

**DIRECTIVE 056 PROCESS FOR PIPELINE APPLICATIONS FOR FIBERSPAR, FLEXPIPE, OR FLEXSTEEL COMPOSITE PIPES**

Note: Updated March 17, 2009, to reflect CSA Z662-07, the Pipeline Regulation (AR 91/2005), and the June 2008 edition of Directive 056.

All Directive 056 pipeline applications using fiberspar, flexpipe, or flexsteel pipe may be submitted as routine except for flexsteel applications that contain H<sub>2</sub>S, which must be submitted as nonroutine.

Flexsteel pipe has sour service restrictions and must be submitted as a nonroutine application (check “does not meet CSA” checkbox) when installed either as a free-standing liner or as a direct-burial pipe and where H<sub>2</sub>S is present.

The following chart describes the allowable pressures and services for each pipeline type. This chart is subject to change with new editions of CSA Z662, revisions to the Pipeline Regulation, or upon further material testing.

Pipeline Type	Service	Allowable H <sub>2</sub> S Content	Allowable Pressures	Application Type
Fiberspar FSLP	OE, SW, FW, CO, LV	Any amount	Any pressure to maximum rating of pipe for that service condition	Routine
	NG, FG	10 mol/kmol maximum H <sub>2</sub> S content (ERCB limit), but also 50 kPa H <sub>2</sub> S partial pressure maximum (CSA Z662 limit)	9930 kPa maximum (CSA Z662 limit)	Routine
Flexpipe FPLP	OE, SW, FW, CO, LV	Any amount	Any pressure to maximum rating of pipe for that service condition	Routine
	NG, FG	10 mol/kmol maximum H <sub>2</sub> S content (ERCB limit), but also 50 kPa H <sub>2</sub> S partial pressure maximum (CSA Z662 limit)	9930 kPa maximum (CSA Z662 limit)	Routine
Flexsteel WSLP	SW, FW, CO, LV	5.5 kPa H <sub>2</sub> S partial pressure maximum (ERCB limit)	Any pressure to maximum rating of pipe for that service condition	Nonroutine
	NG, OE	5.5 kPa H <sub>2</sub> S partial pressure maximum (ERCB limit)	6620 kPa maximum (ERCB limit)	Nonroutine
	OE, SW, FW, CO, LV	None	Any pressure to maximum rating of pipe for that service condition	Routine
	NG, FG	None	9930 kPa maximum (CSA Z662 limit)	Routine

CO – crude oil, FG – fuel gas, FW – fresh water, LV – LVP products, NG – natural gas, OE – oil effluent, SW – salt water

Questions may be directed to the Directive 056 electronic helpline at [Directive056.help@ercb.ca](mailto:Directive056.help@ercb.ca) or to the Directive 056 telephone helpline at 403-297-4369. Questions regarding operational or technical issues relating to composite pipe may be directed to Dave Grzyb at 403-297-8432.