

# RED THREAD® IIA Installation Checklist

Instructions for Underground Petroleum Piping for Motor Vehicle,  
Concentrated, High Blend, Aviation and Marine Fuels  
(Review the "Important Notice Section" on page 2 before completing)

Red Thread IIA UL/ULC Listed primary and secondary piping systems are rated to the following maximum operating ratings:  
**PRIMARY:** 2" @ 250 psig, 3" @ 175 psig, 4"- @ 125 psig      **SECONDARY:** 3"-4" @ 50 psig; 6" @ 20 psig

**Owner / Operator** (please print & sign name)

Job Site Address \_\_\_\_\_

Job Site Representative \_\_\_\_\_ (signature) \_\_\_\_\_

**Installation Contractor/Foreman** \_\_\_\_\_ (signature) \_\_\_\_\_

**Installation Date(s)** \_\_\_\_\_

To be initialized by:

	Installer's Foreman	Owner/Operator Rep.
<b>PRE-INSTALLATION CHECKLIST</b> (Indicate date verified after each item.) Installer shall show evidence that he/she is: 1. Licensed or certified by the state implementing agency, or 2. Trained by the pipe manufacturer.		
Installer has current manufacturer's installation instructions: 1. Instructions dated 2. Installation manual number		
Pipe & Fittings have UL (Underwriters' Laboratories) or ULC (Canada) label:		
Proper Tools and adhesive available per manufacturer's instructions:		
Pipe & Fittings inspection: 1. Impact or puncture....Cut out. See Footnote 1 for repairs. 2. Damaged tapers...Cut off and retaper. 3. Check bonding surfaces for ultraviolet weathering degradation.		
Trench: 1. Allow for minimum of 6" bedding material 2. Have required slope per owners specification. 3. Width: Allow for 4" minimum separation between pipes and 6" minimum from trench walls.		
Approved backfill ( <b>NO</b> native soil) 1. Clean washed sand, or. 2. Pea gravel - 1/8" to 3/4" particle size, or 3. Refer to Footnote 1 for other backfill materials.		
<b>INSTALLATION PROCEDURES</b> (Indicate date verified after each item.) 1. 6" of approved bedding material. 2. Dry fit system prior to adhesive bonding, see Footnote 1. 3. Heat assist required for adhesive curing when temperature is below 50°F (10°C). See Footnote 1. 4. A minimum separation of 4" between pipe runs and 2½" on crossovers. 5. Bedding/backfill supports pipe completely on runs and crossovers. 6. Minimum of 6" approved backfill cover material or more as required by local authorities. 7. If surface is unpaved, a minimum of 17" of approved backfill is required.		
<b>INSPECTION AND TESTING</b> (Indicate date verified after each item.) 1. Cocked joints (misaligned tapers). See Footnote 2. 2. Joint Back off, See Footnote 2. 3. Check for proper cure of adhesive bond. See kit instructions. 4. Test system in accordance with NFPA 30 or local requirements, See Footnote 3. 5. Secondary containment piping, See Footnote 1.		

[www.fgspipe.com](http://www.fgspipe.com)

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**NOV** Fiber Glass Systems

#### FOOTNOTES:

1. See Installation Manual B2160. Available at [www.fgspipe.com](http://www.fgspipe.com).
2. Connections must be removed and replaced.
3. **It is recommended that after the initial system test has been completed, a low pressure (25 psig maximum) be kept on tested pipe during the completion of the installation. If pressure loss occurs, repairs can be accomplished before system goes into service.**

**CAUTION: Testing with compressed air is extremely dangerous and is not recommended. If compressed air is used, proceed with extreme caution and follow safety precautions stated in the manufacturer's instructions. Isolate piping system from tank prior to testing.**

#### IMPORTANT NOTICE

1. NOV Fiber Glass Systems' checklist addresses subjects of a general nature associated with the installation of Red Thread IIA piping as a part of underground storage tank (UST) systems. Federal, State and local laws and regulations governing such installations and UST systems should be reviewed. The types of work covered by the checklist should be performed by trained installers.
2. Red Thread IIA UL/ULC Listed fiberglass pipe installation, when performed by manufacturer-trained installers in accordance with the manufacturer's installation instructions and verified by the installer and the owner/operator representative on an installation checklist, is a method to demonstrate compliance with Federal, State and local laws and regulation governing such installations. The use of non-qualified personnel or any deviations from the recommended procedures could result in damage or leakage of the system.
3. **When the installation checklist is complete, one copy should be retained in the installer's files and one copy on the owner/operator's file.**
4. NOV Fiber Glass Systems is not undertaking to meet the duties of underground storage tank system owner/operators, employers, manufacturers, or supplier to warn and properly train and equip their employees, and others exposed or in contact with fiberglass piping and materials, concerning their obligations under Federal, State or local laws or regulations, as well as health and safety risks and precautions.
5. Information concerning safety and health risks and proper precautions with respect to particular materials and conditions should be obtained from the manufacturer or supplier of the material, or the applicable material safety data sheet.
6. THE INSTALLATION CHECKLIST MAY BE USED BY ANYONE DESIRING TO DO SO. EVERY EFFORT HAS BEEN MADE BY NOV FIBER GLASS SYSTEMS TO ASSURE THE ACCURACY AND RELIABILITY OF THE INFORMATION IT CONTAINS. HOWEVER, THE COMPANY MAKES NO REPRESENTATION, WARRANTY, OR GUARANTEE IN CONNECTION WITH THIS CHECKLIST AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY OR RESPONSIBILITY FOR LOSS OR DAMAGE, INCLUDING PERSONAL, INJURY OR PROPERTY OR OTHER DAMAGES OR WHATEVER NATURE, RESULTING FROM ITS USE OR FOR THE VIOLATION OF ANY FEDERAL, STATE, OR LOCAL LAW OR REGULATION WITH WHICH THIS CHECKLIST MAY CONFLICT.
7. If you have questions concerning the proper installation of Red Thread IIA fiberglass piping, contact the manufacturer.

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