



FLOORCHOICE™
Floor Performance Rating System



[Download your free copy of RedSpec™ here.](#)

Specify RedBuilt™ products for your next project using RedSpec™ single-member sizing software.

Floors have feelings too.

RedBuilt's Floor Performance Rating system helps you understand them.



A commercial building's floor has characteristics and qualities that go beyond code-prescribed strength and deflection limits. They have "feelings" as well – those subjective qualities that determine whether or not occupants will be satisfied with them.

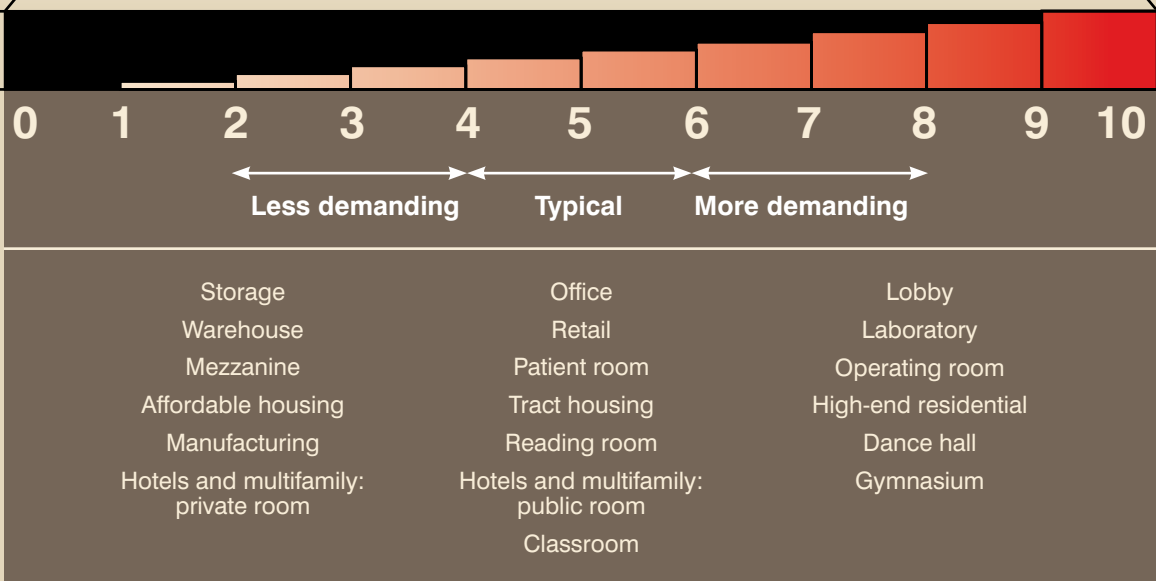
It's the emotional side of the floor. FloorChoice™ helps put logic to that emotion. And does it while the project is still on the drawing board.

FloorChoice™ is RedBuilt's proprietary floor performance rating system that allows you to evaluate the floor while still in the design phase. FloorChoice™ provides a performance rating from 0 to 10, allowing you to determine if the floor's system – and the products specified in the system – meet the owner's expectations.

FLOORCHOICE™ Floor Performance Rating System

FloorChoice™ provides an easy-to-understand numerical rating system that can only be found in the RedSpec™ product sizing software.

Floor Performance Expectations





Contributing factors that affect floor performance and a FloorChoice™ rating:

- Joist series
- Joist span
- Joist spacing
- Joist depth
- Sheathing thickness
- Sheathing attachment
- Floor topping
- Ceiling type
- Support rigidity
- Joist continuity
- Mid-span blocking

The FloorChoice™ Floor Performance Rating System: Key questions and answers.

Q1: Why pay attention to floor vibration?

All floors vibrate. The level of vibration that is perceived is a matter of subjectivity. Lower frequency vibrations are more noticeable, and are oftentimes less acceptable than higher frequency vibrations. It's important to consider how product and system design affects perceived vibrations – if the floor's vibration is noticeable, your client may not be satisfied. The FloorChoice™ rating can help guide you to the right solution.

Q2: Aren't there already building code limits in place?

The existing code-prescribed deflection limits represent the minimum acceptable tolerance to be code-compliant. In other words, code limits are the bottom of the tolerance spectrum.

At RedBuilt™ however, we've found that too often, even when a floor meets existing code limits, it still underperforms. The floor continues to vibrate – at a noticeable level – and that vibration proves to be unacceptable to its occupants.

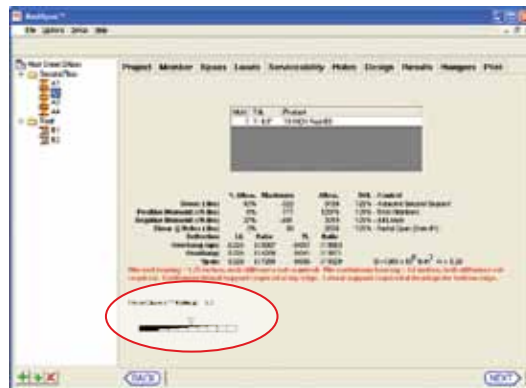
The end result? Dissatisfied customers and clients, expensive reworks or retrofits, and the potential for lost jobs in the future.

The FloorChoice™ rating system helps to augment existing building codes, and increase the occupants' satisfaction with the performance of the floor.

Q3: What do the FloorChoice™ ratings mean?

The FloorChoice™ ratings are a guide, and are meant to give you an easy-to-understand analysis of how a floor will perform or "feel." How you use the rating is up to you, and depends on a number of factors such as the building's intended use and performance expectations.

For a majority of structures and applications, a FloorChoice™ rating of 4.5 – 5.5 would be considered good. Similarly, lower ratings may be good for industrial applications, while a higher rating may be necessary when minimizing floor vibration is critical, such as in medical and professional buildings.



The FloorChoice™ Rating System by RedBuilt™. A powerful tool in the RedSpec™ product sizing software.