

US Version



# Q&A

NOVA **FORM**<sup>™</sup>  
PVC LINER

For Contractors Only

**Q What is NovaForm PVC Liner?**

**A** NovaForm PVC Liner is a factory-made “Expand-in-Place” product for the trenchless rehabilitation of sewer and culvert systems. It is extruded, flattened and coiled onto reels for shipment.

**Q For what applications is NovaForm used?  
How do I know if NovaForm is right for my project?**

**A** NovaForm PVC Liner is suitable for a wide range of sewer and culvert rehabilitation projects but not all. Depending on the condition of the existing host pipes, water and root infiltration, buildup and other factors, each project should be carefully analyzed.

In order to determine whether NovaForm is right for a given project, the details of the project will need to be reviewed by IPEX. Please contact your local IPEX representative for any project inquiries.

Additional information can also be found within the NovaForm Training Manual, Trenchless Installation Guide and industry resources such as NASSCO’s Performance Specification Guideline for the Installation of Folded (Thermoplastic) Pipe (FP).

**Q Can NovaForm be used for potable water applications?**

**A** No – NovaForm is designed for use in gravity (non-pressure) applications such as sanitary and storm sewers or culverts.

**Q What are the material properties of NovaForm PVC Liner?**

**A** The material properties and further technical information for NovaForm PVC Liner can be found on the NovaForm Product Data Sheet.

**Q Is NovaForm considered to be a structural liner?**

**A** NovaForm can provide structural strength to an existing deteriorated host pipe. All installations are different and IPEX can help evaluate the structural strength of NovaForm for each project.

**Q What colour is NovaForm and how is it marked?**

**A** NovaForm is white with a black print line and length marking every 5ft / 1.6m. The white colour provides the best visibility for post-installation camera inspection, lateral cutting and reinstatement. The length marking allows for easy identification of distance covered in the installation, as well as remaining product on the reel for subsequent installations.

**Q What sizes and lengths is NovaForm available in?**

**A** NovaForm is available in various sizes and lengths, depending on product and reel size. See below for approximate maximum lengths per size, as well as reel dimensions.

Nominal Pipe Size		Maximum Lengths on Different Reel Sizes (ft)		
in	mm	8' Tall x 4' Wide	8' Tall x 6' Wide	8' Tall x 8' Wide
6	150	1,350	–	–
8	200	950	–	–
10	250	550	–	–
12	300	420	–	–
15	350	400	660	940
18	450	220	490	780
24	600	150	260	450
30	750	125	190	325

**Q Are the metal reels for NovaForm re-useable?**

**A** The metal reels can be re-used, though it is the customer’s responsibility to ship them back to the plant for re-use. In all likelihood, the cost of freight will outweigh the potential savings of re-using the reel, unless the project is located within close range of the manufacturing plant.

**Q What is the price of NovaForm?**

**A** NovaForm pricing will be set on a project-by-project basis, and will be competitive in the marketplace.

**Q What is the standard lead time for delivery of NovaForm?**

**A** NovaForm is manufactured on a made-to-order basis specific to the project requirements (size and length requirements). As such, the lead time for delivery can be anywhere from 4-8 weeks after receipt of Purchase Order.

**Q Where is NovaForm manufactured?**

**A** NovaForm is manufactured by IPEX in Toronto, Ontario and from there is shipped to customers across North America.



**Q How does NovaForm compare with CIPP?**

**A** NovaForm has many of the same benefits when compared against CIPP such as: minimal disruption to residents or the surrounding environments; limited or no excavation required; cost and labour savings; several other benefits.

### NovaForm PVC Liner

Benefits	Limitations
<ul style="list-style-type: none"><li>• Factory made</li><li>• Quality controlled</li><li>• Smooth interior surface</li><li>• Excellent chemical resistance</li><li>• 25 years of usage</li><li>• Finished product less dependent on contractor</li><li>• Laterals can be reinstated the same day</li><li>• No release of chemicals or odors</li><li>• No styrene</li></ul>	<ul style="list-style-type: none"><li>• Size range up to 30"</li></ul>

**Q To which standards and certifications are NovaForm made?**

**A** NovaForm conforms to ASTM F1504: Standard Specification for Folded Poly (Vinyl Chloride) Pipe for Existing Sewer and Conduit Rehabilitation.

The product is also CSA and BNQ certified to ASTM F1504.

**Q What are some of the Quality Control tests that NovaForm is tested to?**

**A** NovaForm is tested in numerous ways including:

- Material physical property testing (ASTM D1784)
- Pipe diameters and wall thicknesses (ASTM D2122)
- Impact resistance (ASTM D2444)
- Stiffness (ASTM D2412)
- Extrusion quality: Acetone Immersion (ASTM D2152) and Heat Reversion (ASTM D1057)
- Flexural properties (ASTM D790)
- Pipe flattening

Please refer to the NovaForm Product Data Sheet for more details

**Q How should NovaForm be stored?**

**A** NovaForm should be stored on the reels in which it is shipped, and protected from the elements. If stored outdoors, it should be covered with a tarp to prevent UV exposure.

**Q How is NovaForm installed?**

**A** An overview of the NovaForm installation can be found in the NovaForm Product Data Sheet and Trenchless Applications Installation Guide. A step-by-step installation guide can be found in the NovaForm Training Manual.

**Q Is special training needed in order to install NovaForm?**

**A** Yes – NovaForm requires training in order to understand how to properly install it. A step-by-step guide (NovaForm Training Manual) has been developed but is not a substitute for in-person training provided by IPEX. Please contact your local IPEX representative directly to discuss scheduling of training and requirements.

**Q** What equipment is necessary to install NovaForm, and how much does it cost?

**A** Installation of NovaForm requires specific equipment and tooling, though many of the major components are the same, or very similar to those used for conventional CIPP installations. A general list is attached, along with approximate price ranges. This is by no means an exhaustive or exclusive list; some of the items are custom built, and can be substituted with other devices to perform the same functions.

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## NovaForm Installer Equipment Check List

A SIDE		Approximate Costs	
		LOW	HIGH
1	TRUCK – Boiler & Installation	\$125,000	\$150,000
2	Boiler	\$40,000	\$50,000
3	Generator	\$20,000	\$30,000
4	Air Compressor	\$10,000	\$15,000
5	2 Water Containers	\$1,000	\$1,250
6	6" plug set	\$2,000	\$2,500
7	8" plug set	\$2,000	\$2,500
8	10" plug set	\$2,500	\$3,000
9	12" plug set	\$3,000	\$3,750
10	15" plug set	\$3,000	\$3,750
11	18" plug set	\$8,000	\$9,000
12	24" plug set	\$12,000	\$13,500
13	30" plug set	\$18,000	\$20,000
14	Plug support bars	\$3,000	\$3,500
15	Plug hose - blow out condensate	\$200	\$250
16	Water bucket	\$10	\$15
17	Insulated tarps	\$200	\$250
18	Manhole top roller	\$1,500	\$2,000
19	Inside roller	\$2,000	\$2,500
20	Forming device	\$5,000	\$6,000
21	Air hose	\$50	\$75
22	Hand drill with hole saw set	\$300	\$400
23	Reciprocating saw w/blades	\$100	\$150
24	Propane & torch	\$100	\$150
25	Metal strapper	\$100	\$150
26	Oil sprayer	\$75	\$100
27	Water sprayer – keeps plug cool during expansion	\$75	\$100
28	Steam hose to plug	\$500	\$750
29	TRAILER – Coil Conditioning (steam box)	\$25,000	\$35,000
30	Thermocouple reader	\$1,500	\$1,800
31	Manhole tripod lift	\$1,000	\$1,250
32	Hand grinder/cut off tool with diamond wheel	\$200	\$250
33	Rope with ratchet pulley	\$200	\$250
34	Ladder	\$200	\$250
B SIDE			
35	TRUCK – Pick up	\$25,000	\$40,000
36	Winch	\$35,000	\$100,000
37	Air compressor	\$500	\$750
38	Steam hose and manifold (valve, pressure gauge, temp gauge)	\$2,000	\$2,500
39	Cleanout plugs (pigs)	\$2,000	\$2,500
40	Aircraft cable liner tip	\$500	\$650
41	Air hose	\$50	\$75
42	Manhole – tripod lift	\$1,000	\$1,250
43	Rope with ratchet pulley	\$200	\$250
44	Hand drill with hole saw set	\$300	\$400
45	Reciprocating saw/blades	\$100	\$150
46	Propane & torch	\$100	\$150
47	Hand grinder/cut off tool & diamond wheel	\$200	\$250
48	Insulated tarps	\$200	\$250
49	Inside roller	\$2,000	\$2,500
50	Ladder	\$200	\$250
51	Water sprayer – keeps plug cool during expansion	\$75	\$100
52	TRUCK – Vacuum and Water flusher	\$275,000	\$350,000
53	TRUCK – Camera inspection truck with lateral cutting tools	\$200,000	\$250,000
<b>Total (low and high):</b>		<b>\$832,235</b>	<b>\$1,111,465</b>



# NOVAFORM™

PVC LINER



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