



SOLVING THE PUZZLE OF ELECTRIFIED HARDWARE CODES



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ASK YOUR MOST PRESSING QUESTIONS!

Decoded now features a new question-and-answer format. We are selecting some of the most pressing questions that readers have about codes and answering them here. Submit your questions at idighardware.com/decoded-qa and we'll answer as many as we can in future Decoded columns.

HOW DEEP IS YOUR KNOWLEDGE OF ELECTRIFIED HARDWARE CODES? DO THEY PUZZLE YOU?

Recent updates to model codes have made great strides toward clarifying the requirements for electrified hardware. These changes impact the hardware used in special locking arrangements, access control systems and normal locking arrangements.

It's important to stay informed about the latest code requirements, as some updates offer immediate clarifications that can help interpret their intent.

Keeping up-to-date can prevent errors that may lead to project delays, increased costs or compromised safety for building occupants.

Past "Decoded" articles have covered the changes related to electrified hardware. Now it's time to test your knowledge! Complete this crossword puzzle about the codes that apply to electrified hardware. See page 52 for the answers. Good luck! +

ACROSS

- 2 Recent changes to the I-Codes clarify that interior stairway doors that are lockable on the stair side must have fail _____ electrified locks.
- 5 When a sensor release lock is installed, the model codes require a manual release device (auxiliary push button) marked "_____ to exit."
- 9 The model code sections addressing sensor release and door hardware release applications typically apply to doors with _____ -locks.
- 11 When panic hardware is equipped with the electric _____ retraction feature, the latch is retracted when power is applied.
- 12 The fire code published by the International Code Council is the _____, or International Fire Code.
- 13 The building code adopted in the majority of U.S. states is the International Building Code (_____).
- 15 The 2024 I-Codes no longer permit _____ release locks on doors that are required to have panic hardware.
- 17 Beginning with the 2018 I-Codes, _____ egress locks are permitted on classroom doors serving a calculated occupant load of less than 50 people.
- 21 When a switch in the panic hardware or sensor bar releases an electromagnetic lock, the code requirements are found in the section addressing _____ hardware release.
- 22 When a stairway fire door is required to allow re-entry back into the building, an electric _____ should not be used.
- 23 When a delayed egress lock is installed on an inswinging door, the model codes require signage stating, "_____ until alarm sounds. Door can be opened in 15 seconds."
- 24 A delayed egress lock may have a 30-second delay (instead of the typical 15-second delay) if approved by the _____.

DOWN

- 1 In a health care unit where patients require containment for safety or security, _____ egress locks are allowed by the current model codes.
- 3 The 2024 I-Codes now include a section allowing fail safe locks to be used on _____ lobby doors, if certain criteria are met.
- 4 The _____ Codes, Government, and Industry Affairs Committee is very active in the development of the codes and standards related to door openings.
- 6 Where special locking arrangements are required to be listed to UL 294, the 2024 model codes now allow a _____ 1034 listing as an alternative.
- 7 Beginning with the 2021 edition, the IBC requires automatic operators on accessible _____ entrances serving buildings of certain use groups and occupant loads.
- 8 Three examples of _____ locking arrangements is delayed egress locks, controlled egress locks and sensor release locks.
- 9 In the 2024 I-Codes, language addressing access control doors with normal locking arrangements is now included in the section for _____ or recorded egress.
- 10 The I-Codes now require lockable interior stairway doors to automatically unlock on the stair side under _____ different conditions.

- 14 Fail _____ electrified hardware allows access when power is applied, and typically allows free egress.
- 16 When electrified hardware allows free egress it is not considered a special locking arrangement; it is a _____ locking arrangement.
- 18 A change made to the 2018 I-Codes allows delayed egress locks on courtroom doors other than the main _____ if the building is equipped throughout with an automatic sprinkler system.
- 19 The standards for automatic operators that are referenced by the model codes are _____/BHMA A156.10, A156.19 and A156.38.
- 20 When an existing fire door is retrofitted with electrified hardware, the modification must comply with the _____ 80 standard.
- 22 Detailed information about special locking arrangements can be found by visiting iDigHardware.com/_____.

