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## How to Determine Pallet Dimensioner ROI

For years, LTL carriers have relied on load density to determine freight classification and shipping charges. Density is calculated by dividing the weight of a pallet by the volume in cubic feet.

Measuring a pallet with a tape measure may sound easy, but it can be difficult to accurately measure bulges, protrusions and irregular shapes of real-world freight. It often leads to errors that result in incorrect density and freight misclassification. When carriers use scales and automatic dimensioning systems to audit shipments and determine whether the correct freight class was selected, it can lead to costly adjustments and lost revenue if the weight or dimensions were not accurately declared by the shipper.

### The Cost of Reclassification


Most carriers audit between 40% and 90% of the freight they receive. This means that if you're currently shipping 25 pallets each day, your carrier could be auditing anywhere from 10 to 22 pallets to verify freight classification. If the carrier finds weight or dimension errors they may choose to audit all of your freight.


On average, 35% of audited freight is found to have been misclassified due to inaccurate weight or dimensional measurements. This means that if 10 of your pallets were audited, approximately four would be flagged and reclassified at your carrier's facility, possibly leading to revised charges.

**HEADQUARTERS**


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Daily Calculations

**\$125** Average fee 

**x4** Daily reclassified pallets 

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**\$500** Fees per day 

Yearly Calculations

**\$500** Daily fee 

**x5** Days per work week

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**\$2,500** Fees per week 

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**\$130,000** Fees each year

With this average shipping volume, you could achieve ROI on a pallet dimensioner in just a few months. By implementing pallet dimensioning systems similar to what your carriers use for audits, you can ensure you're capturing Legal for Trade measurements and selecting the correct freight class every time.

By choosing a dimensioning system that includes high-resolution cameras, you will have images of freight as it leaves your facility, documenting its condition and verifying that it was properly packaged and wrapped. This will allow you to hold your carriers accountable for any damage to your freight. Using Legal for Trade systems will often lead to carriers noting that your freight doesn't need to be audited. This boosts efficiency for carriers and can result in lower shipping rates for you.

### Dimensioning Solutions

Rice Lake Weighing Systems offers several Legal for Trade pallet dimensioning and weighing solutions to meet the needs of shipping departments of all sizes. iDimension® solutions are Legal for Trade and include systems that combine scales and dimensioners in one system, systems that can be easily installed above existing scales, conveyors or stretch wrappers, and dimensioners designed specifically for extra-long freight.

Rice Lake also manufactures a variety of floor scales and forklift scales that can be paired with pallet dimensioners to capture weight and dimensions in one simple step. Rice Lake's dimensioning experts are also available to discuss your application and help you determine the best system for your facility.



LTL	LTL XL	PWD	Flex Suspended	Flex Free-standing
				

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