



**INSTALLATION
CHECKLISTS
FOR FIBERTEK
FIBER GLASS
UltraTEK Wall
Spray Sytem™
(UWSS)**

www.fibertekinsulation.com

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UltraTEK WALL SPRAY SYSTEM™ -- 1.8 lb/cu.ft density						
FRAME TYPE	FRAME DEPTH	DENSITY lbs/Cu.Ft.	R-VALUE	Bags per 1000 s.f.	Max. s.f. per bag	Min. wt. lbs / s.f.
			To obtain a thermal resistance of:	The number of bags/1000sf of net area should not be less than:	Contents of this bag should not cover more than:	Contents of this bag should not cover more than:
2 x 4	3 1/2"	1.6	15	17.8	56.1	0.534
2 x 6	5 1/2"	1.6	23	27.3	36.6	0.819

NOMINAL BAG WEIGHT - 30lbs

Introduction

UltraTEK™ is a premium fiber glass blow-in insulation wall spray product and is designed to be used as thermal and sound absorbing insulation in the proprietary UltraTEK Wall Spray System™ (UWSS). This booklet contains information and general instructions that will aid in the installation of the UltraTEK Wall Spray System™. To ensure R-Value, it is required that the work be performed by a trained professional. The UltraTEK Wall Spray System™ is a pneumatic installation designed for application in enclosed construction assemblies (sidewalls). The installation process is more complex than batts, rolls or “dry” blow-in wall systems because it requires a blowing machine fitted with special apparatus and applicators. This dictates that workers and installers be carefully and specifically trained to install the UltraTEK Wall Spray System™ in strict accordance with coverage charts, material mixtures, etc.. (See Above)

Consumer Information

FTC Home Insulation Rule

The United States Federal Trade Commission’s Labeling and Advertising of Home Insulation Rule requires installers to provide each customer (builder or consumer) with a signed and dated contract or receipt for the UltraTEK Wall Spray System™ insulation installed.

The receipt for UltraTEK Wall Spray System™ must show the type of insulation, coverage area, thickness, R-value and number of bags installed. Installers must have this information and show it to customers before they agree to buy the insulation.

A new-home seller must put the following information in every sales contract: the type, thickness, and R-value of the insulation that will be installed in each part of the house.

Installation - General

UltraTEK™ premium fiber glass insulation can generally be installed in all sidewall areas but cannot be left exposed or applied to overhangs or angled features. UltraTEK™ is properly installed by R-Value, not inches of thickness. The “R” stands for resistance to the flow of heat and is a measure of how effective the installed insulation will be.

The higher the R-value the greater the insulating power. Ask your seller for the fact sheet on R-values. It is important that the R-value being considered is the value for the total amount of insulation used.

Job Planning

Estimating the number of bags of UltraTEK™ blowing fiber glass is critical. The coverage chart on the label along with the Fact Sheet can be used to determine the amount of insulation needed. Adhesive will also be determined by the calculation of UltraTEK™ blowing fiber glass needed. Consult with your FiberTEK Technical Services representative for any help that you might need. The correct and current formula is important in obtaining a high quality job and an economical performance.

UltraTEK™ blowing wool

- FiberTEK UltraTEK™ Blowing Fiber Glass has a wall coverage chart printed on each and every bag. Fact Sheets are also available along with Coverage Charts and Attic Cards.
- The amount of UltraTEK Adhesive will vary depending on your specific application. Consult with your FiberTEK Technical Services representative for any help that you might need.
- In order to achieve the specified R-value, UltraTEK Wall Spray System™ must be installed so that at least the minimum thickness and weight per square foot

are achieved. The UWSS installer will install at least the minimum number of bags per 1000 square feet as specified on the coverage chart on the bag label or Fact Sheet. (See above).

- The number of bags per 1,000 sq. ft. is based upon net area, which is the total area minus the area covered by framing members and other obstructions, while job size is usually figured as total (or gross) area.
- Because the net area will always be smaller than the gross, the number of bags per 1,000 sq. ft. of gross area may be reduced slightly, generally 3 to 8 percent, from the number on the label.
- However, the coverage table makes no allowance for the additional material that might be needed where blowing is difficult at obstructions where the insulation may overspray.

UltraTEK Wall Spray System™ Quick List for Job Planning

The following lists are simple reminders to supplement training. Correctly estimating the amount of UltraTEK insulation and adhesive will ensure efficiency. Planning the work will help produce a consistent high quality job with the added benefit of containing costs. Planning the job will also meet time objectives and result in happier customers and workmen.

Pre Installation Work Checklist

Training of the installation crew is essential to ensure that the UltraTEK Wall Spray System™ is installed correctly and to meet time and cost objectives.

The list below is a partial list of activities that need to be accomplished before the job begins. Other material and equipment might be added to the list due to weather, local regulations and working condition. Following this list will allow for more efficient production with UltraTEK Wall Spray System™.

Equipment

- Calculate and load the correct amount of UltraTEK Blowing Fiber Glass using the “Material Calculator” tools available from your FiberTEK™ representative.
- Calculate and load the correct amount of FiberTEK 135-09™ adhesive using the “Material Calculator” tools.
- Make sure that water is available on site or load the correct amount of water that will enable finishing the work.

- Check and load the correct hoses. The diameter and length of the supply hoses for dry UltraTEK™ and adhesive are extremely important for the successful application of the UltraTEK Wall Spray System™. Also make sure that a “clean-up” hose is included.

- Be sure to check and load wall scrubber

- The number and amount of baffles, staples, staplers, duct tape and wall webbing will depend on the job. Be sure to take extra just in case.

- Fiberglass Batt and/or foam will be needed for sealing and chinking. Be sure to bring plenty.

- Ladders, stilts and/or stepstools with a fully equipped toolbox and extra parts with plenty of poly sheeting will complete the equipment that you will need.

Clothing

- Be sure to take enough safety gear including MSHA or NIOSH-certified disposable or reusable particulate respirator with an efficiency rating of N95 or higher, such as a 3M model #8210, #8511, #8233, #8271 (in high humidity environments), or equivalent. Gloves, eye protection, long sleeves and a cap.

Site Preparation Work Checklist

Site preparation is crucial to the successful installation of the UltraTEK Wall Spray System™.

- Closely sweep floors of the site of installation. Pay special attention to corners and knock down any spider webs that might catch the material as it's installed.

- Remove all objects and removable fixtures from the framing members such as nails, string, staples, paper and plastic sheeting. Take special care around windows and doors.

- Carefully cover windows and doors with poly sheeting.

- Gaps and holes should be chinked and filled with foam, fiber glass batts or backing rod.

- Apply insulation netting to cavities that are without backing (eg., wall between home and garage, etc..)

- Seal and duct tape openings such as electrical outlets and switch boxes.

UltraTEK Wall Spray System™

Installation Checklist

- Layout dry material hose and adhesive lines to the furthest location in the house making sure not to take excessive amounts into the house. This will ensure a smooth installation as you “back out” of the work areas as they are completed. Remember, do not take the hoses through stud walls.
- Attach approved spray nozzle with approved tips. (See your FiberTEK representative for the latest information). Make sure they are clean so that adhesive flows freely at the correct rate.
- Be sure to place the vacuum hose in a position that does not interfere with the UltraTEK Wall Spray System™ blow hose and adhesive line.
- Layout the power cord through the house to supply wall scrubber in a way that does not interfere with UltraTEK Wall Spray System™ blow hose and adhesive line.
- Start and test the UltraTEK Wall Spray System™ machine for air and liquid flow. Adjust the slide gate and supply valve to the correct pressure settings. These settings will depend on the variables of the job.
- Make sure the vacuum pump is on and that the vacuum hose is correctly connected to the return bin.
- All Machine settings will depend on machine, (See Fiber Handling Systems for recommendations @ 252-903-0042)

Reminders for Installer

- Installer must be wearing approved safety equipment (glasses, dust mask, etc.).
- As a rule of thumb, the end of the nozzle should be 18” to 24” from the wall to achieve an R15 (Of course this depends on air settings and material flow).
- Be sure to stand directly in front of each cavity being sprayed and always maintain the 18” to 24” spacing from the cavity.
- Start spraying at the bottom of the stud with a smooth left to right motion and continue up the cavity with the nozzle remaining at the 18” to 24” from wall cavity.
- Begin the scrubber/vacuum process after the installer has sprayed at least 4 cavities.
- Scrub the wall from top to bottom, the opposite direction from the installer.
- The vacuum person should ensure that the installers work area is clear and that he has ladders, steps and enough hose and liquid line to stay ahead of vacuuming. It is important that the work of spraying is uninterrupted.

UltraTEK™ Equipment Information

Having the right machine is vital to producing quality workmanship using the UltraTEK Wall Spray System™. There are many machines in the market. To get recommendation on machine preferences, set up, retrofit existing machines, or purchasing new equipment see our approved vendor partner:

Contact: Fiber Handling Systems – Clete Kiper 252-903-0042 – cckiper@earthlink.net