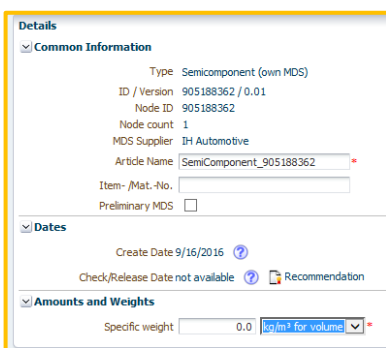
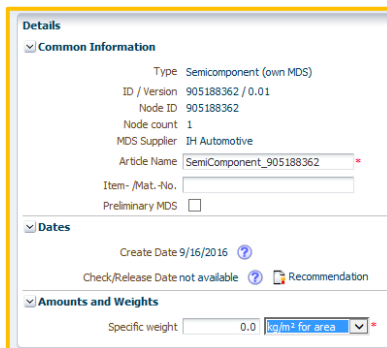
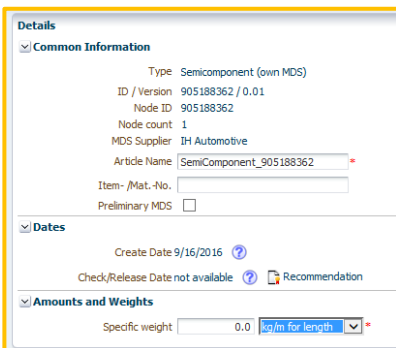
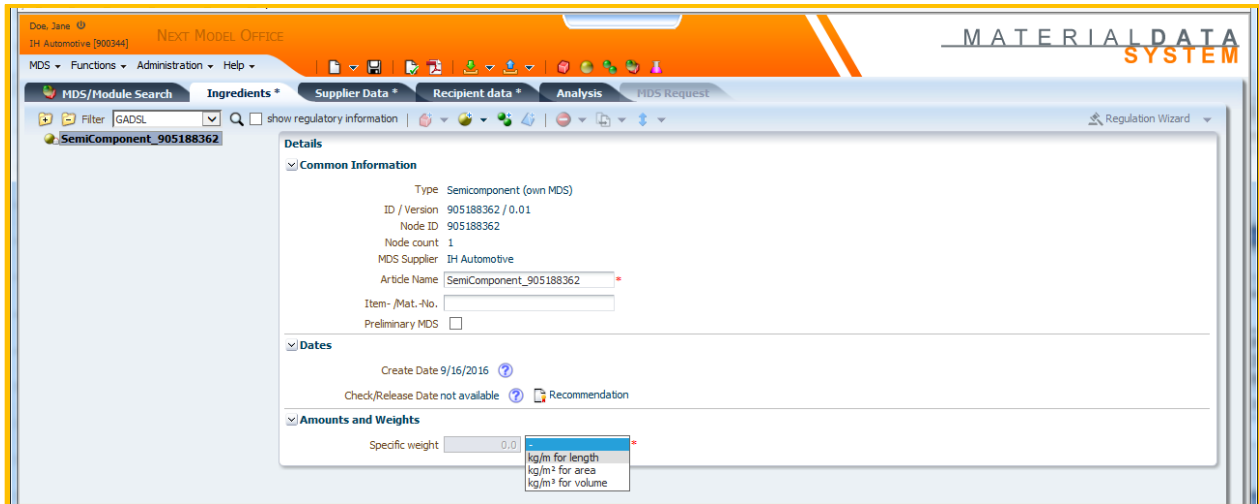


# WHAT IS SPECIFIC WEIGHT AND HOW SHOULD THE INFORMATION BE ENTERED?

In Recommendation 001, you are now required to enter the specific weight of the semi-component. This is the **specific weight** in scientific terms used for further calculations and not the weight of a semi-component. Semi-components do not have a weight until they are further processed. This value is so you or your customer can easily calculate the weight of the semi-component when added to the component.

Rule 4.3.1.B	In semi-components created since release of IMDS 7.0, the usage weight type (kg/m, kg/m <sup>2</sup> or kg/m <sup>3</sup> ) of the semi-component must be entered.
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For those working in countries that do not use the metric system, this will require you to perform some mathematical calculations.

Usage type	Converting from/to	Examples – <b>NOT REPRESENTATIVE OF ACTUAL WEIGHTS – ILLUSTRATIVE ONLY</b>
Length	Ounces/foot to kg/m	<p>A coated wire that weighs 3 ounces per foot.</p> <p>Data you'll need: 1 ounce = 0.02835 kg, 1 foot = 0.3048</p> $\frac{3 \text{ ounces}}{\text{foot}} \times \frac{0.02835 \text{ kg}}{1 \text{ ounce}} \times \frac{1 \text{ foot}}{0.3048 \text{ m}} = \frac{3 \times 0.02835 \text{ kg}}{0.3048 \text{ m}}$ $= 0.08505 \text{ kg/m}$
	Ounces/yard to kg/m	<p>An adhesive tape that weighs 6 ounces per yard</p> <p>Data you'll need: 1 ounce = 0.02835 kg, 1 yard = 0.9144 meter</p> $\frac{6 \text{ ounces}}{\text{yard}} \times \frac{0.02835 \text{ kg}}{1 \text{ ounce}} \times \frac{1 \text{ yard}}{0.9144 \text{ m}} = \frac{6 \times 0.02835 \text{ kg}}{0.9144 \text{ m}}$ $= 0.1860 \text{ kg/m}$
Area	Ounces/foot <sup>2</sup> to kg/m <sup>2</sup>	<p>A bolt of cloth that weighs 12 ounces per foot<sup>2</sup></p> <p>Data you'll need: 1 ounce = 0.02835 kg, 1 foot<sup>2</sup> = 0.09290304 m<sup>2</sup></p> $\frac{12 \text{ ounces}}{\text{foot}^2} \times \frac{0.02835 \text{ kg}}{1 \text{ ounce}} \times \frac{1 \text{ foot}^2}{0.09290304 \text{ m}^2}$ $= \frac{12 \times 0.02835 \text{ kg}}{0.09290304 \text{ m}^2} = 3.6618 \text{ kg/m}^2$
	Pounds/yard <sup>2</sup> to kg/m <sup>2</sup>	<p>A coated steel weighs 3 pounds per yard<sup>2</sup></p> <p>Data you'll need: 1 pound = 0.45359237 kg, 1 yard<sup>2</sup> = 0.83612736 m<sup>2</sup></p> $\frac{3 \text{ pounds}}{\text{yard}^2} \times \frac{0.45359237 \text{ kg}}{1 \text{ pound}} \times \frac{1 \text{ yard}^2}{0.83612736 \text{ m}^2}$ $= \frac{3 \times 0.45359237 \text{ kg}}{0.83612736 \text{ m}^2} = 1.6274 \text{ kg/m}^2$
Volume	Ounces/foot <sup>3</sup> to kg/m <sup>3</sup>	<p>An adhesive weighs 5 ounces per foot<sup>3</sup></p> <p>Data you'll need: 1 ounce = 0.02835 kg, 1 foot<sup>3</sup> = 0.028316 m<sup>3</sup></p> $5 \text{ ounces} \times 0.02835 \text{ kg} = 0.14175 \text{ kg}$ $1 \text{ foot}^3 \times 0.028316 \text{ m}^3 = 0.028316 \text{ m}^3$ $\frac{0.14175 \text{ kg}}{0.028316 \text{ m}^3} = 5.006 \text{ kg/m}^3$
	Pounds/yard <sup>3</sup> to kg/m <sup>3</sup>	<p>Cured paint that weighs 7 pounds per yard<sup>3</sup></p> <p>Data you'll need: 1 pound = 0.45359237 kg, 1 yard<sup>3</sup> = 0.764554 m<sup>3</sup></p> $7 \text{ pounds} \times 0.45359237 \text{ kg} = 3.17514659 \text{ kg}$ $1 \text{ yard}^3 \times 0.764554 \text{ m}^3 = 0.764554 \text{ m}^3$ $\frac{3.17514659 \text{ kg}}{0.764554 \text{ m}^3} = 4.1529 \text{ kg/m}^3$