

Approach Boundary Worksheet Calculator

Compare two documented approach-distance records after unit conversion, while retaining method, voltage basis, qualification, and source information for review.

Generated October 10, 2026

<https://www.elecatrix.com/testing-protection-grounding/approach-boundary-worksheet-calculator/>

Inputs

Input	Value	Unit
Boundary record type	Approach record	
Method and version	recorded-method-v1	
Voltage basis	Line to line	
Nominal voltage	480	V
Reference distance	42	entered unit
Reference unit	in	
Entered distance	48	entered unit
Entered unit	in	
Qualified-person record	Recorded	
Source reference	reference-a	

Results

Result	Value	Unit
Reference distance	42	in
Entered distance	48	in
Distance difference	6	in
Source note	source_recorded	
Record comparison	entered_values_comparable	

Calculation details

Detail	Value	Unit
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Calculation basis	The worksheet converts two recorded distances to inches and subtracts the reference distance from the entered distance.
Review boundary	Record comparison only; this does not output a required boundary, allow entry, or determine qualification or compliance.

Formulas

`d_reference,in = convert(d_reference)`

`d_entered,in = convert(d_entered)`

`Delta d = d_entered,in - d_reference,in`

Comparable iff method, qualification, and source are present

Warnings and limitations

Gated record comparison only; it does not output a required boundary or determine whether entry or work is allowed.