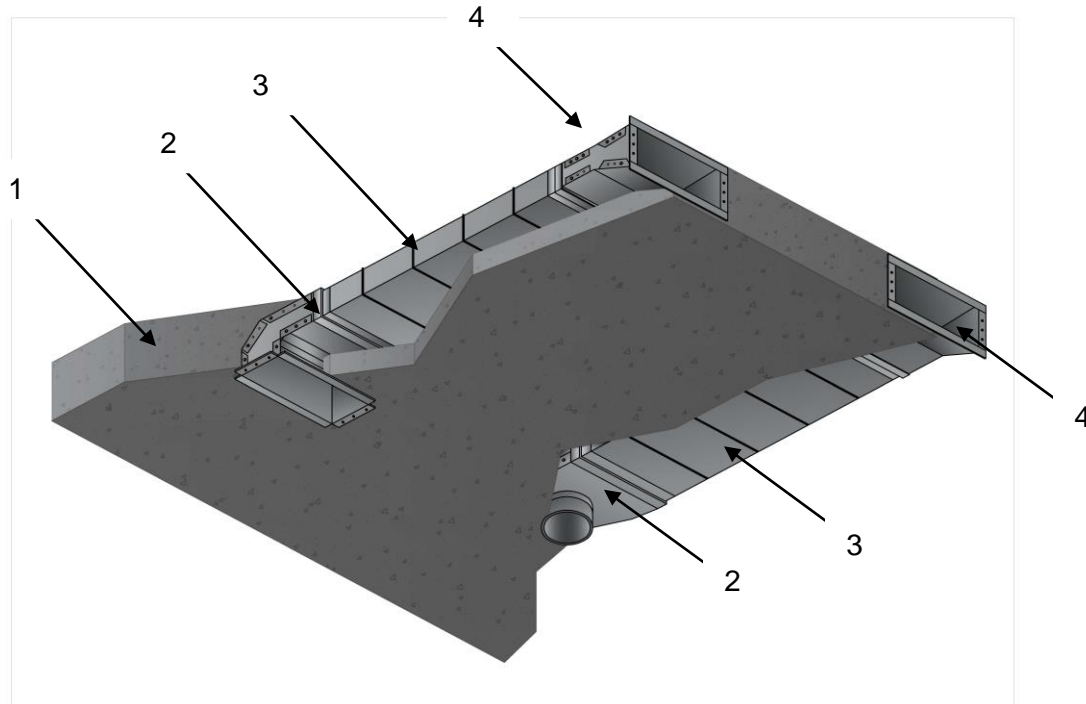


**QAI Design B1135-1 – NWSM – DDK 2022 Systems  
 CAN/ULC S115 / ASTM E814 Fire Stop Systems**



**NWSM – DDK 2022 PRODUCTS FIRESTOP SYSTEM RATINGS**

Fitting Type	Maximum Inlet Size (in <sup>2</sup> )	Duct Height (in)	Minimum Slab Thickness (in)	Intumescent pad	F, FH Rating (min)	T, FTH Rating (min)
Fire stopped Inlet boot	49	1-3/4	6	single layer	120	90
Fire stopped Inlet boot	49	1-3/4	6-1/4	single layer	120	120
Fire stopped Inlet boot	49	1-3/4	6	two layers	120	120
Dual fire stopped inlet boot	98	1-3/4	6	two layers	120	90
Fire stopped Inlet boot	49	1-3/4	8	two layers	180	180
Standard Inlet boot	49	1-3/4	8	none	180	120
Dual Fire Stopped Inlet Boot	98	2	7	two layers	120	90
Fire Stopped Inlet Boot	49	2	7	two layers	120	120

No.	COMPONENT	DESCRIPTION	
1	Concrete Slab	Approved Types:	Minimum 25 MPa (3,500 psi) compressive strength at 28 days, with 9.5 mm (0.375 in.) to 14 mm (0.55 in.) rock aggregate.
		Thickness:	See Table above.
		Installation:	Design and installation to be done in accordance with applicable code, with rebar placement below the duct assemblies.
2	Inlet Boot	Approved Types:	DDK rectangular boot of maximum 305 mm (12 in.) length, 152 mm (6 in.) width, and 44.5 mm (1.75 in.) depth composed of galvanized steel. DDK Circular boot of maximum 152 mm (6 in.) diameter composed of galvanized steel.
		Thickness:	Minimum 26 Gauge.
		Installation:	Inlet boots are fixed in position prior to concrete placement. Inlet boots by DDK are delivered to the jobsite incorporating intumescent.
3	Slab Duct	Approved Types:	DDK duct of maximum 44.5 mm (1.75 in.) high by 308 mm (12 in.) width composed of galvanized steel.
		Installation:	Installation to be done with ABS chairs along the duct inlet and outlets, fixed during concrete placement.
4	Discharge (Outlet) Boot	Approved Types	DDK rectangular boot of 305 mm (12 in.) length, 152 mm (4 in.) discharge opening size.
		Installation:	Placement of outlet boot is required prior to placement of concrete.

Diagram outlined above is a typical NWSM – DDK 2022 installation example. Different accessories are available and not shown above and may be used within the context of this listing based on installation requirements where the concrete covering and ducting depths are maintained.

Concrete floors rebar and load carrying capacity to be determined by the registered design professional or Authority Having Jurisdiction and are outside the scope of this listing.