

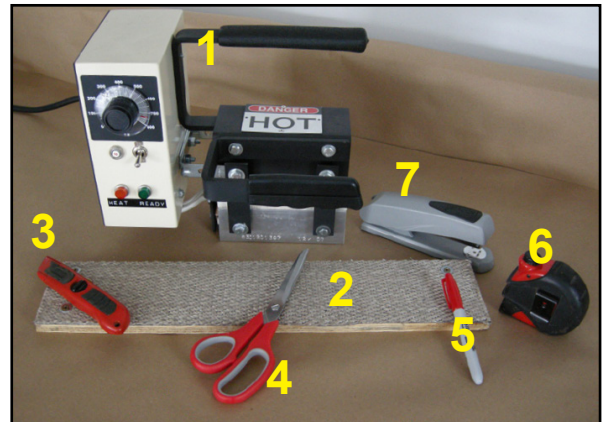
## SINGLE PLY SPLICE INSTRUCTIONS

U.S. Bellows highly recommends that a test splice be performed prior to actual splice.

Thank you for purchasing FLEXXCEL Fabric Expansion Joint material. Prior to performing the actual splice on your expansion joint, please complete a U.S. Bellows ensureAsplice Test Splice. Refer to the U.S. Bellows ensureAsplice Test Splice instructions for details.

### SAFETY PRECAUTIONS

Experience has shown fluoropolymers can be processed and used at elevated temperatures without hazard if proper ventilation is used. Make certain all heat sealing is performed in well ventilated areas. Make certain the heat sealer is safely handled during use. The heat sealer temperature will reach 725°F in normal operation. Special care must be taken with the heat sealer during handling due to the high temperature.



Equipment required to splice FLEXXCEL materials.

1. Heat Seal Iron
2. Backer Board
3. Blade Knife\*
4. Scissors\*
5. Marking Pen\*
6. Tape Measurer\*
7. Stapler\*

\* These items are not included in kit.

### FLEXXCEL HEAT SEAL IRON OPERATION

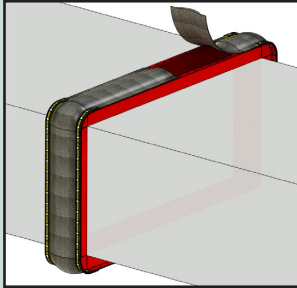
To operate the Heat Seal Iron, follow these instructions

- **Plug** the unit into an electrical outlet.
- **Place** the Heat Seal Iron on the FLEXXCEL Backer Board or another insulated surface.
- **Push** the toggle switch up to the "on" position.
- **Set** the temperature by turning the dial to the desired temperature. A temperature range of 700°-740°F (370°-385°C) is typical for splicing U.S. Bellows FLEXXCEL materials.

The unit contains two lights, a "heat up" light and a "ready" light. The "heat up" light will remain lit until the unit reaches the set temperature, at which point the "ready" light will go on.

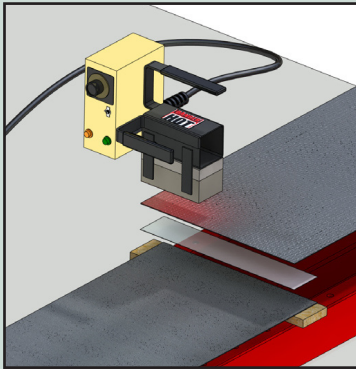
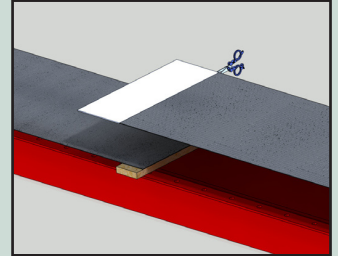
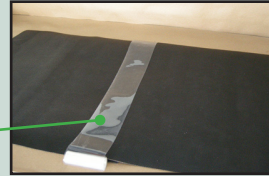


## SINGLE PLY SPLICE INSTRUCTIONS



Install the FlexxCel belt material per the BELT INSTALLATION INSTRUCTIONS. Heat Seal Splice should be performed prior to last back-up-bars being installed.

- Place backer board under belt
- Overlap belt ends
- Mark belt to allow 3" overlap
- Trim excess belt
- Trim PFA Film to proper width
- Staple PFA film between belt plies

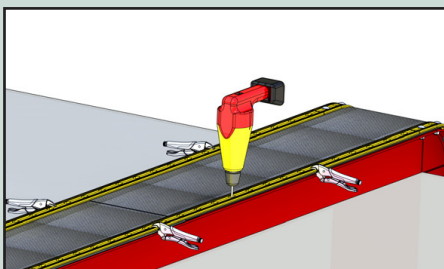
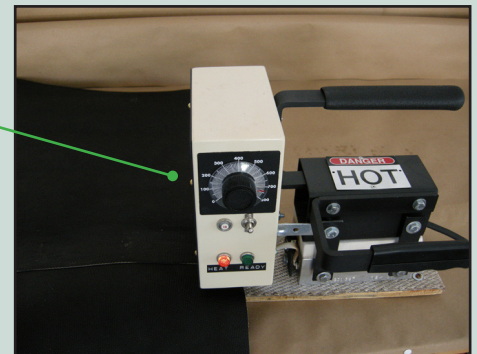
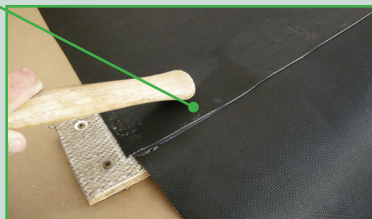


Make sure the heat sealer has reached the temperature of 700°-740°F before using. (GREEN LIGHT ON) Place iron at edge of belt to begin splice. Apply pressure to handles of iron. Leave iron on splice area for 5 minutes.\* Depending on width of belt, it may be necessary to perform multiple splices across the width of the belt. Step iron across width of belt, overlapping each splice 1/2".



After each section of the splice is complete, press/rub the completed spliced area with a wooden block— or the end of a wooden hammer handle. There will be a noticeable change of color on the belt after rubbing. This process will help spread the melted PFA material evenly.

When the heat seal is complete, remove the sealer and place on the backer board to cool. Allow the splice to cool to ambient temperature before further handling the belt.



When entire splice is complete, clamp the back up bars into place and drill remaining holes in the belt. Bolt the back up bars into place. Expansion joint splice and installation is complete.

