

### Question 3.29

**Topic:** Use of WAF for Square and Rectangular Stacks

**Question:** Has EPA expanded the use of the WAF to square and rectangular stacks or ducts? Why can't we just use a default value?

**Answer:** EPA allows the use of Conditional Test Method CTM-041 to characterize wall effects for rectangular (and square) stacks or ducts. In addition to providing procedures to measure wall effects, CTM-041 allows the use of a site-specific default WAF. If you wish to use CTM-041, you should follow the instructions presented on our web site:  
<http://www.epa.gov/airmarkets/emissions/rect-wall-ducts.html>.

**References:** Conditional Test Method -- Determination of Volumetric Gas Flow in Rectangular Duct or Stacks Taking Into Account Velocity Decay Near the Stack or Duct Walls (<http://www.epa.gov/ttn/emc/ctm.html>), and 40 CFR Part 60, Appendix A-2, Method 2H

**History:** First published in March 2000, Update #12; revised in 2013 Manual