

Supplemental Instructions

Caulking

APPLICATION

This document is intended to be supplemental to II-FD-1.5, II-FD-3, II-FD-S3, II-FAGM, II-FR(SR), II-FS(SS), II-FS2C, II-FS, II-RC, II-S and II-S(SS) and provide further clarification on the types of caulking that may be used, and where the caulking is both required and/or allowed on a fire, smoke, or fire/smoke damper.

As is the case with any and all factory mounted components of a life-safety damper, caulking is evaluated as part of the certification process. The specific compound used must undergo flame height, accelerated aging, peel force, tensile and elongation tests per UL555S. This is why our installation instructions state that caulking shall be one of the following: Dow Corning RTV732, Silco Sil-Bond RTV 4500, General Electric IS808, or Novagard RTV3000.

These specific compounds must be used when caulking in the airstream (anywhere inside the duct between the two ends of the damper sleeve) - which includes the seam where the damper frame meets the sleeve, around the stop angles and to attach the blade and stop seals. All required caulking of the damper in the airstream is applied at the factory if ordered with factory mounted sleeves. For field mounted sleeves, one of the specific compounds listed above must be used to caulk as follows: Class-I dampers shall be caulked along the perimeter between the sleeve and the damper on both faces (upstream/downstream); for Class-II dampers caulking is only required to be applied along the perimeter between the sleeve and the damper on one side only (upstream/downstream).

These specific compounds listed above are not required when caulking outside of the airstream – which is anywhere that is not between the two ends of the damper sleeve. Outside of the airstream, any caulking may be used so long as it is both approved by the Local Authority Having Jurisdiction (LAHJ) and is classified by UL to have a flame/smoke developed index of 25/50 or less. Caulking is not allowed to be applied in the annular space around the damper (refer to expansion clearance requirements in applicable II document), but is permitted to be applied between the face of the wall and the adjacent leg of the retaining angle and/or applied over the outside of the sleeve and retaining angles.

A list of approved sealants can be found on UL's Online Certification Directory (<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.html>) and searching the "Caulking and Sealants" category by typing in **UL Category Code** "BLIS".

