA Reference:**

1926 Subpart M – Fall Protection 1926.501(a)(2)

1926 Subpart Q - Concrete and Masonry Construction

1926 Subpart R – Steel Erection

**Damage to structure, materials and equipment from loads not properly secured, overloaded/improperly set-up cranes, improper rigging techniques.**

**OSHA Reference:**

1926 Subpart CC – Cranes (includes requirements for riggers)

1926 Subpart H – Material handling (rigging equipment)

**Overloading scaffolds and causing damage to building structure**

**OSHA Reference:**

1926 Subpart L - Scaffolding

**Damage to building/structure due to use of telehandlers, pile driving and heavy equipment**

**OSHA Reference:**

1926 Subpart O - Motor Vehicles, Mechanized Equipment, and Marine Operations

**Damage due to fire, temporary heating, electrical installations, flammable storage, Welding operations**

**OSHA Reference:**

1926 Subpart F – Fire Protection and Prevention

1926 Subpart K – Electrical

1926 Subpart J – Welding

**Structural failure due to collapse excavations and trenches**

**OSHA Reference:**

1926 Subpart P – Excavations

**Overall Responsibility of Contractor to train workers, perform inspections and maintain jobsite conditions**

1926.20(b) – Accident prevention programs, inspections

1926.20(f) & 1926.21 – Employee Training

1926.24 – Fire Prevention

1926.25 – Housekeeping



<p>installed/existing/store equipment/material or causing delayed dry in of building areas.</p> <ul style="list-style-type: none"> <li>• Damage and Delay due to theft/vandalism of equipment, copper, structure</li> </ul>	<p>protection</p> <ul style="list-style-type: none"> <li>• Pre-project planning of security based on project location (high crime/remote areas)</li> <li>• Evaluate location for security requirements (fencing, intrusion detection, lighting)</li> <li>• Contact local law enforcement of project location, work hours</li> <li>• Third party security company used</li> <li>• Delivery of materials coordinated with installation</li> <li>• Stored high value materials located in secure areas and kept to minimum</li> <li>• Good relationship with neighboring businesses</li> <li>• Security/Lighting sufficient for project based on location/value of installed materials</li> </ul>
<ul style="list-style-type: none"> <li>• Fire</li> </ul>	<ul style="list-style-type: none"> <li>• Fire extinguishers provided and easily accessible</li> <li>• Fire water standpipe follows construction sequence</li> <li>• Workers Trained on fire prevention methods (storage, electrical overloading, housekeeping, smoking policy) and use of fire extinguishers</li> <li>• Debris removed and placed in proper trash bins located away from project</li> <li>• Fire suppression system conspicuously marked.</li> <li>• Established fueling areas identified – away from structures</li> <li>• Flammable fueling properly bonded/grounded</li> <li>• Tar kettles properly maintained during hot roofing application</li> <li>• Torch down roofing applications controlled</li> <li>• Equipment Inspection and maintenance program established</li> <li>• Temporary heat sources necessary for freezing temps (fire protection, proper installation for temp heat)</li> <li>• Temporary electrical system installed by Qualified Electrician, inspected and maintained</li> <li>• Established flammable/combustible</li> </ul>

<ul style="list-style-type: none"> <li>• Water Damage</li> <li>• Identification/protection of underground and overhead utilities</li> </ul>	<p>storage areas</p> <ul style="list-style-type: none"> <li>• Coordination with project work for road impairment permitting for road closures due to work location</li> <li>• Quality Assurance program for inspection of plumbing/pipe connections</li> <li>• Water lines located behind walls prior to cutting/drilling</li> <li>• Water shut off valves identified and marked (if system remains charged)</li> <li>• Toe boards used near shafts/openings to minimize water on lower levels</li> <li>• Start-up process in place prior to pressurizing lines- pressurized lines marked/tagged</li> <li>• End of shift walk thru of project to ensure no leaks or running water present</li> <li>• Lockout/tagout of water valve on unfinished pressurized systems (off work hours) keys provided to security in event of emergency</li> <li>• Phone the one-call system to identify underground utilities.</li> <li>• Use as-build drawings to identify potential underground utilities on industrial property/contact plant engineering to determine additional underground utilities</li> <li>• Contact power company in advance to de-energize, move overhead lines or install protective sleeves/covers</li> <li>• Coordinate with plant engineering to de-energize, move, blanket overhead utilities</li> </ul>
<b>Foundations</b>	
<ul style="list-style-type: none"> <li>• Contaminated Soil (project delay)</li> <li>• Underground and overhead utilities</li> <li>• Collapse of nearby structures</li> <li>• Underground utilities damage causing plant systems disruption (Electrical, gas)</li> </ul>	<ul style="list-style-type: none"> <li>• Proper soil analysis and protection from cave-in near existing structures (shorting or underpinning)</li> <li>• Coordinate with facility engineering to determine locationn of underground utilities</li> <li>• Protective barriers/stop logs/spotters when equipment is working near excavations</li> <li>• Proper soil analysis and slope for excavations</li> <li>• Site assessment, investigate prior site use evaluate site location (marsh or wet areas etc.)</li> </ul>
<b>Concrete/masonry walls</b>	
<ul style="list-style-type: none"> <li>• Manual material handling equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Inspection of all concrete shoring and</li> </ul>

<ul style="list-style-type: none"> <li>• Material handling equipment</li> <li>• Concrete handling system hazards (rigging failure on overhead loads, hose coupling failure, boom truck hitting overhead power lines, pinch points on conveyor systems)</li> <li>• Scaffolds with weather protection in winter blowing down</li> <li>• Walls blowing down</li> <li>• Extremely heavy/unbalanced loads on scaffolds due to mud trays and block.</li> <li>• Overturning of telehandlers</li> </ul>	<p>forming systems prior to use and on a daily basis by a competent person</p> <ul style="list-style-type: none"> <li>• Use weather reports to indicate wind loads and increase supports for green walls</li> <li>• Brace walls for overnight expectations</li> <li>• Engineered scaffold tie-ins when using weather protection (poly)</li> <li>• Planned material handling to limit overloading scaffolds with mud and block</li> <li>• Train telehandler operators on hazards of soft ground and operating with forks extended</li> <li>• Proper procedures when parking equipment (brakes set/wheels chocked)</li> </ul>
<b>Steel/wood/concrete structures</b>	
<ul style="list-style-type: none"> <li>• Beams/Trusses damaged during lifting operations</li> <li>• Unsecured beams/trusses/joists that are susceptible to wind</li> </ul>	<ul style="list-style-type: none"> <li>• Crane set-up/use</li> <li>• Rigging Inspected and rated for load</li> <li>• Trained/qualified workers for task</li> <li>• Proper temporary bracing of structural components directed by Competent Person</li> </ul>
<b>Damage to Mechanical/Electrical Equipment</b>	
<ul style="list-style-type: none"> <li>• Damage during transport/delivery</li> <li>• Damage while on site</li> <li>• Damage during installation</li> <li>• Damage during start-up testing</li> </ul>	<ul style="list-style-type: none"> <li>• Reputable transport company</li> <li>• On-site storage time kept to minimum</li> <li>• Storage location protected from hail/rain/snow</li> <li>• Rigging plan in place</li> <li>• Proper rigging selected to prevent overload and damage to paint/housing</li> <li>• Evaluation of start-up testing safeguards, personnel and methods</li> </ul>
Employee Training	<ul style="list-style-type: none"> <li>• New hire include training on fire prevention, inspection, storage, security requirements</li> <li>• Competent Person provided training specific to operations they supervise</li> <li>• Worker training on equipment use, inspection, operation based on manufacturers instructions</li> </ul>
<b>This list is not designed nor does it not contain every situation, process or exposure that could result in a Builders Risk Claim</b>	

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