



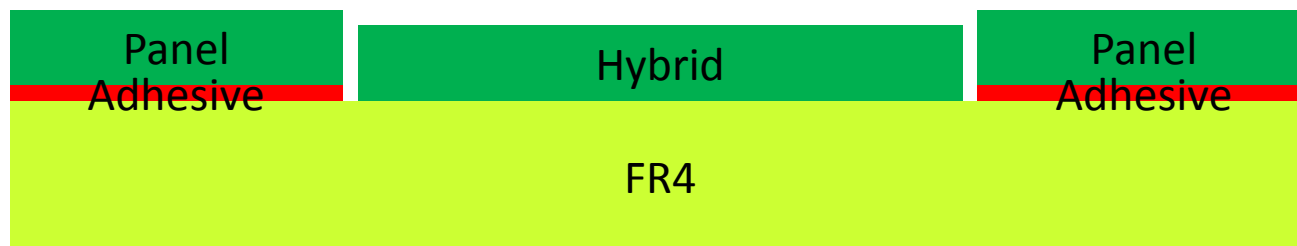
# Tool settings for module building

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Settings for building hybrids with 'ABC130 HCC V1.0' hybrids and ABC130 ASICs

- ASIC height:  $(300 \pm 10)\mu\text{m}$
- Target glue height:  $(80 \pm 5)\mu\text{m}$
- Height difference between Pickup-tool landing pads and ASIC pads:  $50\mu\text{m} / 60\mu\text{m}$





Glueing ASICs to the hybrid:

- pick ASICs up with tool
- apply glue to backside of ASICS (stencil 120 $\mu$ m thick)
- Place tool on hybrid

Need to set the micrometre screws so that the target glue height is reached:

- Target glue height: 80 $\mu$ m
- ASIC height: 300 $\mu$ m
- => height difference between ASIC pickup tool and ASIC pads on hybrid: 380 $\mu$ m
- Subtract 50 $\mu$ m height difference due to panel building: set screw to 330 $\mu$ m height difference

