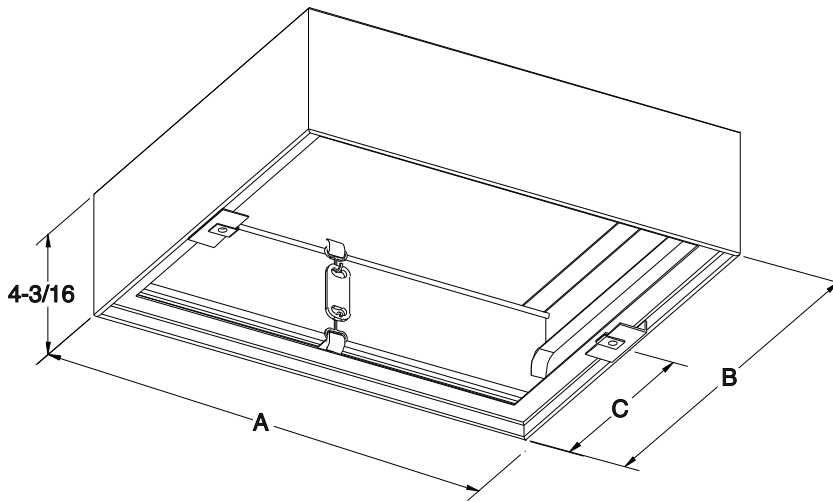




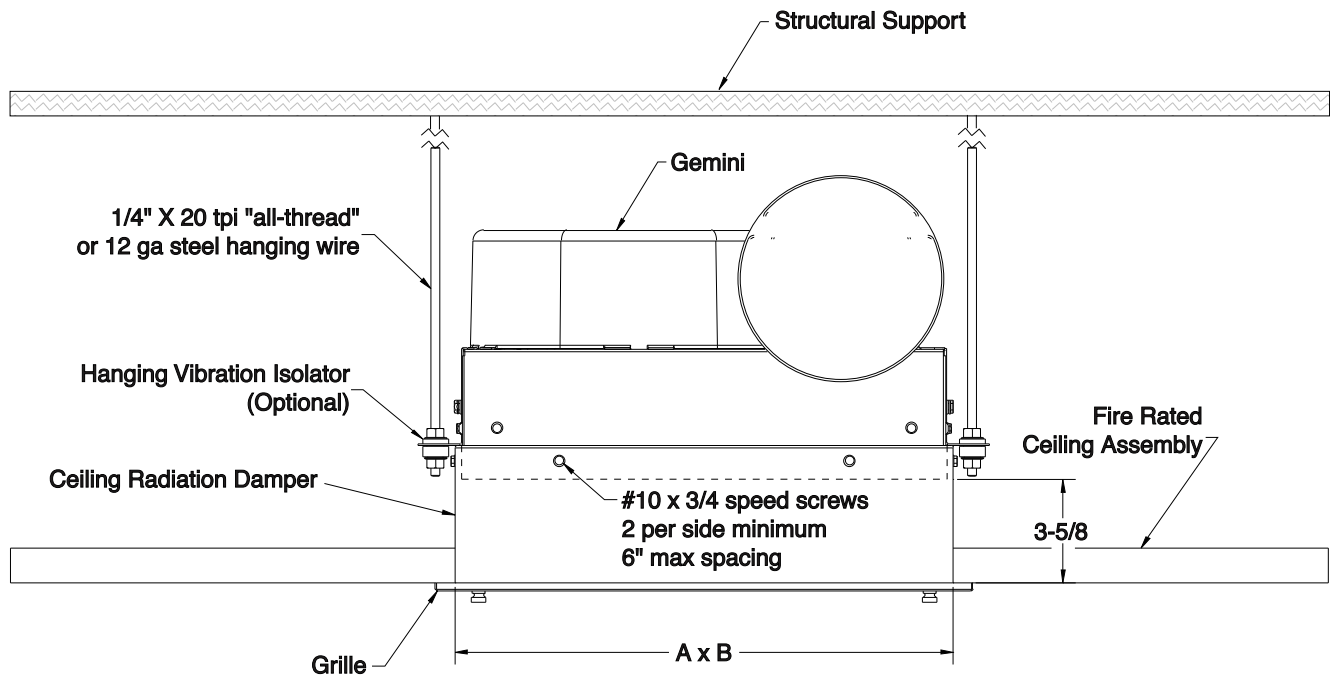
**COOK**

# Curtain Style Ceiling Radiation Damper INSTALLATION INSTRUCTION

Loren Cook Company's curtain style ceiling radiation damper models CRD1, CRD2, CRD3 and CRD4 are classified by UL to function as heat barriers in air handling penetrations through fire resistive membrane ceiling assemblies. These dampers are for use in lieu of hinged door type dampers in fire resistive floor-ceiling or roof-ceiling designs which contain air ducts and specify hinged door type dampers over each duct outlet, as covered in UL's Fire Resistance Directory. The CRD dampers can be installed either with a specific size Loren Cook Company Model Gemini fan as a listed fan and damper assembly or as a stand-alone damper. The following installation instructions show the recommended installation procedures for the CRD's with the Gemini fan. If the CRD is installed as a stand-alone damper, then a 16 ga. steel support channel must be attached to the damper. Use 12 SWG galvanized steel wire or all thread to attach the damper to a supporting structural member. Where it is necessary to cut a main runner or cross tee, each cut end shall be supported by a vertical No. 12 SWG hanger wire. A 1/2" (13mm) clearance shall be maintained between the duct outlet and each cut end at main runner and cross tee. The duct outlet shall be located so that no more than one main runner or cross tee is cut when penetrating the ceiling membrane. Consult with local authorities that have jurisdiction with regard to local codes and guidelines regarding installation.



CRD Model #	Gemini Fan Model	A	B	C
CRD1	120	14-1/2	12-3/8	6-3/16
CRD1	140	14-1/2	12-3/8	6-3/16
CRD1	160	14-1/2	12-3/8	6-3/16
CRD1	180	14-1/2	12-3/8	6-3/16
CRD2	220, 240	12-5/8	10-1/8	5-1/16
CRD3	320, 340	12-5/8	11-1/8	5-9/16
CRD4	420	17-5/8	12-1/4	6-1/8
CRD4	520	17-5/8	12-1/4	6-1/8
CRD4	620	17-5/8	12-1/4	6-1/8
CRD4	640	17-5/8	12-1/4	6-1/8
CRD4	720	17-5/8	12-1/4	6-1/8
CRD4	740	17-5/8	12-1/4	6-1/8



Meets NFPA 90A requirements.  
 Meets BOCA, SBCCA, UBC requirements.  
 The City of New York 460-88-5A  
 California State Fire Marshall 3225-0935:102

See details on  
UL Classification Marking  
on enclosed product.