SS/NS

## **SENATE** STATE OF MINNESOTA NINETY-THIRD SESSION

## S.F. No. 4057

		TAFSON)
DATE	D-PG	OFFICIAL STATUS
02/22/2024		Introduction and first reading
2/22/2024		Referred to Judiciary and Public Safety

1.1	A bill for an act
1.2 1.3 1.4	relating to the State Fire Code; establishing fire life safety damper testing; authorizing rulemaking; proposing coding for new law in Minnesota Statutes, chapter 299F.
1.5	BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MINNESOTA:
1.6	Section 1. [299F.49] DEFINITIONS.
1.7	Subdivision 1. Scope. As used in sections 299F.49 and 299F.491, the terms defined in
1.8	this section have the meanings given.
1.9	Subd. 2. Approved skill training program or program. "Approved skill training
1.10	program" or "program" means a Class A apprenticeship training program that is registered
1.11	with and approved by the United States Department of Labor or the commissioner of labor
1.12	and industry involving at least 8,000 hours of documented practical experience in the
1.13	installation, maintenance, and servicing of HVAC systems and providing both apprenticeship
1.14	training and training to upgrade skills of journeypersons in the skills of the HVAC industry,
1.15	including those relating to fire safety equipment.
1.16	Subd. 3. Building. "Building" means a building equipped with fire life safety dampers,
1.17	a smoke control system, or an HVAC duct system that contains fire life safety dampers or
1.18	is part of a smoke control system. Building does not include single family residential
1.19	buildings or multifamily buildings with four or fewer units.
1.20	Subd. 4. Combination fire smoke damper. "Combination fire smoke damper" means
1.21	a device that meets both the fire damper and smoke damper requirements.

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2.1	Subd. 5. Dedicated smoke control system. "Dedicated smoke control system" means
2.2	a smoke control system and components that are installed for the sole purpose of providing
2.3	smoke control and that upon activation of the systems operate specifically to perform the
2.4	smoke control function.
2.5	Subd. 6. Fire damper. "Fire damper" means a device installed in an air distribution
2.6	system that is designed to close automatically upon detection of heat, to interrupt migratory
2.7	airflow and to restrict the passage of flame. Fire damper includes devices installed in air
2.8	conditioning systems to close automatically upon detection of heat, to interrupt migratory
2.9	airflow, and to restrict the passage of flames. A fire damper also includes a combination
2.10	fire smoke damper.
2.11	Subd. 7. Fire life safety dampers. "Fire life safety dampers" means all fire dampers,
2.12	smoke dampers, and combination fire and smoke dampers.
2.13	Subd. 8. Fire life safety damper testing. "Fire life safety damper testing" means testing
2.14	and inspection activities, including all physical, visual, and operational tests necessary to
2.15	ensure the complete opening, closing, and the proper functioning of fire life safety dampers
2.16	as required by the IFC, NFPA 80, NFPA 105, and applicable engineering specifications.
2.17	Subd. 9. HVAC. "HVAC" means heating, ventilation, and air conditioning.
2.18	Subd. 10. ICB. "ICB" means the International Certification Board.
2.19	Subd. 11. IFC. "IFC" means the International Fire Code.
2.20	Subd. 12. Independent contractor. "Independent contractor" means a company that is
2.21	not owned or managed by the building owner, or an immediate family member of the
2.22	building owner, of the building being inspected and includes any subsidiary companies of
2.23	the independent contractor.
2.24	Subd. 13. ISO/IEC 17024. "ISO/IEC 17024" means the International Organization for
2.25	Standardization/International Electrotechnical Commission 17024 international standard
2.26	for Conformity Assessment - General Requirements for Bodies Operating Certification of
2.27	Persons.
2.28	Subd. 14. NFPA. "NFPA" means the National Fire Protection Association.
2.29	Subd. 15. NFPA 80. "NFPA 80" means the current adopted version of the Standard for
2.30	Fire Doors and Other Opening Protectives.
2.31	Subd. 16. NFPA 105. "NFPA 105" means the current adopted version of the Standard
2.32	for Smoke Door Assemblies and Other Opening Protectives.

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3.1	Subd 17 NI	7 <b>PA 92</b> "NFPA 9	)?" means the d	current version of the Standa	ard for Smoke
3.2	Control Systems				
2.2		_	la control syst	m "Nondedicated smake	ontrol system"
3.3 3.4				t <b>em.</b> "Nondedicated smoke contents with some other systematics."	
3.5		Ť		of operation to achieve the si	
3.6	objective.	system, that char	iges its mode c	n operation to define ve the si	noke-control
3.7			ke damper ins	spector. "Qualified fire smol	ke damper
3.8	inspector" mean	<u>s:</u>			
3.9	(1) an author	ized state or loca	l fire departme	ent personnel; or	
3.10	(2) a technic	ian certified by th	ne ICB as a fire	e smoke damper technician o	or through an
3.11	equivalent certif	ication program a	ccredited under	the ISO/IEC 17024 personn	el certification.
3.12	The technician n	nust be employed	by an indepen	dent contractor that provides	s fire life safety
3.13	damper inspection	on services and s	hall:		
3.14	<u>(i) maintain (</u>	current workers' o	compensation i	nsurance coverage;	
3.15	<u>(ii) hold an I</u>	CB Fire and smo	ke damper con	tractor certification, or equi	valent
3.16	certification, fro	m an organizatio	n that has been	accredited under the ISO/II	EC 17024
3.17	Personnel Certif	ication standard	in fire life safe	ty damper inspections; and	
3.18	(iii) participa	ite in an approved	d skill training	program.	
3.19	<u>Subd. 20.</u> Qu	alified smoke co	ontrol system i	nspector. "Qualified smoke	control system
3.20	inspector" mean	<u>s:</u>			
3.21	(1) an author	rized state or loca	l fire departme	ent personnel; or	
3.22	(2) a technic	ian certified by I	CB as a smoke	control systems technician	or through an
3.23	equivalent certif	ication program a	ccredited under	the ISO/IEC 17024 personn	el certification.
3.24	A smoke contro	l systems technic	ian shall also b	e a TABB technician certifi	ed by the
3.25	Associated Air I	Balance Council,	the National E	nvironmental Balancing Bu	reau, or the
3.26	Testing, Adjusti	ng and Balancing	g Bureau. The t	echnicians must be employe	ed by an
3.27	independent con	tractor that provid	les fire life safe	ty damper testing services. T	he independent
3.28	contractor must:				
3.29	(i) maintain (	current workers' o	compensation i	nsurance coverage;	
3.30	(ii) hold an I	CB smoke control	l system contra	ctor certification or equivale	ent certification
3.31	from an organiz	ation that has bee	en accredited u	nder the ISO/IEC 17024 Per	sonnel
3.32	Certification sta	ndard in smoke c	ontrol systems	inspections; and	

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4.1	(iii) participate in an approved skill training program.
4.2	Subd. 21. Smoke control system. "Smoke control system" means an engineered system
4.3	that includes all methods that can be used singly or in combination to modify smoke
4.4	movement, including engineered systems that use mechanical fans to produce pressure
4.5	differences across smoke barriers to inhibit smoke movement.
4.6	Subd. 22. Smoke damper. "Smoke damper" means a device within an air distribution
4.7	system to control the movement of smoke. Smoke damper includes devices installed in air
4.8	conditioning systems to control the movement of smoke. A smoke damper also includes a
4.9	combination fire smoke damper.
4.10	Subd. 23. Subsidiary. "Subsidiary" means any corporation or other organization, whether
4.11	incorporated or unincorporated, in which the company owns, directly or indirectly, any
4.12	equity or other ownership interest.
4.13	Sec. 2. [299F.491] FIRE LIFE SAFETY DAMPER SYSTEM.
4.14	Subdivision 1. Requirement. The owner of a building shall establish a fire life safety
4.15	damper and smoke control system inspection verification program to ensure that fire life
4.16	safety dampers and smoke control systems are in working order to prevent the spread of
4.17	fire and smoke throughout a building.
4.18	Subd. 2. Required testing. (a) All owners of buildings are responsible for ensuring that
4.19	newly installed fire life safety dampers are subject to fire life safety damper testing under
4.20	this section or under rules adopted by the state fire marshal before use is permitted.
4.21	(b) The testing of fire life safety dampers must include the visual inspection method in
4.22	accordance with NFPA 80 and NFPA 105.
4.23	(c) Once installed, a building owner must periodically inspect and test fire life safety
4.24	dampers no less than once after the first year of installation, and once every four years
4.25	thereafter, except for hospitals. In hospitals, the building owner must inspect and test fire
4.26	life safety dampers no less than once after the first year of installation and once every six
4.27	years thereafter. The periodic testing of fire life safety dampers must include the visual
4.28	inspection method in accordance with NFPA 80 and NFPA 105. The remote inspection
4.29	method, as defined in NFPA 80 and NFPA 105 must not be used in place of visual inspection
4.30	for the periodic testing required under this subdivision. All fire and smoke dampers must
4.31	be tested as required under this section regardless of location.
4.32	Subd. 3. Required qualifications of individual testers of fire smoke dampers. (a)
4.33	The state fire marshal shall establish and administer a program to review and approve

5.1	third-party inspection training and certification programs to ensure conformance to the
5.2	minimum qualifications under this section.
5.3	(b) Inspections and tests under this section must be performed by a qualified inspector.
5.4	For the purposes of this section, a "qualified inspector" means:
5.5	(1) authorized state or local fire department personnel; or
5.6	(2) qualified fire smoke damper inspector.
5.7	Subd. 4. Required testing of smoke control systems. (a) A building owner is responsible
5.8	for ensuring that smoke control systems under this section are tested for acceptance as
5.9	required by the applicable NFPA standards referenced in this section or as set forth in rules
5.10	adopted by the state fire marshal.
5.11	(b) Once installed, the building owner must periodically inspect and test smoke control
5.12	systems at the following intervals:
5.13	(1) dedicated smoke control systems shall be tested at least semiannually; and
5.14	(2) nondedicated smoke control systems shall be tested at least annually.
5.15	(c) Testing of smoke control systems shall include tests to determine that airflow
5.16	quantities and pressure differences are code compliant, including at the following locations:
5.17	(1) across smoke barrier openings;
5.18	(2) at the air makeup supplies; and
5.19	(3) at smoke exhaust equipment.
5.20	Subd. 5. Required qualifications of individual testers of smoke control systems. (a)
5.21	The state fire marshal shall establish and administer a program to review and approve
5.22	third-party inspection training and certification programs to ensure conformance to the
5.23	minimum qualifications set forth in this section.
5.24	(b) Inspections and tests under this section shall be performed by a qualified inspector.
5.25	For the purposes of this section, qualified inspector means:
5.26	(1) authorized state or local fire department personnel; or
5.27	(2) a qualified smoke control system inspector.
5.28	Subd. 6. Certificate of operation. (a) If the fire life safety dampers, smoke control
5.29	systems, or HVAC duct system that contains a fire life safety damper or is part of a smoke

5.30 <u>control system pass the applicable inspections and tests, the person performing the inspection</u>

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or test shall e	xecute a certificate	of operation v	erifying compliance with t	his section. Th
certificate of	operation shall prov	vide the follow	ing information:	
<u>(1) the na</u>	me and certification	n number of the	e individual conducting the	e inspection or
est;				
(2) the na	me of the inspector	's employer;		
(3) the na	me of the building	owner and add	ress of the property;	
(4) the loc	cation of all smoke	dampers, fire d	lampers, combination fire/	smoke damper
and smoke co	ontrol systems inspe	ected or tested;	and	
(5) the da	te of the inspection	or test.		
(b) The bu	uilding owner shall r	naintain a copy	of the certificate of operatio	on on the build
property and	make the certificate	e available for	inspection upon request.	
Subd. 7. 7	<b>Festing failures</b> . (a)	) In the event a	n inspection or test reveals	deficiencies
·	<u>v</u>		ns, the person who conduct	
	-	-	building owner identifying	
•	· · · · ·	•	deficiency report shall also	
		•	acting the inspection or test	
			ress of the property; the lo	•
			oke dampers, and smoke c	
	•		on or test. The building ow	
•		•	<b>~</b>	
		• •	nt is replaced or repaired and	•
	•		rements have been achieve	
owner who d	oes not comply wit	hin 30 days is	in violation of this section.	
(b) The b	uilding owner shall	post a notice c	f verification of the testing	g and inspection
of fire life sa	fety dampers and sr	noke control s	ystems in the outside lobby	v window of t
building or o	ther area clearly vis	bible to the pub	lic. The verification shall s	tate the addre
of the buildin	ig and the date of th	e last fire life	safety damper inspection, s	smoke control
system inspe	ction, and the date t	hat each inspe	ction expires.	
<u>Subd. 8.</u>	Submissions and ir	nspections. (a)	Building owners shall sub	mit copies of
operation cer	tificates to the state	fire marshal d	ocumenting compliance w	ith the testing
requirements	of this section with	in 30 days of c	btaining certificates of ope	eration. The st
fire marshal s	shall commence enf	forcement action	ons for any instance of non	compliance.
<u>(b)</u> When	the state fire marsh	al conducts an	annual fire inspection of a	ıny building, i
shall inspect	the building owner'	s fire life safet	y dampers, smoke control	systems, and
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7.1	HVAC duct syst	em that contain	a fire life safety d	amper or is part of a smol	ke control system
7.2	control system of	certificate of ope	eration to ensure i	t complies with the requ	irements of this
7.3	section and com	mence enforcer	ment actions if vio	plations are found.	
7.4 7.5	·		•	ate fire marshal shall ass ilding owner in violatior	
7.6	Sec. 3. <u>EFFE</u>	<u>CTIVE DATE.</u>			
7.7	This act take	es effect the day	following enactn	nent of administrative ru	les to review and
7.8	approve third-pa	arty inspection t	raining and certif	ication programs by the	state fire marshal

7.9 or July 1, 2025, whichever occurs first.