



No Glue System

Dimensions	6" x 48"	9" x 48"	18" x 18"	12" x 24"	36" x 36"
Pieces / Box	9	9	12	5	1
Sqft / Box	24	24	27	24	9

Thickness: 4mm, 5mm, + optional 1.5 EVA Backing Available Only On Planks
Wear Layer (mil): 8, 12, 22, 30

** Please note that sqft/box can vary **

Glue Down System

Dimensions	6" x 36"	8" x 36"	12" x 36"	36" x 36"	6" x 48"
	7" x 48"	8" x 48"	9" x 48"	12" x 48"	12" x 24"
	12" x 36"	12" x 48"	18" x 18"	24" x 24"	

Pieces / Box: Varies By Size
Sqft / Box: Range between 32 and 48 sqft.

Thickness: 2mm, 2.5mm, 3mm
Wear Layer (mil): 8, 12, 20, 30

** Please note that sqft/box can vary **

Click System

Dimensions	6" x 48"	7" x 48"	9" x 48"	12" x 36"	12" x 48"
Pieces / Box	9	9	8	6	5
Sqft / Box	18	21	24	24	20

Thickness: 3.5mm, 4mm, 5mm
Wear Layer (mil): 6, 12, 22, 30

** Please note that sqft/box can vary **

ACOUSTICS REVIEW

There is a pronounced trend away from soft surface to hard surface flooring. This is being driven by a variety of reasons, but the most prominent are improved aesthetics and maintenance. Consumers desire the cleaner look and low maintenance of hard surface products. The only concern customers have is in relation to sound. Will the hard surface be “too loud.” There are two primary tests that are used to measure the acoustical qualities of flooring, STC and IIC.

STC

Sound Transmission Class

In simple terms, this measures the airborne sound you experience while standing in a space. The sound can come from any direction, either around you or from above, but generally it is passing through a structure and how much that structure dampens the sound.

IIC

Impact Insulation Class

In short, this measures the noise from floor to floor in a structure. If you are standing in a space the noise from impacts to the floor above you is what is measured.

Generally speaking, commercial spaces tend to focus more on STC and residential on IIC. The floor assembly (also commonly referred to as substrate), can have a material impact on the test results. It will typically affect the IIC more than the STC. Also, since commercial construction is more likely to have a concrete floor assembly the IIC or floor to floor noise tends to be less of an issue. Residential construction will most likely have some type of web truss assembly which provides less natural sound absorption than does a concrete slab. This could be compensated for by adding insulation, but due to the financial models that builders for multi-family projects, this is rarely done.

Both tests measure sound across a variety of frequencies from low to high. The result is compared to a curve plotting these values and then a composite number is determined.

We can deep dive into the abyss of paralysis of over analysis when examining these tests, but that will not help us achieve what the customer is ultimately trying to determine. They want to know how “loud” the floor will be.

There are building code requirements for vertical construction of multi-family structures that typically require a 50 or greater IIC rating. Commercial construction does not have the same level of uniformity at this point in that regard. For the sake of evaluating products we have found that an IIC rating of 50 or more and an STC rating of 60 or more will give consumers a relatively “quiet” floor that will meet their acoustic requirements.



LUXURY VINYL FLOORING

In combination with our manufacturer, a variety of field and lab tests have been performed on several different construction projects within our product line to aid customers who do need verifiable test data. However, we also strongly suggest to our customers, to either large scale projects or ongoing use of a product, that our customers do a test area and evaluate the acoustics on site themselves. They will be able to determine if their requirements are met after they have moved around in the test space. There is a tremendous amount of inconsistency in both the actual testing of floors and misrepresentation of the results. Trust, but verify is the best guidance we can offer.

Our manufacturer has been on the forefront of developing integrated acoustical layers into our GLUE-FREE products. These layers do significantly enhance acoustical results. However our 4 MM and 5 MM products secure a greater than 50 IIC and greater than 60 STC standalone without the added layer, with most floor assemblies. As a result, users should provide adequate acoustical properties for most applications.