










EN ISO 9972:2015

Important changes for Minneapolis BlowerDoor measurement teams

Requirement	Acceptance measurements for public-law verification or private-law certification	
Implementation	The new standard has replaced the predecessor standard EN 13829	
	EN 13829	EN ISO 9972
 Measuring Accuracy	All BlowerDoor measurement systems meet the requirements	All BlowerDoor measurement systems with digital pressure gauges meet the requirements
 Software	<ul style="list-style-type: none"> • TECTITE Express • TECLOG MultipleFan 	<ul style="list-style-type: none"> • TECTITE Express version 5.1 • TECLOG MultipleFan version 4 • Mobile App TEC AutoTest for Android/iOS
 Building Preparation Methods	<ul style="list-style-type: none"> • Method A (test of building in use) • Method B (test of the building envelope) 	<ul style="list-style-type: none"> • Method 1 (test of building in use) • Method 2 (test of the building envelope) • Method 3 (test of the building for a specific purpose)
 Terminology	<ul style="list-style-type: none"> • Air leakage rate V_{50} • Air permeability q_{50} • Specific leakage rate w_{50} 	<ul style="list-style-type: none"> • Air leakage rate q_{50} • Air permeability q_{E50} • Specific leakage rate q_{F50}
 Calculation of Reference Values	<p>The internal volume V is the volume of air inside the measured building ...</p> <p>The internal volume is calculated by multiplying the net floor area ... with the mean net ceiling height.</p> <p>That means the subtraction of all internal walls, floors, and cavities.</p>	<p>The internal volume V is the volume inside the building ...</p> <p>Overall internal dimensions shall be used to calculate this volume ...</p> <p>No subtraction shall be made for the volume of internal walls, floors, and cavities.</p>
 Weather Conditions	<p>Baseline pressure ≤ 5 Pascal</p> <p>Recommendations for compliance:</p> <ul style="list-style-type: none"> • Temperature difference x building height ≤ 500 mK • Wind force ≤ 3 Beaufort 	<p>Baseline pressure ≤ 5 Pascal</p> <p>Recommendations for compliance:</p> <ul style="list-style-type: none"> • Temperature difference x building height ≤ 250 mK • Wind force ≤ 3 Beaufort
<p>Excel tool for estimation of thermal conditions see BlowerDoor CompetenceCenter ></p>		

 Quality	No explicit requirements	New requirements: Flow exponent n between 0.5 and 1 (slope of the leakage curve) Coefficient of determination $r^2 \geq 0.98$ (Deviation of the measured pressure levels from the leakage curve)
 Multipoint Test	Minimum pressure difference: 10 Pa or five times of the average of the positive or negative pressure difference of the zero-flow before or after the test	Minimum pressure difference: 10 Pa (± 3 Pa) or five times of the total average of the zero-flow pressure difference before the test
 Thermometer	Accuracy of ± 1 K	Accuracy of ± 0.5 K

You can also find further tips and information on BlowerDoor measurement in the [CompetenceCenter >](#) on our website, which is available to all Minneapolis BlowerDoor customers free of charge.

