

**GI Part 52. Sawmills
Compared With
29 C.F.R. 1910.265 Sawmills**

As of May 2015

Summary: The significant differences between GI Part 52. Sawmills and 29 C.F.R. 1910.265 Sawmills are in:

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| <ul style="list-style-type: none"> • Employer responsibilities • Employees general duties • Illumination • Power control • Hydraulic safety • Chain, chain slings, and chain fittings • Cable, wire rope, and wire rope slings • Housekeeping • Pressure feed rolls • Chippers and hogs • Sawmill carriages | <ul style="list-style-type: none"> • Head band saws and band resaws • Circular head saw • Double circular head saw • Self-feed circular gang saws • Trimmer saw • Bolt, cant, or slat saw • Woodworking machines • Stackers and unstackers • Nailers • Pallet notchers |
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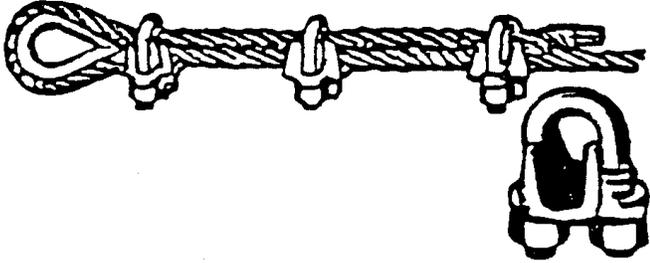
The comparisons show only those provisions where MIOSHA rules are different than OSHA or where MIOSHA rules are not included in 29 C.F.R.

****means there is a comparable OSHA rule to this paragraph

MIOSHA	OSHA
<p>R 408.15211 Employer responsibilities. Rule 5211. (1) An employer shall do all of the following:</p> <p>(a) Provide training to each employee as to hazards and safe operation of the assigned job.</p> <p>(b) Maintain machinery, equipment, buildings, ramps, platforms, and aisles in a hazard-free condition. When a hazardous condition develops concerning floors, docks, and passageways that cannot be immediately repaired, the area shall be guarded until adequate repairs are made.</p> <p>(c) Provide head protection which shall be used by all employees outside the office, including those in the dry storage area, as prescribed in General Industry Safety Standard Part 33 "Personal Protective Equipment," as referenced in R 408.15209.</p> <p>(d) Provide, and an employee shall use, eye protection as prescribed in General Industry Safety Standard Part 33 "Personal Protective Equipment," as referenced in R 408.15209. If impact resistance is not required, the employee may wear a steel wire or nylon mesh screen, or equivalent, mounted on a protective helmet. The screen shall be of sufficient strength to protect the face to below the nose from chips or sawdust from the saw.</p> <p>(e) Provide an approved life jacket to an employee working over water, at no expense to the employee.</p>	<p>No comparable OSHA provision</p>

MIOSHA	OSHA
<p>R 408.15211(1)(f) Install all gas piping and appliances as prescribed in ANSI standard Z21.30 "Installation of Gas Appliances and Gas Piping," 1964 edition, as referenced in R 408.15209.</p> <p>(2)****</p>	<p>No comparable OSHA provision</p> <p>Equivalent</p>
<p>R 408.15212 Employees general duties. Rule 5212. An employee shall do all of the following:</p> <ul style="list-style-type: none"> (a) Abide by the safety procedures pertaining to the job as prescribed by the employer and comply with these rules. (b) Examine the work area and equipment that is going to be used before work begins and report a dangerous or unsafe condition in the work area. (c) Refrain from reckless practice or action which could result in an accident or injury. (d) Not operate a machine without prior training, instruction, and authorization. 	<p>No comparable OSHA provision</p>
<p>R 408.15221 Illumination. Rule 5221.(1) Illumination shall be provided at the operator's work station to maintain a minimum of 30 foot candle intensity, except at a debarker, head saw or trim saw. A minimum of 30 foot candle intensity shall be provided at the point of operation of a debarker, head saw or trim saw.</p> <p>(2) to (7)****</p>	<p>1910.266 Sawmills (c) Building facilities, and isolated equipment (9) Lighting (i) Adequacy. Illumination shall be provided and designed to supply adequate general and local lighting to rooms, buildings, and work areas during the time of use.</p> <p>Equivalent</p>
<p>R 408.15223 Power control. Rule 5223. (1) A machine shall be equipped with an emergency stop device, red in color, which can be activated from the operator's work station.</p> <p>(2) A machine attended by more than 1 operator shall be equipped with a control for each operator exposed to a point of operation hazard. These controls shall be interlocked to prevent operation until each operator activates his control.</p> <p>(3) A machine control shall be designed and installed to prevent unintentional activation by contact with objects or part of the body.</p> <p>(4) A written lockout procedure shall be established by an employer and used by an employee. A power source of any equipment to be repaired, serviced or set up shall be locked out by each employee while doing work. Any residual pressure shall be relieved prior to and during work.</p> <p>(5) Upon power failures, provisions shall be made to prevent machines from automatically restarting upon restoration of power.</p>	<p>No comparable OSHA provision</p>

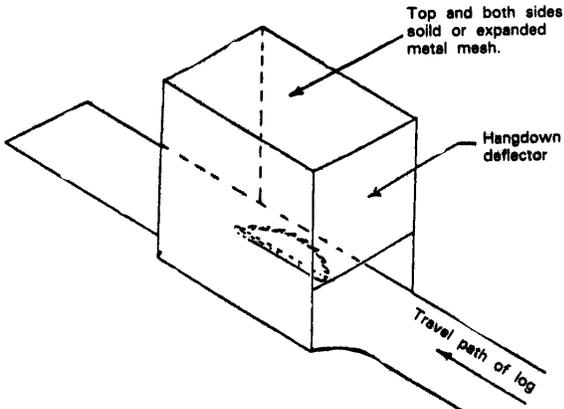
MIOSHA	OSHA																												
<p>R 408.15224 Hydraulic safety. Rule 5224. (1) A hydraulic system shall have a designed safety factor of not less than 4. (2) A hydraulic, air or steam line shall be bled before opening it for maintenance work. (3) Equipment supported by hydraulic, air or steam pressure shall be blocked or otherwise secured before maintenance work is begun.</p>	<p>1910.265 Sawmills (c) Building facilities, and isolated equipment (9) lighting (13) Hydraulic systems. Means shall be provided to block, chain, or otherwise secure equipment normally supported by hydraulic pressure so as to provide for safe maintenance.</p>																												
<p>R 408.15225 Chain, chain slings, and chain fittings. Rule 5225. (1) A chain and its component parts, other than alloy steel chain having a minimum tensile strength of 125,000 pounds per square inch, shall have a safety factor of not less than 5. Alloy chain shall not be used in excess of the working load in straight tension for its size as prescribed in table 1. (2) Chain with bent, twisted, or elongated links or hook which has been open more than 15% at the throat from the original set or twisted more than 10% from the plane of the unbent hook shall not be used until the defective part is replaced. (3) A bolt or nail shall not be used to shorten or join links together. (4) Installation, inspection, maintenance, repair, and testing of chains shall be done only by an employee qualified to do such work. (5)****</p>	<p>No comparable OSHA provision</p> <p>Equivalent</p>																												
<p>R 408.15225 (7) Table 1 reads as follows:</p> <table border="1"> <thead> <tr> <th colspan="2">Table 1 Working load – Single chain</th> </tr> <tr> <th>Nominal Size, Chain Bar, In.</th> <th>Work Load, Lb. Max.</th> </tr> </thead> <tbody> <tr><td>1/4</td><td>3,250</td></tr> <tr><td>3/8</td><td>6,600</td></tr> <tr><td>1/2</td><td>11,250</td></tr> <tr><td>5/8</td><td>16,500</td></tr> <tr><td>3/4</td><td>23,000</td></tr> <tr><td>7/8</td><td>28,500</td></tr> <tr><td>1</td><td>38,750</td></tr> <tr><td>1 1/8</td><td>44,500</td></tr> <tr><td>1 1/4</td><td>57,500</td></tr> <tr><td>1 3/8</td><td>67,000</td></tr> <tr><td>1 1/2</td><td>80,000</td></tr> <tr><td>1 3/4</td><td>100,000</td></tr> </tbody> </table>	Table 1 Working load – Single chain		Nominal Size, Chain Bar, In.	Work Load, Lb. Max.	1/4	3,250	3/8	6,600	1/2	11,250	5/8	16,500	3/4	23,000	7/8	28,500	1	38,750	1 1/8	44,500	1 1/4	57,500	1 3/8	67,000	1 1/2	80,000	1 3/4	100,000	<p>No comparable OSHA provision</p>
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MIOSHA	OSHA
<p>R 408.15226 Cable, wire rope, and wire rope slings.</p> <p>Rule 5226. (1) Cable, wire rope, and wire rope slings shall have a designed safety factor of not less than 5.</p> <p>(2) Wire rope and cable in load-carrying or hoist service and their fittings shall be visually inspected when installed and once each day thereafter when in use.</p> <p>(3) Wire rope shall not be used if, within a segment of 8 diameters in length, the total number of visible broken wires exceeds 10% of the total number of wires or if the rope shows other signs of excessive wear, corrosion, or defects.</p> <p>(4)****</p> <p>(5) When U-type cable clips are applied, they shall comply with figure 1.</p> <p>(6) Cable clips shall be spaced approximately 6 rope diameters apart.</p> <p>(7) Wire rope and cable shall be protected at sharp or tight bends by use of corner irons or blocks.</p> <p>(8) A safety hook shall be used where there is a hazard created if the tension on the hook could be relieved by fouling or catching.</p> <p>(9) to (17)****</p> <p>(18) Multiple-part lines shall not be twisted around each other. If there is a slack rope condition, the rope shall be properly seated on the drum and in the sheaves.</p> <p>(19) Knots shall not be allowed in a wire rope.</p>	<p>1910.265 Sawmills</p> <p>(c) Building facilities, and isolated equipment.</p> <p>(24) Ropes, cables, slings, and chains</p> <p>(v) Ropes or cables.</p> <p>(a) Wire rope or cable shall be inspected when installed and once each week thereafter, when in use.</p> <p>Equivalent</p> <p>(24)(ii) Hooks. No open hook shall be used in rigging to lift any load where there is hazard from relieving the tension on the hook from the load or hook catching or fouling</p> <p>Equivalent</p> <p>No comparable OSHA provisions</p>
<p>R 408.15226 (20) Figure 1 reads as follows:</p> 	<p>No comparable OSHA provisions</p>

MIOSHA				OSHA
NUMBER AND SPACING OF CLIPS FOR ROPES OF VARIOUS SIZES				No comparable OSHA provisions
Diameter of rope (in.)	Number of clips	Center-to-center space between clips (in.)	Length of rope turned back exclusive of eye (in.)	
1/4	2	1 1/2	3	
5/16	2	1 7/8	4	
3/8	2	2 1/4	5	
7/16	2	2 5/8	6	
1/2	3	3	9	
5/8	3	3 3/4	12	
3/4	4	4 1/2	18	
7/8	4	5 1/4	21	
1	4	6	24	
1 1/8	5	6 3/4	34	
1 1/4	5	7 1/2	38	
1 3/8	6	8 1/4	50	
1 1/2	6	9	54	
1 5/8	6	9 3/4	60	
1 3/4	7	10 1/2	74	
1 7/8	8	11 1/4	90	
2	8	12	96	
2 1/8	8	13	104	
2 1/4	8	14	112	
<p>R 408.15227 Housekeeping. Rule 5227. (1) Chips, sawdust and other debris shall be removed from working areas to prevent an accumulation which would constitute a hazard. (2) Pipes, beams, and other overhead objects in the operating area of a sawmill shall be cleaned off a minimum of once a month to remove dust accumulations.</p>				No comparable OSHA provision
<p>R 408.15228 Pressure feed rolls. Rule 5228. Pressure feed rolls shall be guarded to prevent the hands of an operator when at his regular work station from coming in contact with the in-running rolls. A guard shall be made of a minimum of 14 gauge sheet metal or material of equivalent or greater strength.</p>				<p>1910.265 Sawmills (e) Log breakdown and related machinery and facilities (5) Edgers (ii) Guards. (b) All edgers shall be equipped with pressure feed rolls. (c) Pressure feed rolls on edgers shall be guarded against accidental contact.</p>

MIOSHA	OSHA
<p>R 408.15231 Chippers and hogs. Rule 5231. (1) A whole log chipper or a hog shall have the feed system arranged so that an employee does not stand in direct line with the chipper hopper. (2) A guard shall be installed over the chipping or hog throat to prevent slab and wood particles from being discharged at an operator. (3) To prevent an employee from falling onto a chipper or hog belt-type, feed-in conveyor, the belt-type conveyor shall be guarded for the entire length of the conveyor by an enclosure or standard barrier as prescribed in General Industry Safety Standard Part 2 "Floor and Wall Openings, Stairways, and Skylights," as referenced in R 408.15209. (4) A safety belt and lanyard shall be used by an employee when feeding at or near the hopper of a drop feed chipper or drop feed hog. The lanyard shall be adjusted to prevent an employee from falling into the chipper or hog. (5) A board chipper or hog shall have the feed spout enclosed not less than 40 inches from the blade to the opening or the operator shall wear a safety belt and lanyard. The lanyard shall be short enough to prevent any portion of the operator's body from touching the blade. (6) Where jam-ups cannot be cleared with a stick, the in-feed equipment shall be stopped and locked out and the employee clearing the jam shall be provided with, and use, a safety belt and lanyard, as prescribed in General Industry Safety Standard Part 33 "Personal Protective Equipment," as referenced in R 408.15209, which is adjusted to prevent contact with the chipper blade before additional cleaning is done. (7) A chipper on a head rig or edger shall be enclosed to protect the employee.</p>	<p>1910.265(c)(21) Chippers - 1910.265(c)(21)(i) Whole-log chippers. The feed system to the chipper shall be arranged so the operator does not stand in direct line with the chipper spout (hopper). The chipper spout shall be enclosed to a height of not less than 36 inches from the floor or the operator's platform. A safety belt and lifeline shall be worn by workmen when working at or near the spout unless the spout is guarded. The lifeline shall be short enough to prevent workers from falling into the chipper.</p> <p>Hogs. 1910.265(c)(21)(ii)(a) Hog mills shall be so designed and arranged that from no position on the rim of the chute shall the distance to the cutter knives be less than 40 inches.</p> <p>1910.265(c)(21)(ii)(b) Hog feed chutes shall be provided with suitable and approved baffles, which shall minimize material from being thrown from the mill.</p> <p>1910.265(c)(21)(ii)(c) Employees feeding hog mills shall be provided with safety belts and lines unless guarded.</p>
<p>R 408.15234 Sawmill carriages. Rule 5234.(1)****</p> <p>(2) Safeguards shall be installed to insure that if the electrical power fails, the pressure of the dog on the log will not release a log until the headsaw has stopped.</p> <p>(3) to (4)****</p> <p>(5) When a sawyer leaves the operating station, the carriage controls shall be placed and held in the off position by a mechanical device. (6) When a powered carriage is returned to the end of the runway for maintenance work, a device shall be provided to prevent movement of the carriage. (7) A means of egress shall be provided from the operator's station.</p>	<p>Equivalent</p> <p>No comparable OSHA provisions</p> <p>Equivalent</p> <p>No comparable OSHA provision</p>

MIOSHA	OSHA
<p>R 408.15241 Head band saws and band resaws. Rule 5241. (1) to (2)****</p> <p>(3) Materials used to enclose the wheels shall be not less than 14-gauge sheet metal or material of equivalent or greater strength.</p> <p>(4)****</p> <p>(5) An operator work station for a head band saw shall have an enclosure on not less than 3 sides, not including the back, to protect the operator from flying debris. Above this enclosure there shall be a piece of 3/8-inch Plexiglas or material of equivalent or greater strength and of such height between the sawyer and the saw blade to protect the sawyer from flying objects.</p>	<p>Equivalent</p> <p>No comparable OSHA provision</p> <p>Equivalent</p> <p>No comparable OSHA provision</p>
<p>R 408.15242 Circular head saw. Rule 5242. (1)****</p> <p>(2) Horizontal distance from a circular headsaw blade to the nearest vertical husk part shall be at least 1 inch greater than the distance from the blade collar to the tip of the blade.</p> <p>(3)****</p> <p>(4) A splitter shall be constructed of tempered steel or its equivalent and shall not be thinner than the saw kerf.</p> <p>(5) The work station of an off-bearer shall be constructed to prevent the off-bearer from working closer than 42 inches from the saw blade.</p> <p>(6) The work station of the operator of a circular saw shall be enclosed as prescribed in R 408.15241(5).</p> <p>(7) If a circular headsaw has setworks that are manually operated or a carriage that is manually loaded, both of the following provisions shall be complied with:</p> <p>(a) A barricade or other positive stop of such strength to hold back a log shall be erected between the log deck and the sawyer.</p> <p>(b) The guard required at the sawyer station shall be a shield which is 36 inches high and which is between the operator and the saw with an extension of 3/8-inch Plexiglas or material of equivalent strength of such height and width to protect the sawyer from flying objects.</p>	<p>Equivalent</p> <p>No comparable OSHA provision</p> <p>Equivalent</p> <p>No comparable OSHA provision</p>
<p>R 408.15243 Double circular head saw. Rule 5243. A double circular head saw shall comply with R 408.15242 and in addition, have a movable guard or hood made of a minimum of 14 gauge sheet metal or material of equivalent or greater strength over the upper blade.</p>	<p>No comparable OSHA provision</p>

MIOSHA	OSHA
<p>R 408.15244 Self-feed circular gang saws. Rule 5244. (1) A bank of circular gang saws and their feed rolls, if so equipped, shall be enclosed by a cover over the top, front, and open ends, except where guarded by location. A drive mechanism to feed rolls shall be enclosed. The cover shall be made of a minimum of 14 gauge sheet metal, or material of equivalent or greater strength, and the bottom of the cover shall come within 3/8 inch of the plane formed by the bottom of the working surfaces of the feed rolls.</p> <p>(2) to (3)****</p>	<p>No comparable OSHA provision</p> <p>Equivalent</p>
<p>R 408.15245 Trimmer saw. Rule 5245. (1) A trimmer saw shall be guarded by a barrier made of 11 gauge metal, or material of equivalent or greater strength, to contain the trimmings flying from point of operation and to prevent an employee from coming in contact with any saw blade on the trimmer.</p> <p>(2) to (4)****</p>	<p>No comparable OSHA provision</p> <p>Equivalent</p>
<p>R 408.15247 Bolt, cant, or slat saw. Rule 5247. (1) A bolt, cant, or slat saw shall have the point of operation guarded or the work stations of the tailer and operation shall be constructed to prevent the tailer or operator from working closer than 42 inches from the saw blade.</p> <p>(2) A feeding mechanism, such as powered live rolls or carriage, shall be used to feed materials through a bolt, cant, or slat saw.</p> <p>(3) Behind a bolt, cant, or slat saw blade, the saw shall be equipped with a spreader wheel or a splitter.</p> <p>(4) The blade of a bolt, cant, or slat saw shall be guarded to cover the top and both sides. Hangdown deflectors of 3/8-inch Plexiglas or equivalent protection shall be installed on the in-feed end and extend to the top of the saw blade. See figure 2.</p> <p>(5) Figure 2 reads as follows:</p> <p style="text-align: center;">Figure 2 Blade Guard (Bolt, cant, or slat saw)</p> 	<p>No comparable OSHA provision</p>

MIOSHA	OSHA
<p>R 408.15251 Woodworking machines. Rule 5251. An employer using machines and equipment more commonly found in a woodworking shop, including but not limited to, jointers, planers, mitre saws and swing cutoff saws, shall follow the General Industry Safety Standard Part 27 "Woodworking Machinery," as referenced in R 408.15209.</p>	<p>No comparable OSHA provision</p>
<p>R 408.15252 Kilns. Rule 5252. (1) to (2)**** (3) A steam line less than 7 feet from the floor and in or by a walkway shall be covered with an insulating material or protected by a barrier. (4) to (7)***</p>	<p>Equivalent 1910.265 Sawmills (f) Dry kilns and facilities (5) Steam mains. All high-pressure steam mains located in r adjacent to an operating pit shall be covered with heat-insulating materials. Equivalent</p>
<p>R 408.15254 Stackers and unstackers. Rule 5254. (1) to (2)**** (3) Guarding of a stacker hoistway openings and lower landing shall be pursuant to General Industry Safety Standard Part 2 "Floor and Wall Openings, Stairways and Skylights," as referenced in R 408.15209. (4) Where an operator has no clear view of the discharge path from a stacker, or in case of a discharge path of an automatic stacker, a barrier guard shall be provided to prevent an employee from entering the discharge path. In either case, a warning device shall be installed to alert an employee of the hazard.</p>	<p>Equivalent No comparable OSHA provision</p>
<p>PALLET EQUIPMENT</p>	
<p>R 408.15261 Nailers. Rule 5261. (1) A hand held, power operated nailer or stapler shall be equipped and maintained with a safety switch at the point of operation as well as a finger control switch. (2) A automatic nailer or stapler shall have the point of operation guarded or enclosed to within 1/4 inch of the material. (3) Where a nailer or stapler has more than 1 operator, each operator shall be supplied with a control which shall be activated concurrently or the machine will not operate. (4) A foot control shall be provided with a cover or guard to prevent accidental activation.</p>	<p>No comparable OSHA provision</p>

MIOSHA	OSHA
<p>R 408.15262 Pallet notchers. Rule 5262. A pallet notcher shall be equipped with a hood designed to contain flying pieces and chips and controls to prevent the hands of the operator from entering the point of operation. A method of feeding shall be provided to prevent kickbacks.</p>	<p>No comparable OSHA provision</p>

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