



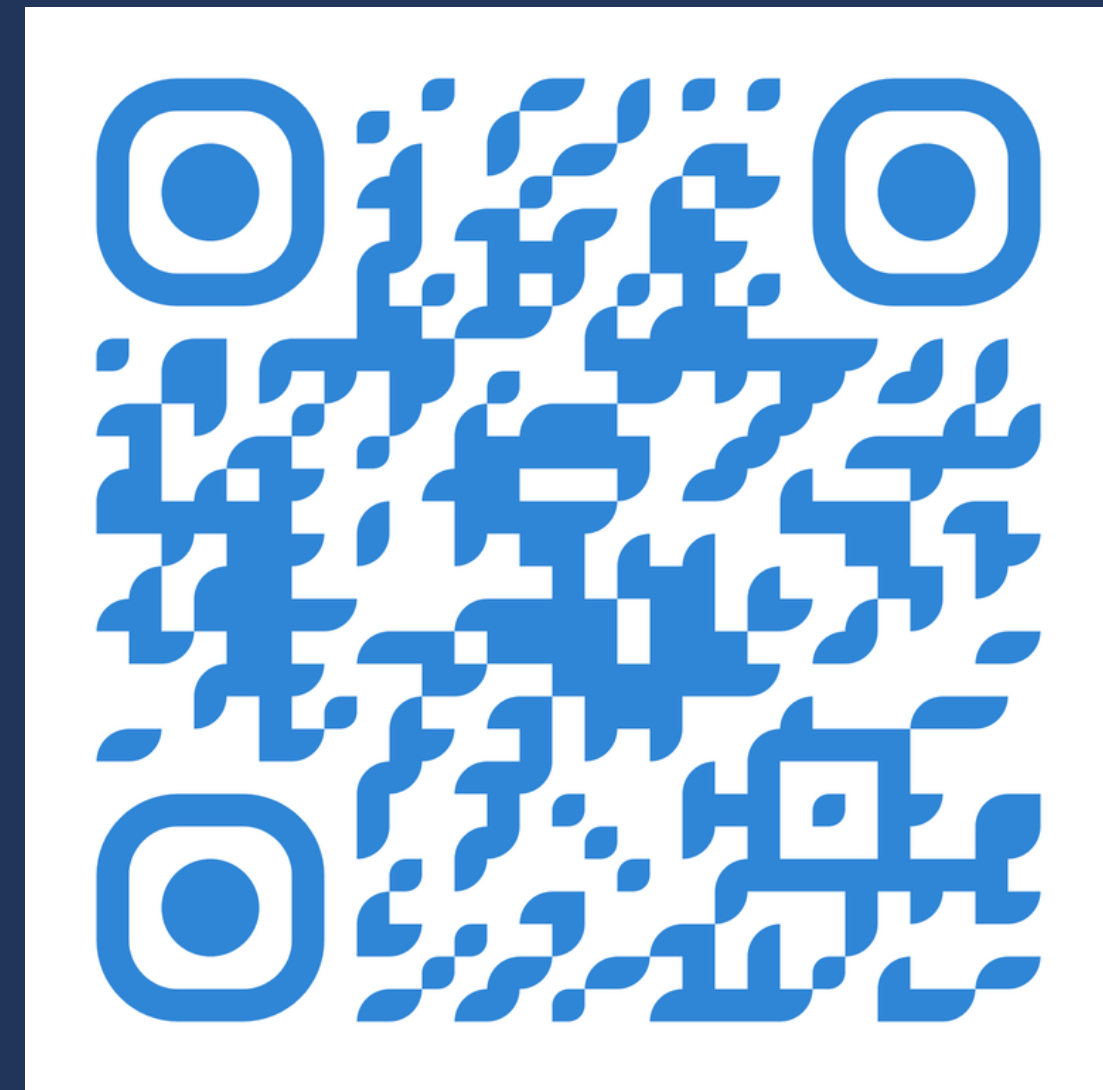
Speedrack

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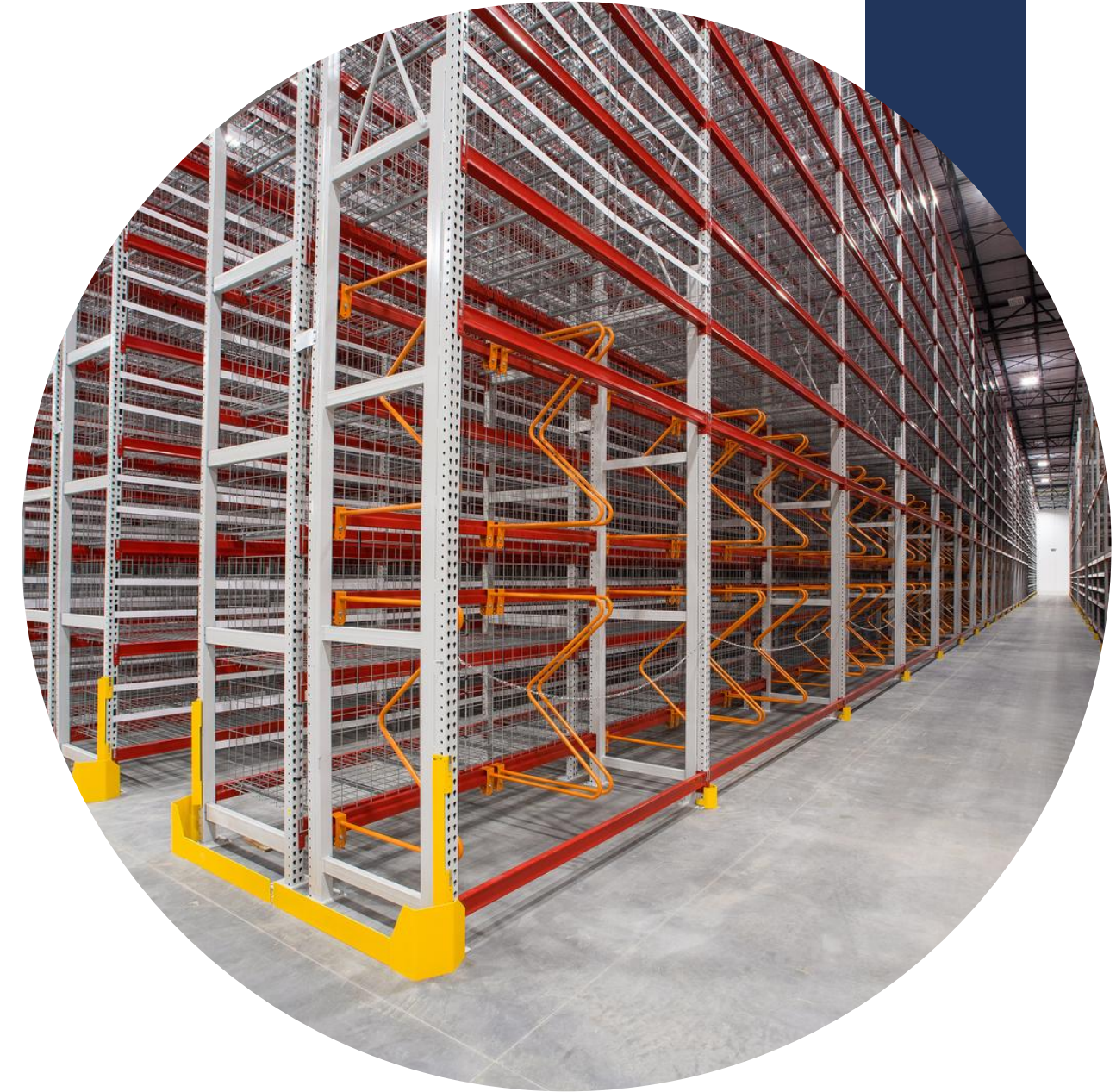
August 11th & 12th, 2026

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Engineering *RMI Code Changes*

Learn about the latest Building Code Changes, what to expect for impacted costs, and how to best prepare for these changes as you're working on projects.



Introduction



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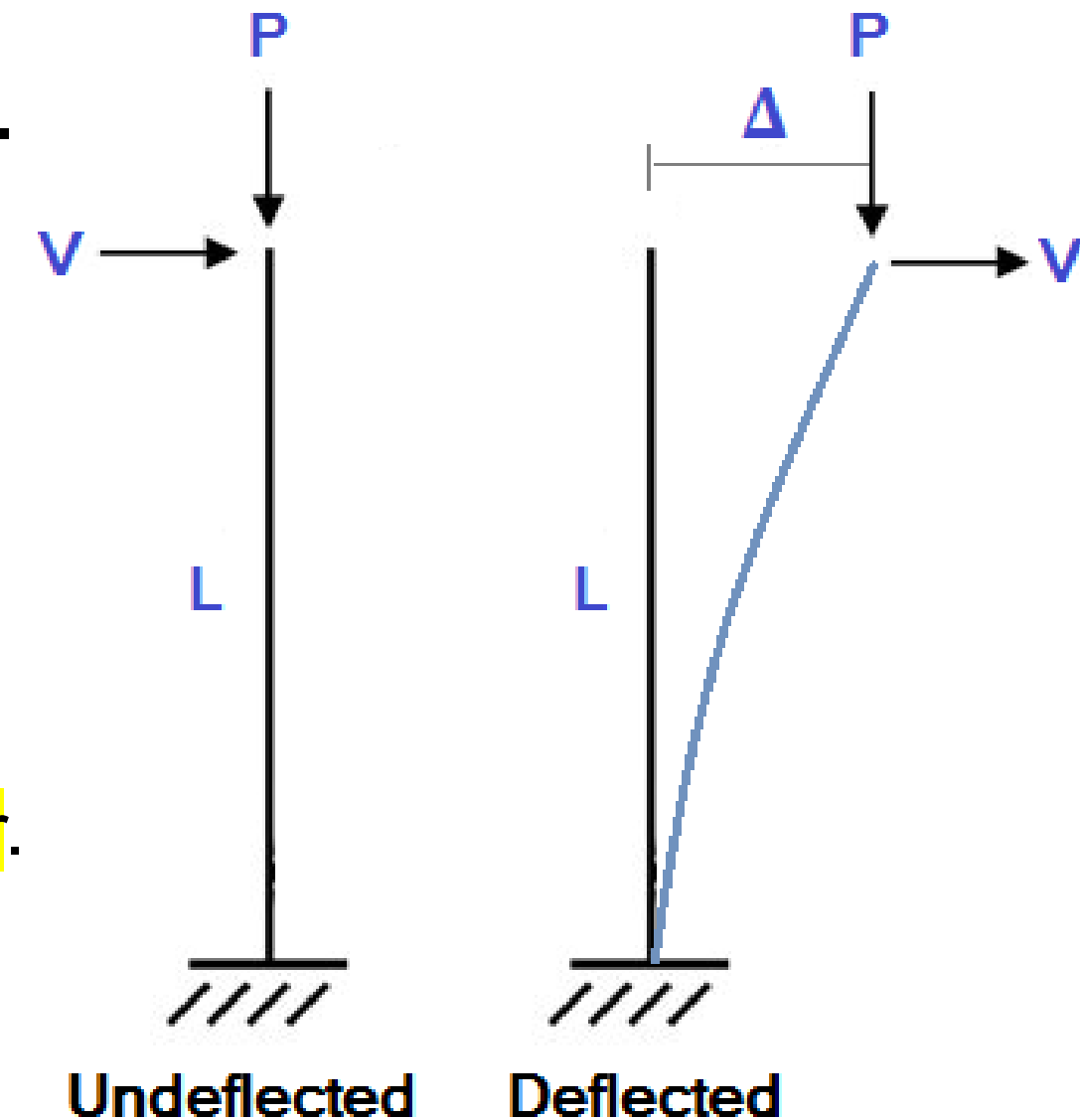
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Building Code Changes

- **2015 IBC, 2018 IBC, and 2021 IBC all reference ANSI/RMI MH16.1:2012.**
 - Remains the prevailing standard in most areas of the U.S.
- **2024 IBC references ANSI/RMI MH16.1:2021**
 - This year we have seen rapidly expanding adoption of the 2024 IBC.
- Adoption of the 2024 IBC by the Authority Having Jurisdiction (AHJ) will require the 'new' RMI design, which incorporates 2nd order analysis.
- Most frequent changes you will see in the 'new' designs will be larger base plates and larger beam endplates, and **overall costs may be 10-15% higher.**
- Quoting to the new standard may make you uncompetitive if the AHJ is working on 2021 IBC (or older).
- It will be a challenge over the next several years as Municipalities and States will be adopting this (or not) on their own schedules.
- We have not seen a significant change in rack design requirements since the adoption of the 1997 RMI standard, so we need to work together and adapt.



Building Code Changes

- **Speedrack takes direction from our Distributors on which Code Edition is required for the project, and this is being added to our quote sheets if you have not encountered it already.**
- There are a few ways to look this up, but bottom line is that we cannot say with certainty which version of the IBC standard the authority having jurisdiction (AHJ) is working on without verifying with them directly via phone & email.
- **This creates a barrier as the customer would generally not want Speedrack contacting the AHJ directly inquiring about permitting when:**
 - It is not typically in our scope to obtain.
 - The final location has not been divulged, as often projects are quoted based on the nearest large city.
 - It may not be permitted at the city level, as we do sometimes encounter county or other quirks.
 - The project may not be occurring until a later date, which also opens the possibility that by the time this project is permitted the AHJ may adopt a newer version of the standard.
 - The customer is not ready to announce a change in operations of the building or a new building launch.

Building Code Changes

- **You have the option on any project to opt for the latest RMI design:**

DESIGN STANDARD AND REQUIREMENTS

Is it acceptable to design storage rack systems to comply with the requirements of the current edition of the standard when it has not been referenced by the edition of IBC in effect for my project?

Yes, the Rack Manufacturers Institute (RMI) recommends the use of the current edition of the RMI Standard.

ANSI MH16.1-2023 incorporates revisions to ANSI MH16.1-2021, which included extensive revisions to the design methods for industrial steel storage rack systems. These revisions, and the additional seismic updates and changes to the testing provisions made in the 2023 edition, significantly alter storage rack system design requirements, replacing those that have been in effect since the standard was first published by RMI in 1997.

- Up-side: Protects against possibility of the new Code Edition being adopted prior to permit submittal.
 - Up-side: Reduces the chances of de-rating being required later if modifications are needed to the rack configuration.
 - Down-side: Will be a more costly design in most cases.
 - Down-side: You may not be able to achieve the desired load rating & configuration, especially in higher seismic areas.
- Designs to the new RMI standard are more iterative and time-consuming, so you may be seeing longer quote turnaround times as a result.
 - We will no longer be able to accept add-ons for P.E. stamps after orders have been entered, more details to follow.

Building Code Changes

- We have supplied OneRack with the necessary test data for the RMI MH16.1 – 2021 standard.
- Primary change you will see is the addition of the stability checks:

BUILDING CODE ⓘ

International Building Code 2024

RMI CODE ⓘ

RMI MH16.1 - 21

Stability		
Level	B2	
12	1.4	●
60	3.0	●
108	4.3	●
156	2.6	●
204	1.7	●

Static

Stability ...

Seismic

Generate Prelim

Stability		
Level	B2	
12	1.4	●
60	2.4	●
108	2.9	●
156	2.0	●
204	1.5	●

Static

Stability ...

Seismic

Generate Prelim

- Since around 2020, the mapped seismic values have increased in general. Default soil values also have larger penalties now. That means that the geotechnical reports and site-specific ground motion hazard analyses can be more beneficial now than they were even 5 years ago.
- Often by upgrading to 4-pin beam connectors and specifying an average load you can obtain rack designs that are comparable to the 2012 standard for selective or pushback.

Code Changes – Takeaways

- Most frequent changes you will see in the 'new' designs will be larger base plates and larger beam endplates, and overall costs may be 10-15% higher.
- It will be a challenge over the next several years as Municipalities and States will be adopting this (or not) on their own schedules.
- **Speedrack takes direction from our Distributors on which Code Edition is required for the project, and this is being added to our quote sheets if you have not encountered it already.**
- We will no longer be able to accept add-ons for P.E. stamps after orders have been entered, more details to follow.
- We will work together to adapt to these changes.



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Thank You!

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