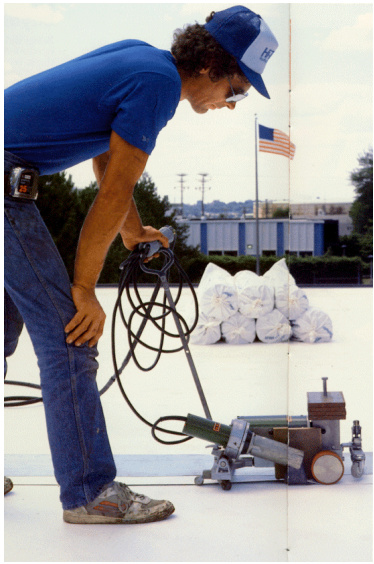


Enter CSPE

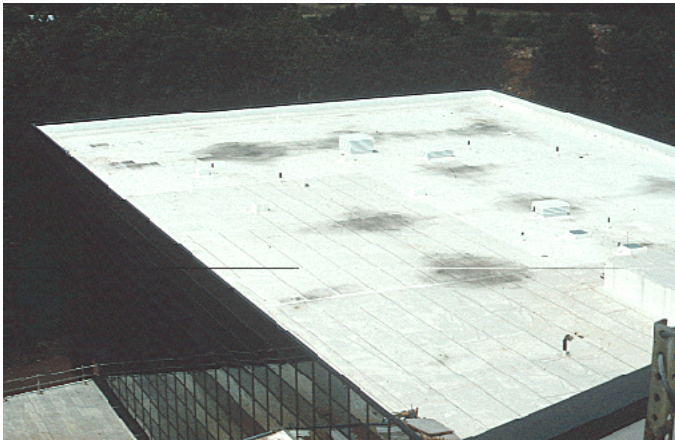
- Chlorosulphonated Polyethylene (aka Hypalon) came to the rescue for roofs exposed to atmospheric pollution.
- Like EPDM, joints in it could be solvent welded
- Like PVC, joints in it could be heat welded
- Unlike both, it had to be reinforced with a fiberglass mesh (scrim) to prevent tearing.



Heat welding
seams



Not a good day to be a roofer.



What's wrong with this picture?



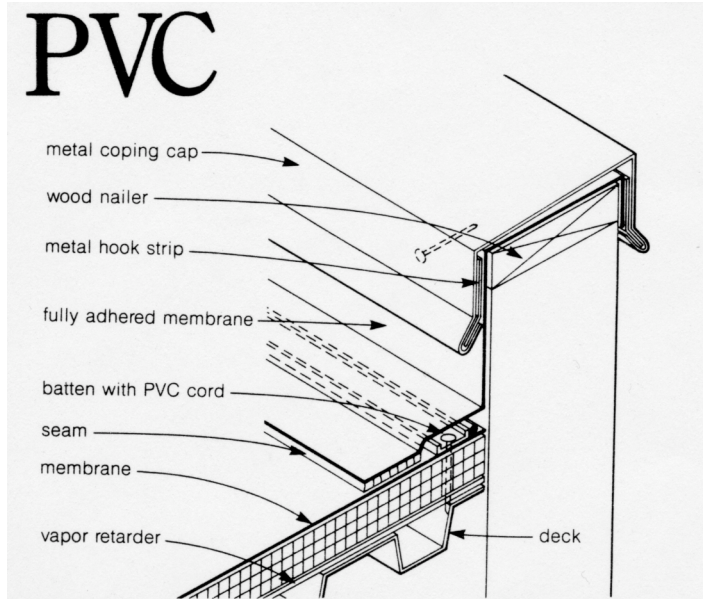
What's wrong with *this* picture?

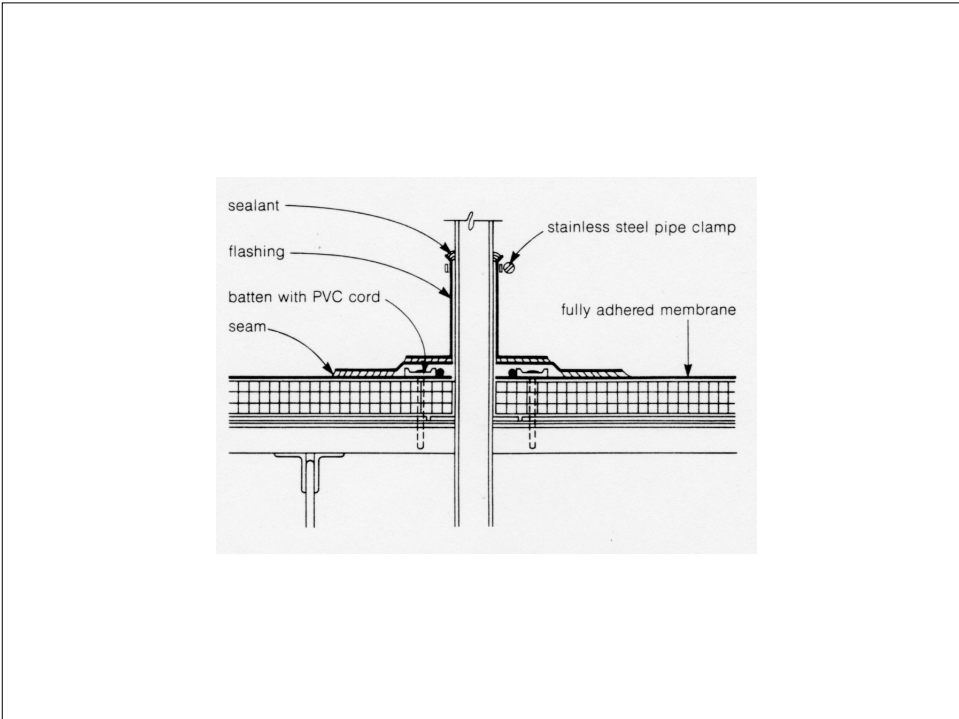
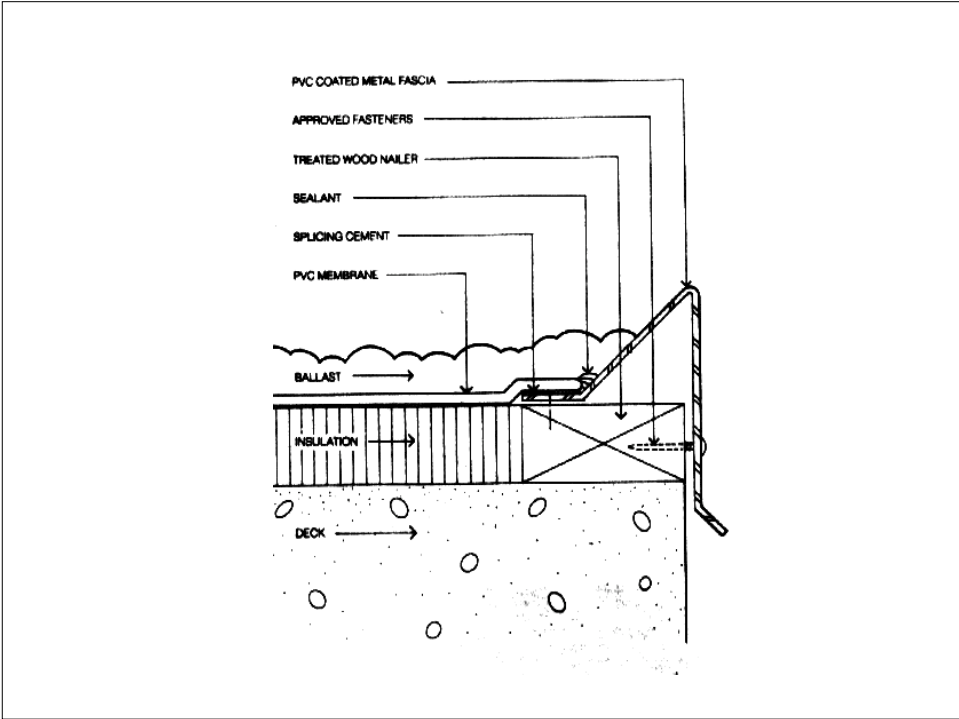


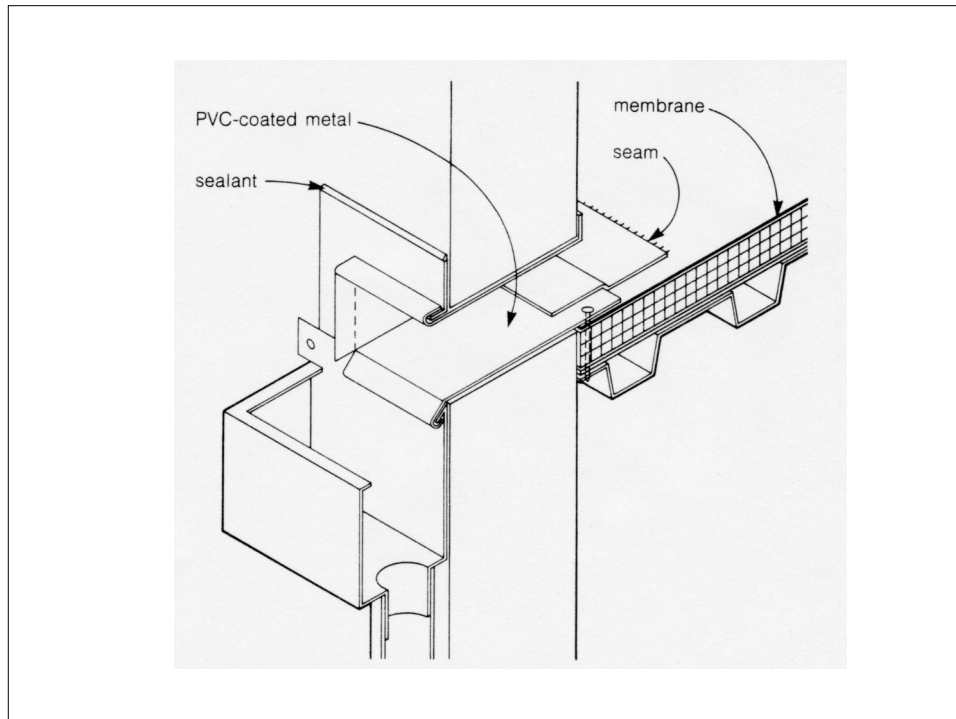
Flamethrower not included



PVC







The landscape of low slope roofing today

- BUR
- PVC
- EPDM
- CSPE
- Spray applied membranes
- Modified Bitumen's

Most common low-slope

B.U.R	Built-up Roof	\$204/square
Modified Bitumen		\$190/square
E.P.D.M	Ethylene Propylene Diene Monomer	\$173/square – adhered \$127/square - fastened \$121/square – ballasted
P.V.C.	Polyvinyl Chloride	\$200/square – adhered \$147/square - fastened \$140/square – ballasted
C.S.P.E.	Chlorosulfonated Polyethylene - Hypalon	\$208/square – adhered \$192/square - fastened \$180/square – ballasted

*R.S. Means 2003

Modified Bitumen...(cleaner bitumen?)

- The single-ply's took a significant percentage of the market share BUR used to hold.
- The BUR industry's response was to develop it's own single ply membrane. The modified bitumen membrane is a thick layer of a highly plasticized bitumen, often reinforced with a polyester grid (scrim)

Modified Bitumen

- The modified bitumen membrane came in 48" wide rolls so it has more joints than many of the other single ply's.
- But the modified bitumen system is joined at the overlap by heating with an open flame, then rolling the softened membrane to seal the joint.



- flamethrower

- Compatibility with BUR.
 - Projects requiring additions be connected to existing BUR's in good condition are prime contenders for modified bitumen membranes – they come from the same materials family
 - Many modified bitumen membranes are available with a granular aggregate (like roof shingles) embedded in the surface. This makes color available (white really cuts A/C costs!) and provides some UV protection and some protection from physical abrasion

Mod. Bit. advantages





