



## Ohio Administrative Code

### Rule 3745-57-83 Design and operating requirements for drip pads.

Effective: [March 7, 2025](#)

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(A) Drip pads shall:

(1) Be constructed of non-earthen materials, excluding wood and non-structurally supported asphalt;

(2) Be sloped to free-drain treated wood drippage, rain and other waters, or solutions of drippage and water or other wastes to the associated collection system;

(3) Have a curb or berm around the perimeter;

(4)

(a) Have a hydraulic conductivity of less than or equal to  $1 \times 10^{-7}$  centimeters per second, e.g., existing concrete pads shall be sealed, coated, or covered with a surface material with a hydraulic conductivity of less than or equal to  $1 \times 10^{-7}$  centimeters per second such that the entire surface where drippage occurs or may run across is capable of containing such drippage and mixtures of drippage and precipitation, materials, or other wastes while being routed to an associated collection system. This surface material shall be maintained free of cracks and gaps that could adversely affect its hydraulic conductivity, and the material shall be chemically compatible with the preservatives that contact the drip pad. The requirements of this provision apply only to existing drip pads and those drip pads for which the owner or operator elects to comply with paragraph (B) of rule 3745-57-82 of the Administrative Code instead of paragraph (A) of rule 3745-57-82 of the Administrative Code.

(b) The owner or operator shall obtain and keep on file at the facility a written assessment of the drip pad, reviewed and certified by a qualified professional engineer who attests to the results of the evaluation. The assessment shall be reviewed, updated, and recertified annually. The evaluation shall document the extent to which the drip pad meets the design and operating standards of this rule, except for paragraph (B) of this rule.



(5) Be of sufficient structural strength and thickness to prevent failure due to physical contact, climatic conditions, the stress of daily operations, e.g., variable and moving loads such as vehicle traffic, movement of wood, etc..

[Comment: Ohio EPA will generally consider applicable standards established by professional organizations generally recognized by the industry such as the American concrete institute (ACI) or the American society of testing and materials (ASTM) in judging the structural integrity requirement of paragraph (A)(5) of this rule.]

(B) If an owner or operator elects to comply with paragraph (A) of rule 3745-57-82 of the Administrative Code instead of paragraph (B) of rule 3745-57-82 of the Administrative Code, the drip pad shall have:

(1) A synthetic liner installed below the drip pad that is designed, constructed, and installed to prevent leakage from the drip pad into the adjacent subsurface soil or ground water or surface water at any time during the active life (including the closure period) of the drip pad. The liner shall be constructed of materials that will prevent waste from being absorbed into the liner and to prevent releases into the adjacent subsurface soil or ground water or surface water during the active life of the facility. The liner shall be:

(a) Constructed of materials that have appropriate chemical properties and sufficient strength and thickness to prevent failure due to pressure gradients (including static head and external hydrogeologic forces), physical contact with the waste or drip pad leakage to which the materials are exposed, climatic conditions, the stress of installation, and the stress of daily operation (including stresses from vehicular traffic on the drip pad);

(b) Placed upon a foundation or base capable of providing support to the liner and resistance to pressure gradients above and below the liner to prevent failure of the liner due to settlement, compression, or uplift; and

(c) Installed to cover all surrounding earth that could come in contact with the waste or leakage; and

(2) A leakage detection system immediately above the liner that is designed, constructed,



maintained, and operated to detect leakage from the drip pad. The leakage detection system shall be:

(a) Constructed of materials that are:

(i) Chemically resistant to the waste managed in the drip pad and the leakage that might be generated; and

(ii) Of sufficient strength and thickness to prevent collapse under the pressures exerted by overlaying materials and by any equipment used at the drip pad;

(b) Designed and operated to function without clogging through the scheduled closure of the drip pad; and

(c) Designed so that it will detect the failure of the drip pad or the presence of a release of hazardous waste or accumulated liquid at the earliest practicable time.

(3) A leakage collection system immediately above the liner that is designed, constructed, maintained, and operated to collect leakage from the drip pad such that the leakage can be removed from below the drip pad. The date, time, and quantity of any leakage collected in this system and removed shall be documented in the operating log.

(C) Drip pads shall be maintained such that the drip pads remain free of cracks, gaps, corrosion, or other deterioration that could cause hazardous waste to be released from the drip pad.

[Comment: See paragraph (M) of this rule for remedial action required if deterioration or leakage is detected.]

(D) The drip pad and associated collection system shall be designed and operated to convey, drain, and collect liquid resulting from drippage or precipitation in order to prevent run-off.

(E) Unless protected by a structure, as described in paragraph (B) of rule 3745-57-80 of the Administrative Code, the owner or operator shall design, construct, operate, and maintain a run-on control system capable of preventing flow onto the drip pad during peak discharge from at least a



twenty-four-hour, twenty-five-year storm, unless the system has sufficient excess capacity to contain any run-off that might enter the system.

(F) Unless protected by a structure or cover as described in paragraph (B) of rule 3745-57-80 of the Administrative Code, the owner or operator shall design, construct, operate, and maintain a run-off management system to collect and control at least the water volume resulting from a twenty-four-hour, twenty-five-year storm.

(G) The drip pad shall be evaluated to determine that the drip pad meets the requirements of paragraphs (A) to (F) of this rule and the owner or operator shall obtain a statement from a qualified professional engineer certifying that the drip pad design meets the requirements of this rule.

(H) Drillage and accumulated precipitation shall be removed from the associated collection system as necessary to prevent overflow onto the drip pad.

(I) The drip pad surface shall be cleaned thoroughly in a manner and frequency such that accumulated residues of hazardous waste or other materials are removed, with residues being properly managed as hazardous waste, so as to allow weekly inspections of the entire drip pad surface without interference or hindrance from accumulated residues of hazardous waste or other materials on the drip pad. The owner or operator shall document the date and time of each cleaning and the cleaning procedure used in the facility's operating log. The owner or operator shall determine if the residues are hazardous in accordance with rule 3745-52-11 of the Administrative Code and, if so, shall manage the residues under Chapters 3745-50, 3745-51, 3745-52, 3745-53, 3745-54 to 3745-57 and 3745-205, 3745-65 to 3745-69 and 3745-256, 3745-266, 3745-267, and 3745-270 of the Administrative Code.

(J) Drip pads shall be operated and maintained in a manner to minimize tracking of hazardous waste or hazardous waste constituents off the drip pad as a result of activities by personnel or equipment.

(K) After being removed from the treatment vessel, treated wood from pressure and non-pressure processes shall be held on the drip pad until drillage has ceased. The owner or operator shall maintain records sufficient to document that all treated wood is held on the pad following treatment in accordance with this requirement.



(L) Collection and holding units associated with run-on and run-off control systems shall be emptied or otherwise managed as soon as possible after storms to maintain design capacity of the system.

(M) Throughout the active life of the drip pad and as specified in the permit, if the owner or operator detects a condition that may have caused or has caused a release of hazardous waste, the condition shall be repaired within a reasonably prompt period of time following discovery, in accordance with the following procedures:

(1) Upon detection of a condition that may have caused or has caused a release of hazardous waste (e.g., upon detection of leakage in the leak detection system), the owner or operator shall:

(a) Enter a record of the discovery in the facility operating log;

(b) Immediately remove the portion of the drip pad affected by the condition from service;

(c) Determine what steps shall be taken to repair the drip pad and clean up any leakage from below the drip pad, and establish a schedule for accomplishing the repairs; and

(d) Within twenty-four hours after discovery of the condition, notify the director of the condition and, within ten working days, provide written notice to the director with a description of the steps that will be taken to repair the drip pad and clean up any leakage, and the schedule for accomplishing this work.

(2) The director will review the information submitted, make a determination regarding whether the pad shall be removed from service completely or partially until repairs and cleanup are complete, and notify the owner or operator of the determination and the underlying rationale in writing.

(3) Upon completing all repairs and cleanup, the owner or operator shall notify the director in writing and provide a certification signed by an independent, qualified registered professional engineer, that the repairs and cleanup have been completed according to the written plan submitted in accordance with paragraph (M)(1)(d) of this rule.



(N) Should a permit be necessary, the director will specify in the permit all design and operating practices that are necessary to ensure that the requirements of this rule are satisfied.

(O) The owner or operator shall maintain, as part of the facility operating log, documentation of past operating and waste handling practices. This shall include identification of preservative formulations used in the past, a description of drippage management practices, and a description of treated wood storage and handling practices.

[Comment: For dates of non-regulatory government publications, publications of recognized organizations and associations, federal rules, and federal statutory provisions referenced in this rule, see rule 3745-50-11 of the Administrative Code titled "Incorporated by reference."]