

Are Your Company Drawings Standard Compliant?

by Alex Krulikowski

Compare your drawing to the list of items in the chart below and assign each item a score. Then compare the total score to the Scoring Analysis chart. If you score 90-100, congratulations! You have a standard compliant drawing. Send me the drawing and your ratings and I will confirm your scores or provide you with my opinion on items where we differ.

Standard Compliant Drawing Evaluation		
Drawing # _____	Revision _____	Date _____
Item	Possible Score	Drawing Score
Drawing indicates all the dimensioning and tolerancing standards that apply	10	
The drawing fully defines each surface of the part (for size, location, orientation, or form)	10	
No coordinate tolerances are used to locate holes, tabs, or slots	10	
Position tolerances are used to locate all holes (also slots and tabs)	10	
Profile tolerances are used to locate part surfaces	10	
Orientation tolerances are used to orient all angular relationships	10	
Datum(s) are specified	10	
All geometric tolerances are specified in accordance with Y14.5	10	
All general notes, title block tolerances, and notes show clear definition and do not conflict with other tolerances	10	
General tolerances are specified for non-functional (or non-critical) part features with geometric tolerances that are mathematically robust	10	
Total Score	100	

Scoring Levels	
Drawing Complies With Item	Score
Always	10
Almost always	7
Sometimes	5
In a few places	3
Not at all	0

Scoring Analysis	
Total Score	Drawing Status
90-100	Congratulations! You have a standard compliant drawing.
80-89	You have a usable drawing, but it may contain problems communicating part description.
79 or below	Your drawing needs improvement. It does not communicate a precise description of the part.

What quality level are your company's drawings? Receive a free independent expert analysis.

Send me an email me at alexk@etinews.com and attach one of your drawings. I will analyze the drawing and provide a free evaluation with some ideas for improvement.

ETI can also conduct an independent drawing audit. We will provide a comprehensive report that can be used to develop a plan for improvement. Contact me, and I will explain the details and the nominal cost of a drawing quality audit.

Charts from "How Good are Your Company Drawings," by Alex Krulikowski, ETImail, Vol 2, Issue 6

