



WALLFLEX

ENGINEERED INSTALLATION SYSTEM

QUICK REFERENCE GUIDE

Type of wall surface suitable:	Smooth cement render Hardwall plaster Plaster board Fibrous cement sheet Hardboard sheet Plywood Steel or aluminium sheeting
Installation system:	Full spread, heat-welded seams
Adhesives:	SV-100 S-2K
Trowel Size:	SV-100 0.8mm x 0.8mm x 1.5mm notches (Armstrong S891 fine notched steel trowel) S-2K Contact (brush or roller)
Recommendations:	Allow room and material to acclimitise to room temperature (18°C). After application, apply pressure with a hand roller to expel air bubbles. Use S-2K Contact Adhesive on non-porous surfaces. Installation is ideally suited to two installers.
Weld Rod:	Use matching weld rod as per colour chart

INSTALLATION INSTRUCTIONS

TO THE INSTALLER:

Please note that if material has been cut, fitted or installed, NO ADJUSTMENTS or CLAIMS (if any) will be considered due to the failure to comply with any of the following. Before cutting and installing Armstrong wall coverings make sure that you:

1. Check for obvious manufacturing defects in good daylight conditions.
2. Check that the material is the correct colour, pattern and quantity ordered by the customer.
3. Material should be allowed to relax in a flat form to allow it to acclimatise to job climatic conditions. Roll out flat and stack up to ten sheets for 24 hours at 18°C. Never install the material if the temperature in the room is less than 15°C as per Australian Standard AS 1884-1985 Section 3 – 1.
4. Use only Armstrong recommended adhesive specifically formulated for each Armstrong product.
5. All rolls of Armstrong products are marked with a 'batch number'. When using more than one roll make sure the rolls have the same 'batch number'.
6. After cutting material off the roll, step back and inspect the overall effect. If acceptable, then go ahead and adhere, but if there seems to be a problem or doubt of any kind then stop immediately and call the distributor or Armstrong Customer Service on 1800 632 624.
7. Do not cut or install any damaged or defective material unless accepted, agreed and approved by all parties concerned.

WALL SURFACE PREPARATION

Wallflex is a flexible homogeneous sheet vinyl wall covering. The colour extends throughout the entire thickness of the material, providing a very durable surface.

JOB SITE CONDITIONS

Temperatures in areas where Wallflex will be applied should be maintained at a minimum of 15°C for 48 hours prior, during and 48 hours after installation. Please note that cold walls have considerable influence on the open time of the adhesive used to install Wallflex.

SOLID CONSTRUCTION WALLS

Smooth cement rendered walls and hardwall plastered surfaces come under this category. Walls must be dry, clean and smooth and finished off with a steel trowel. Whilst walls are not subject to hydrostatic pressure, they can be damp, thus, before commencing the installation ensure the walls are completely dry. This may take some time as the internal brickwork has to dry out as well.

Cement rendered walls finished with a steel trowel should be smooth enough for Wallflex installation. If cracks and holes exist, they should be leveled with a trowel-on underlayment.

FRAMED CONSTRUCTION

The following materials fall into this category:

- Gyprock Plaster Board
- Fibrous Cement Sheet
- Hardboard Sheet
- Plywood
- Steel or Aluminium Sheeting

All framed walls must be well supported and stable.

Nail heads, staples or other fasteners must be flush to the surface of the wall finish. Gaps, holes and uneven thickness of boards must be filled and leveled with patching compound.

Painted walls should be sanded and any loose paint scraped off.

WEDGE FILLET

When installing Wallflex to join coved vinyl floorcoverings, the Armstrong Wedge Fillet should be installed to provide a smooth, hygienically welded joint.

INSTALLATION TECHNIQUES

1. If installing Wallflex to a height of less than 1.50 metres, lengths should be laid horizontally.
2. Mark out a horizontal reference line along the wall at a height slightly lower than the width of the Wallflex from the floor or from the end of the coved flooring. This is to allow for trimming any unevenness of subfloor.
NOTE: Allowances must be made to the horizontal reference line to cover the rake of the corners.
3. Do not install vertical seams in the wall corner – these are never straight and very difficult to weld. They are best placed 75mm – 100mm from the corner, obviously on the less visible angle.
4. Add 50mm to required length and cut Wallflex. This will allow for overlap at both ends. Remove factory edge if damaged or contaminated.
5. Mark the centre of the length and the corresponding centre of the wall.
6. When placing the Wallflex in position, make sure the factory edge matches the horizontal reference line of the wall and the corresponding centre marks. Then work toward each end.
NOTE: Armstrong Wall Capping Strip should be applied to cover any differences due to the rake of the corners.
7. The same method is used if Wallflex is installed vertically, but use a plumb line to give the first vertical starting line.
8. A band of approximately 100mm to 150mm of S-2K adhesive is applied below the horizontal line. Apply SV-100 to the remaining area. The band of S-2K is to prevent the sheets from slipping down because of the weight of the Wallflex.
9. If Wallflex is applied up to the ceiling height then the band of S-2K should be applied at the top.
10. S-2K is recommended at external corners. SV-100 is recommended at internal corners.
11. When applying Wallflex on the ceiling the S-2K is applied to the entire surface of the ceiling.

ADHESIVE

To ensure that the installation is successful, Armstrong SV-100 and/or S-2K must be used.

SV-100 is spread with a fine notched steel trowel, with 0.80mm x 0.80mm notches. The SV-100 adhesive must be allowed to 'tack-off' prior to the material being rolled back into it. Depending upon climatic conditions this may vary from 20 to 40 minutes.

S-2K is specially formulated contact adhesive that has a high plasticiser migration resistance. S-2K should be applied to both corresponding surfaces, wall and back of material.

For non-porous surfaces apply a thin coat of S-2K by brush or paint roller to both the wall and the back of the material. Adhesive must be allowed to 'touch dry' before joining coated surfaces together.

When placed in position, apply pressure with a hand roller.

SEAMS

One of the many advantages of Wallflex is the fact that it can be seam-welded to give a jointless, dust-free, water-tight wall treatment. Grooving and welding should not be carried out until adhesive has completely set (usually 24 hours after sheet installation as moisture from adhesive can interfere with the heat welding process). If using S-2K under seam areas heat welding can proceed immediately.

Heat Welding

- All factory edges should be removed, using the Armstrong S-33 edge trimmer during installation.
- Scribe seams using Armstrong S-83 recess scriber set to provide a gap of 0.5mm. Cut on scribe line and roll cut edge into adhesive using hand roller.
- Heat welding should only be done when adhesive is completely cured (24 hours).
- Rout or groove the seam in a 'V' or 'U' shape to a minimum of $\frac{3}{4}$ of the material depth using a grooving machine or hand groover with a sharp blade against a straight edge, so that both sides of the seam are grooved equally and uniformly.
- For best results and to reduce damage to the surface **use an Armstrong S-65 speed nozzle**.
- Set temperature setting on the hot air welder, fitted with an **S-65 speed nozzle**, to deliver enough heat to fuse weld rod to sheet. Amperage of electrical supply, length of extension cord and wire size will affect the temperature setting. As a guide, a Leister weld gun fitted with an **S-65 speed nozzle** should be set to heat setting of around 7. Practice on a piece of scrap material until correct setting is achieved.
- Insert weld rod into the **S-65 speed nozzle** and immediately insert the rod into the groove.
- Hold the gun at the proper angle so that the tip of the S-65 speed nozzle is parallel with the material. A good weld will result when the rod just starts to flair, and no more, on each side of the seam. If the rod flairs excessively you are going too slow, the **Armstrong** weld rod should ultimately fall apart before scorching the material if the heat setting is correct.
- To change directions in welding, shave off excess welding rod and groove the end of the rod for approximately 20mm. Start welding from the opposite direction and continue welding until you overlap the initial grooved weld rod and continue for another 20mm before lifting weld off.
- Allow weld rod to completely cool before skiving (trimming).
- Once weld rod is cooled off, skive off in two passes. The first pass using a quarter moon (spatula) knife with a trim plate. The second pass should be flush with the material. Too much weld rod flair or an uneven seam will result in the top surface of the material being removed exposing the material backing.

WARRANTY

Product:

Armstrong warrants its regular (first quality) products to be free from manufacturing defects for five (5) years from the date of purchase. This warranty is extendable to **ten (10) years** should the recommended Armstrong engineered installation system be followed.

Installation:

Armstrong warrants the installation integrity of these products for **ten (10) years** from the date of purchase. Installation integrity means that the products are installed according to Armstrong's expressed written recommendations using the Armstrong engineered installation system.

NOTE: Vinyl flooring manufactured in Australia after January 1, 1984, **DOES NOT** contain asbestos. However, regulations, codes and directives as to the best method of handling asbestos do exist and it is the obligation of the installer to ensure that practices used are safe, without risk to health, and meet all legal requirements.

**ALL ARMSTRONG WORLD INDUSTRIES (AUSTRALIA) PTY LTD
FLOORCOVERINGS, WALLCOVERINGS, ADHESIVES & ACCESSORIES ARE
MANUFACTURED ASBESTOS FREE**



Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverous existing resilient floor or wallcovering, backing, lining felt or asphaltic 'cut-back' adhesives.

These products may contain either **asbestos fibres** or **crystalline silica**.

Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard.

Smoking by individuals exposed to asbestos fibres greatly increases the risk of serious bodily harm.

Unless positively certain that the product to be removed is a non-asbestos containing material, you must presume it contain asbestos. Regulations may require that the material be tested to determine asbestos content.

Note: Vinyl floor and wallcoverings manufactured by Armstrong World Industries (Australia) Pty. Ltd. after January 1, 1984 **do not** contain asbestos.

Disclaimer – Asbestos Issues

The warnings and guidance contained in these instructions in relation to the potential for asbestos in floor and wallcovering materials are given in good faith. However, regulations, codes and directives as to the best method of handling asbestos are under continual revision. It is the obligation of the installer to ensure that practices used are safe, without risk to health, and meet all legal requirements.

Armstrong World Industries (Australia) Pty. Ltd. accepts no liability for any loss, costs, expense or injury, however incurred, arising from the presence of any asbestos in any floor or wallcovering materials or asphaltic 'cut-back' adhesives and/or any reliance placed upon the procedures and recommended practices contained in these instructions.

Initial Care:

1. Allow adhesive about 48 hours to dry.
2. Clean surface with a good quality neutral cleaner (Armstrong ONCE N' DONE).

Ongoing Care:

Clean surface with a good quality neutral cleaner (Armstrong ONCE N' DONE).

NOTE: Frequency of function depends on environmental conditions and customer requirements.

**For further Armstrong information
Freecall 1800 632 624
www.armstrong-aust.com.au**