Interest Inclusive Price DFC calculation

- X = Price excluding Interest
- P* = Rate of Interest
- I = Interest Amount
- Y = Price including Interest
 - * Where (for example) the Rate is 8% that rate is per annum and is shown as 0.08
 - * Where (for example) the Rate is 8% for 120 days, the rate of 8% is per annum however because the terms are 120 days the calculation is 8/100 x 120/365 = 0.0263
 - * Where (for example) the Rate is 8% for 90 days, the rate of 8% is per annum however because the terms are 90 days the calculation is 8/100 x 90/365 = 0.019726

Where:

X + I = Y $I = X \times P$ $X + (X \times P) = Y$ X (1 + P) = YX = Y / 1 + P

So that, for example, where the interest inclusive price is \$22,500.00 and the interest rate is 8% for 120 days:

X + I = \$22,500.00 $I = X \times 0.0263$ $(X \times 0.0263) = $22,500.00$ (1 + 0.0263) = \$22,500.00X = \$22,500.00 / 1 + 0.0263X = \$22,500.00 / 1.0263X = \$21,923.41Therefore: \$22,500.00 - \$21,923.41

Interest = \$576.59