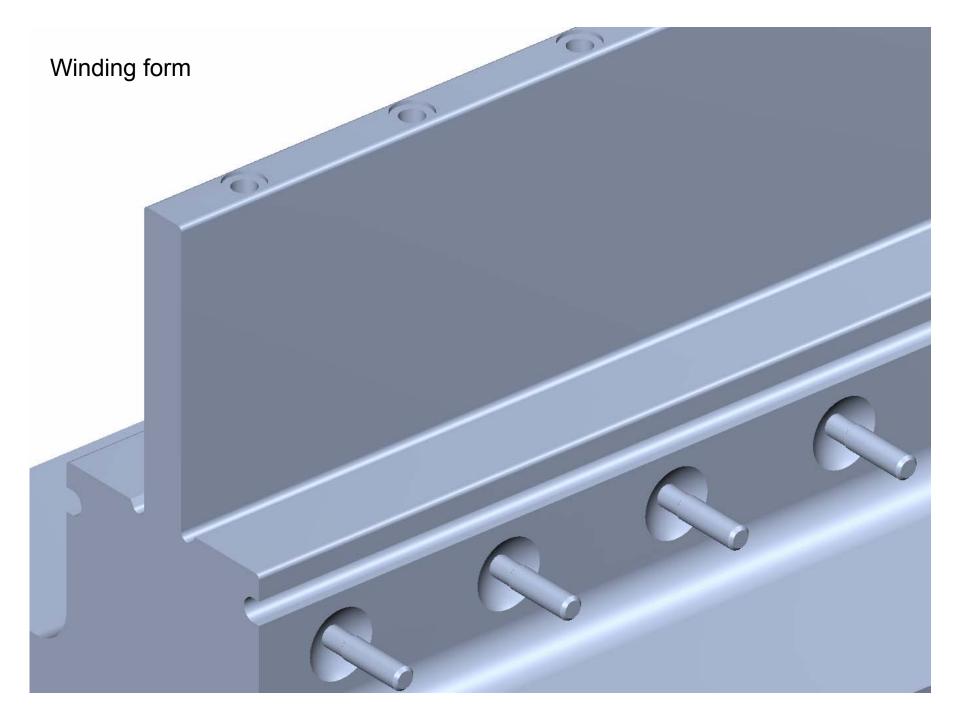
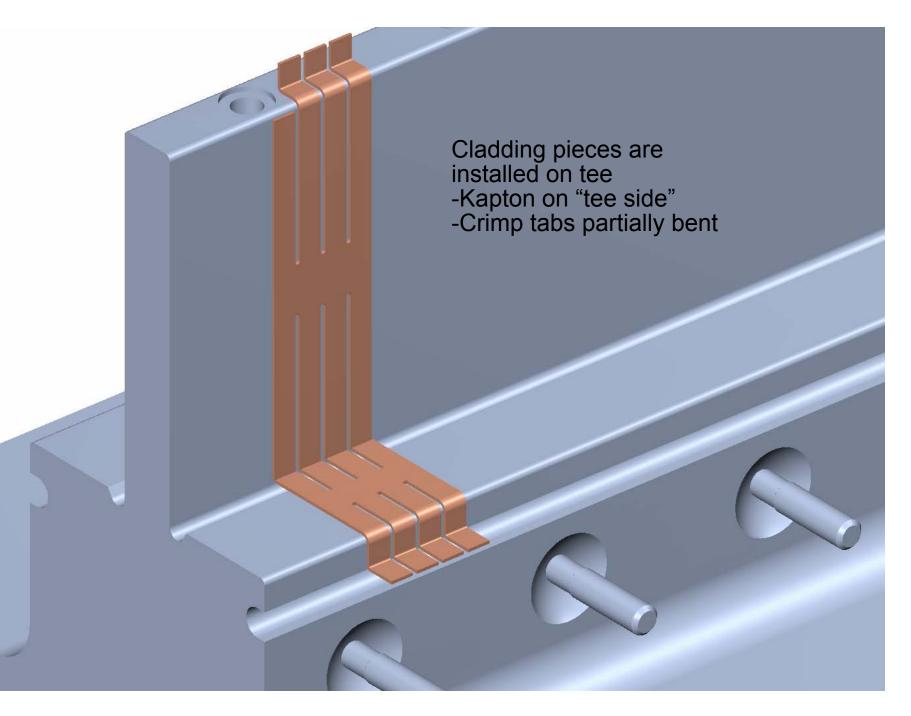
## Cladding / winding sequence

- Workshop held at PPPL June 10,11
- Results of workshop incorporated into design
  - "crimped" design instead of rivets
  - "fringe" pre-brazed to tubing, attached to chill plates, held on with clamps and french toast during VPI, imbedded in winding pack after VPI
  - Chill plate electrical break via b-stage layer
- Variation of cladding proposed

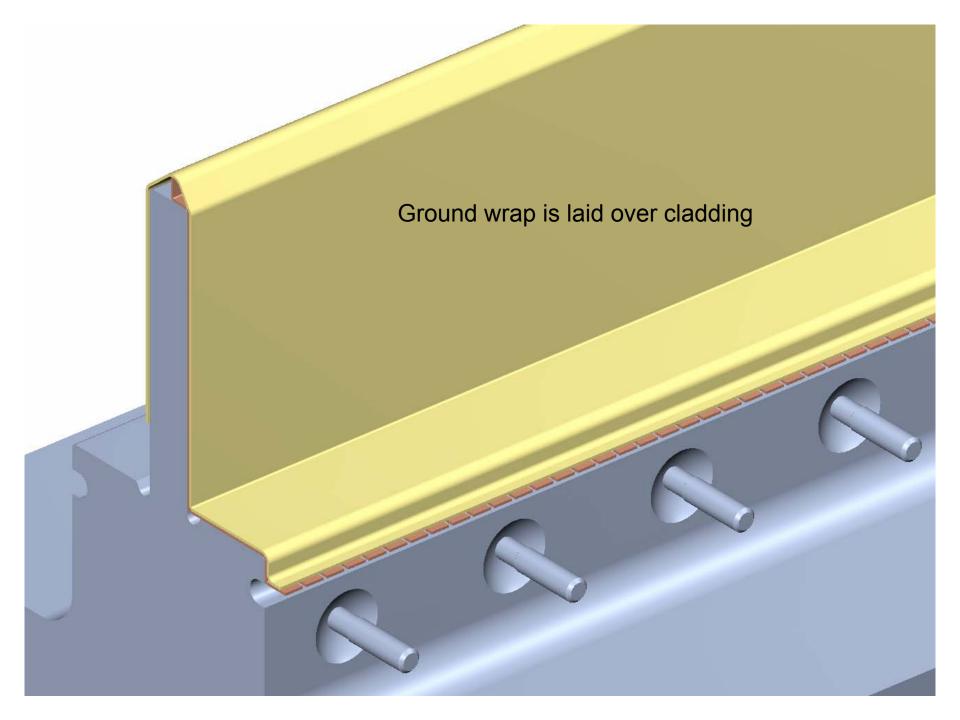


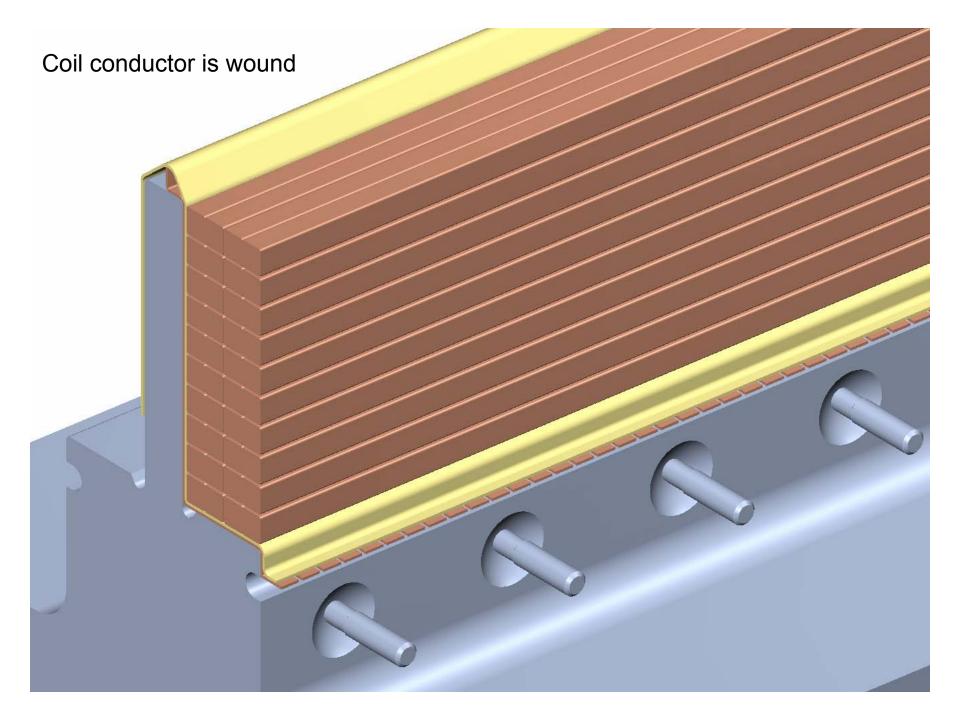


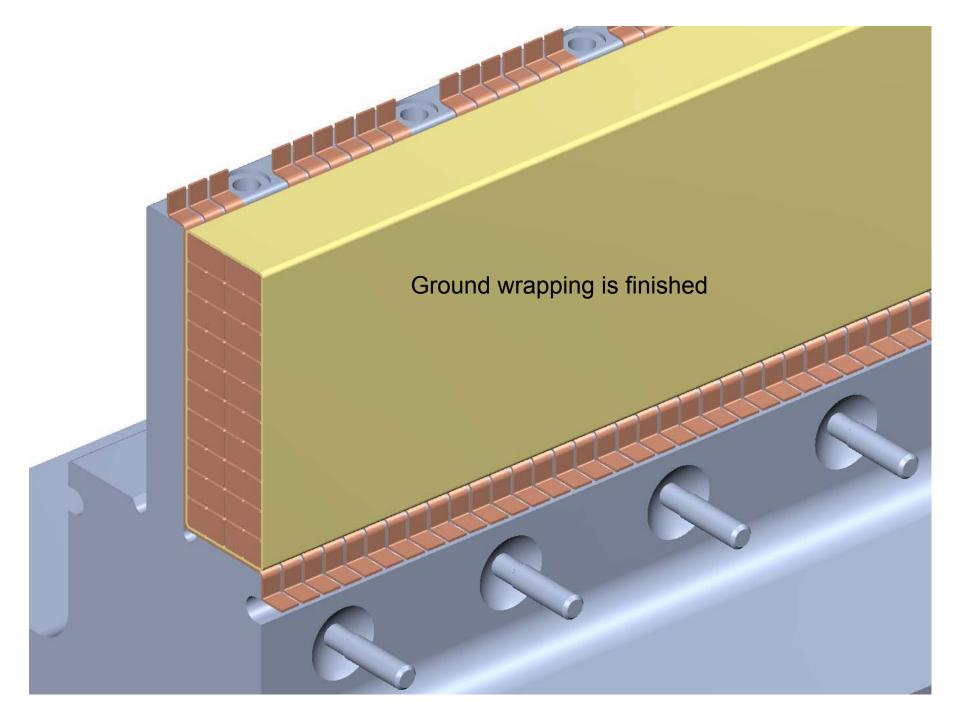
All inner cladding pieces are secured to the winding Form with adhesive

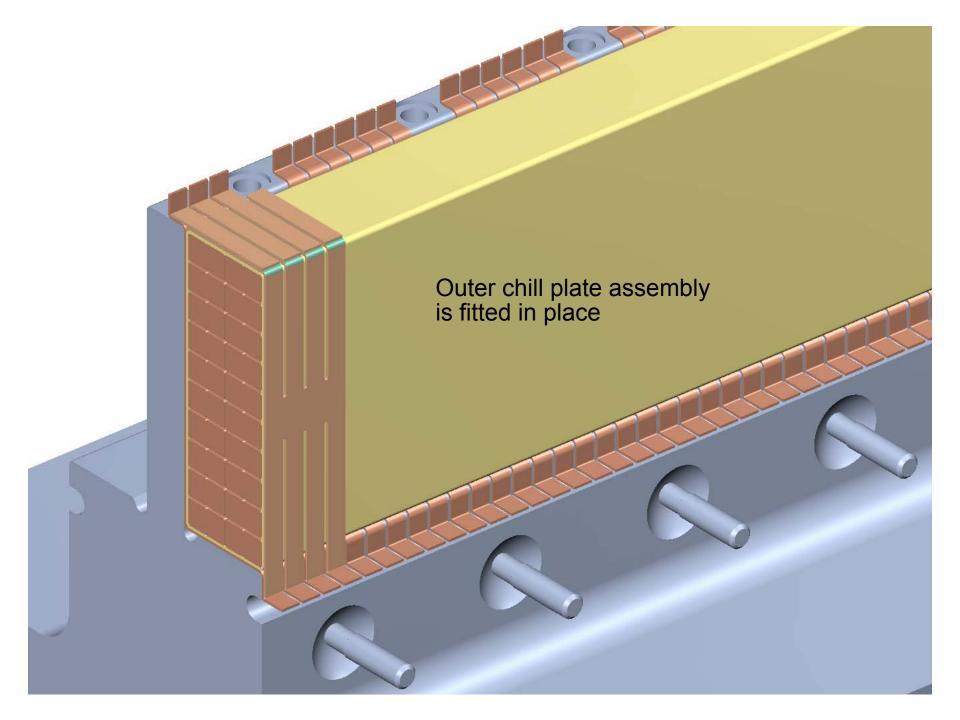
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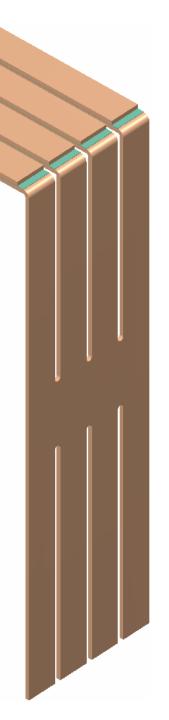


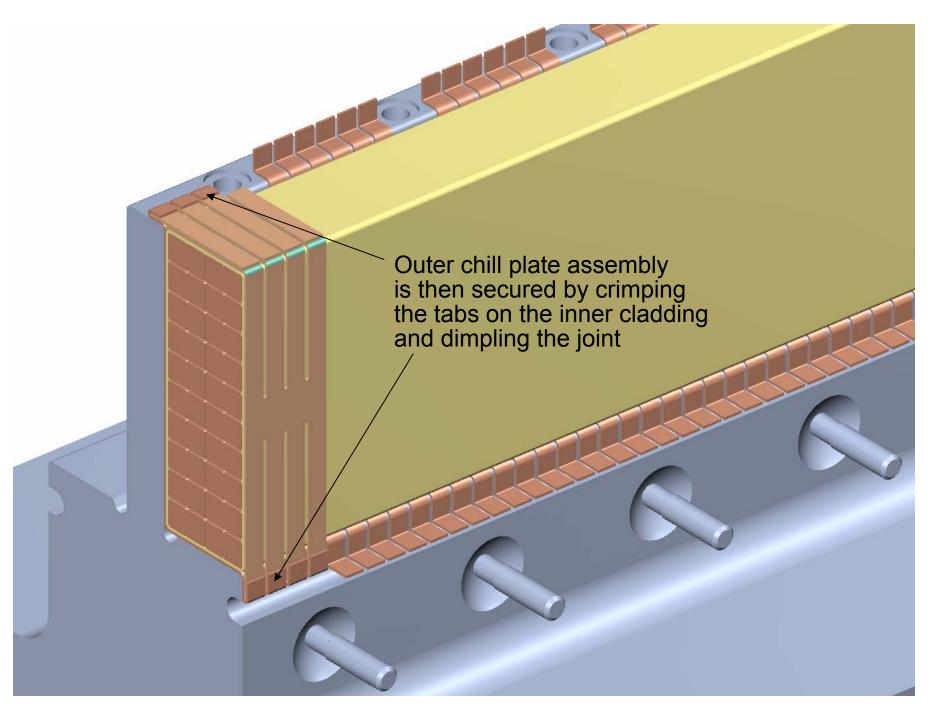


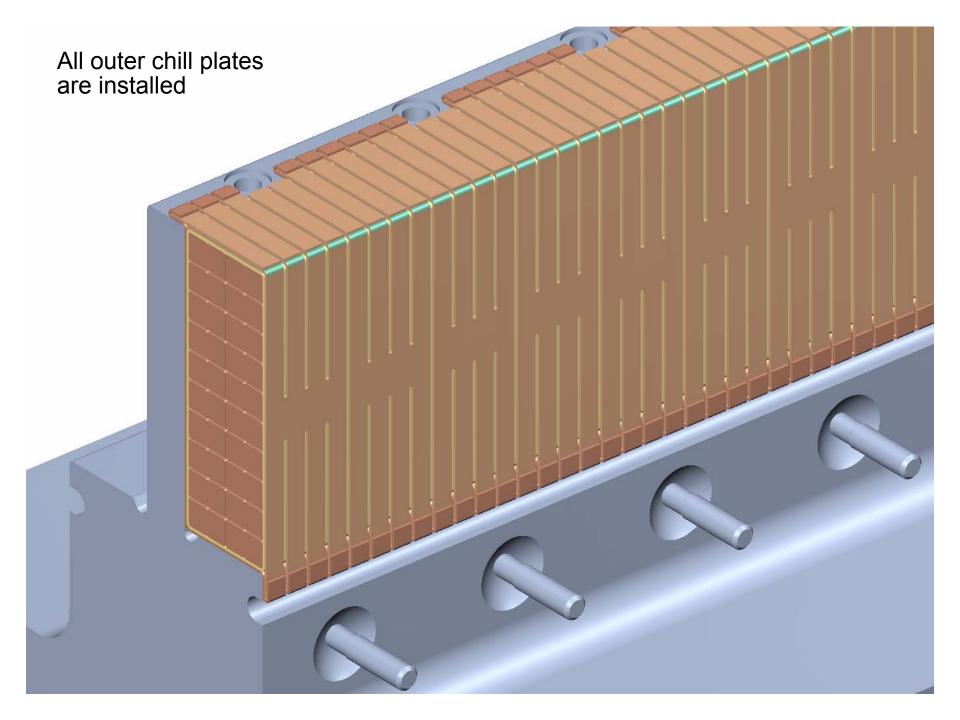
Electrical break

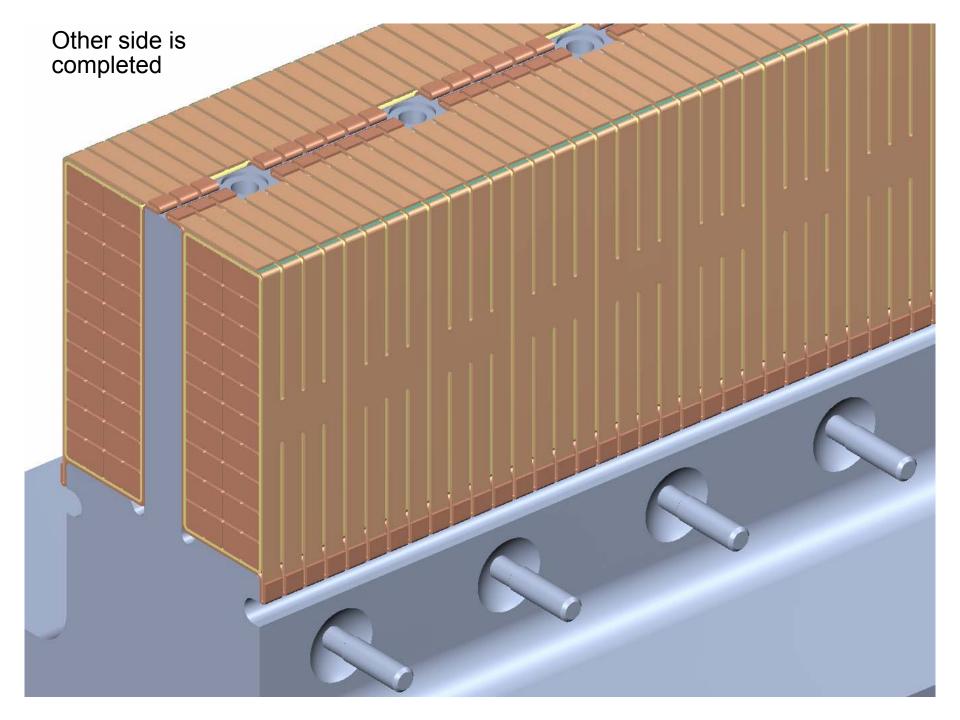
Outer chill plate assembly is shown in an exploded view.

Components are first bonded together, then the slots are cut and preliminary bend is made.









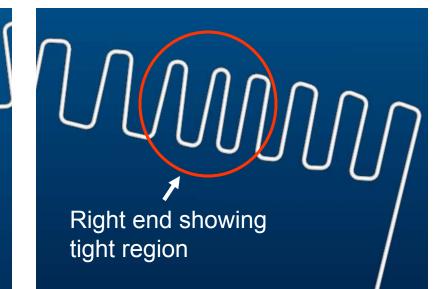
## Coolant tubing is furnace brazed or welded to the fringe strips.

The locations where the clamps are to be placed, the tubes are not attached to the strips.

Coolant tubing assembly is fitted to chill plates and secured with adhesive •Tube and chill plate layout for one side of twisted racetrack

•Flat development made of tube in circled region





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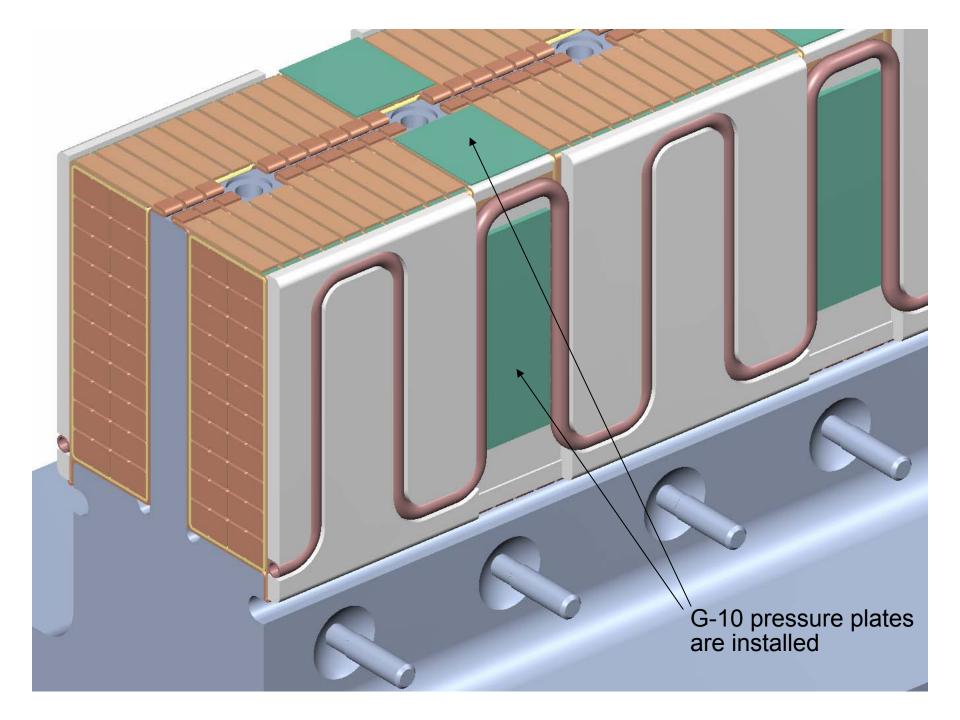
Developed shape of cooling tube for twisted racetrack,

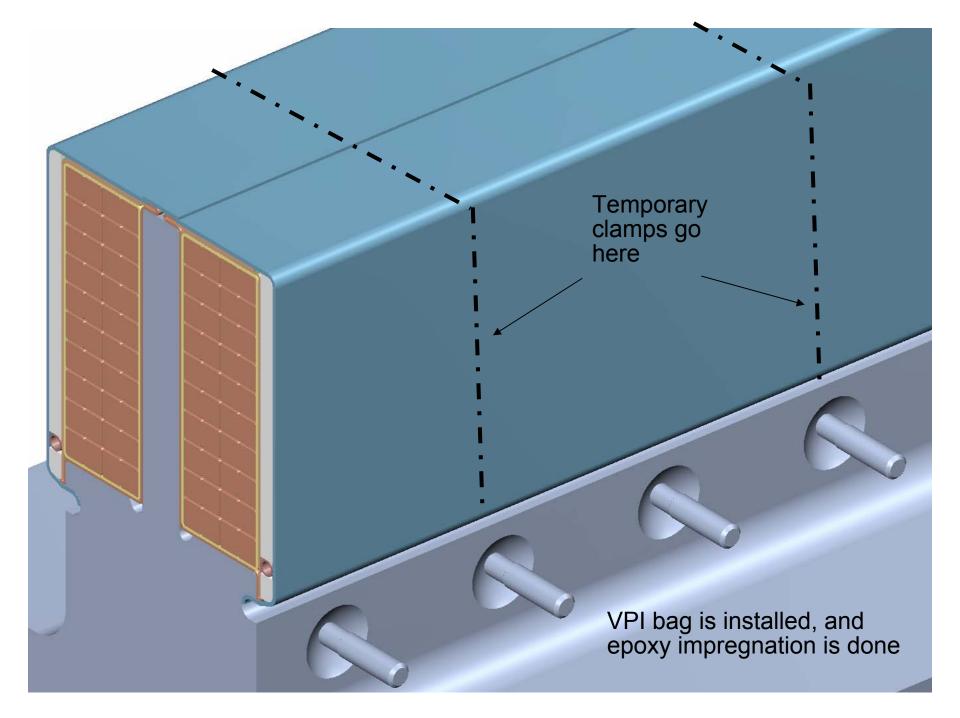
(one half of one winding pack)

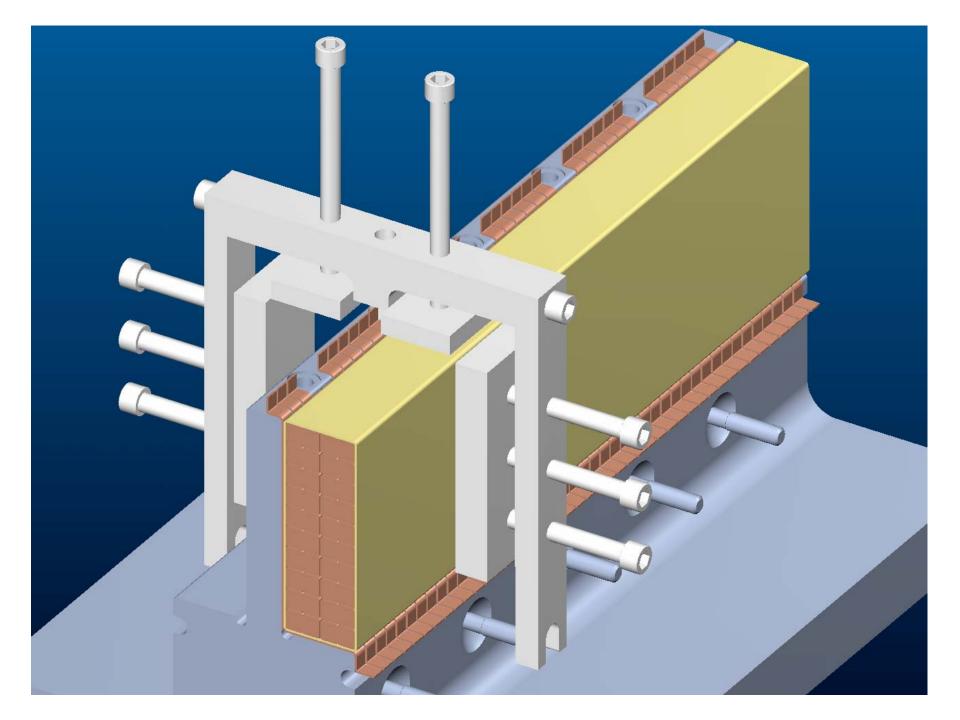
FRONT

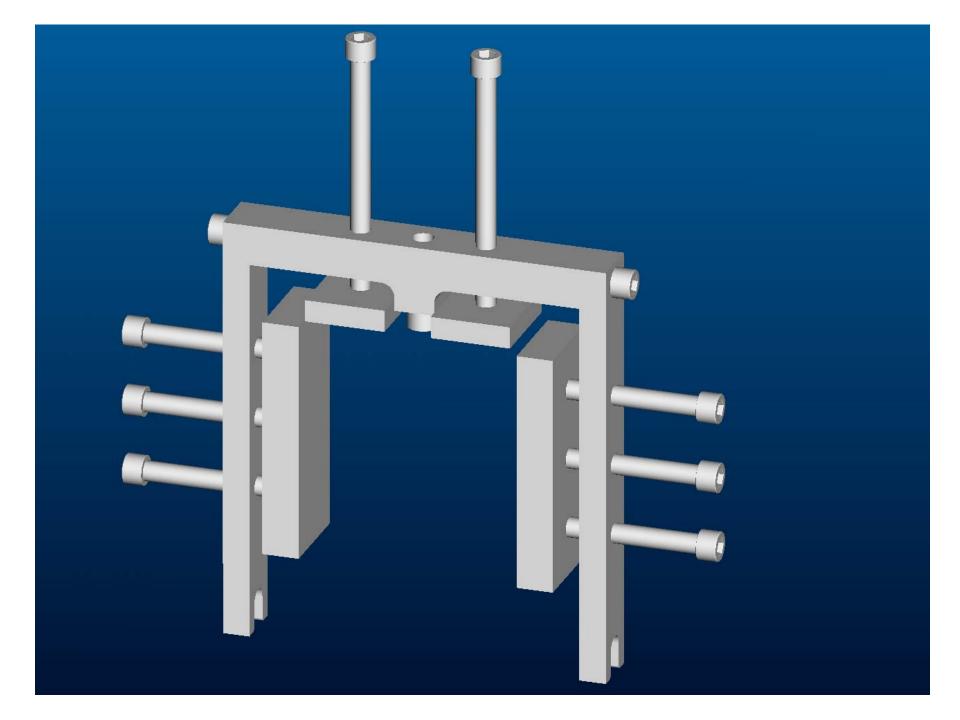
Glass cloth is laid over chill plates in clamp areas

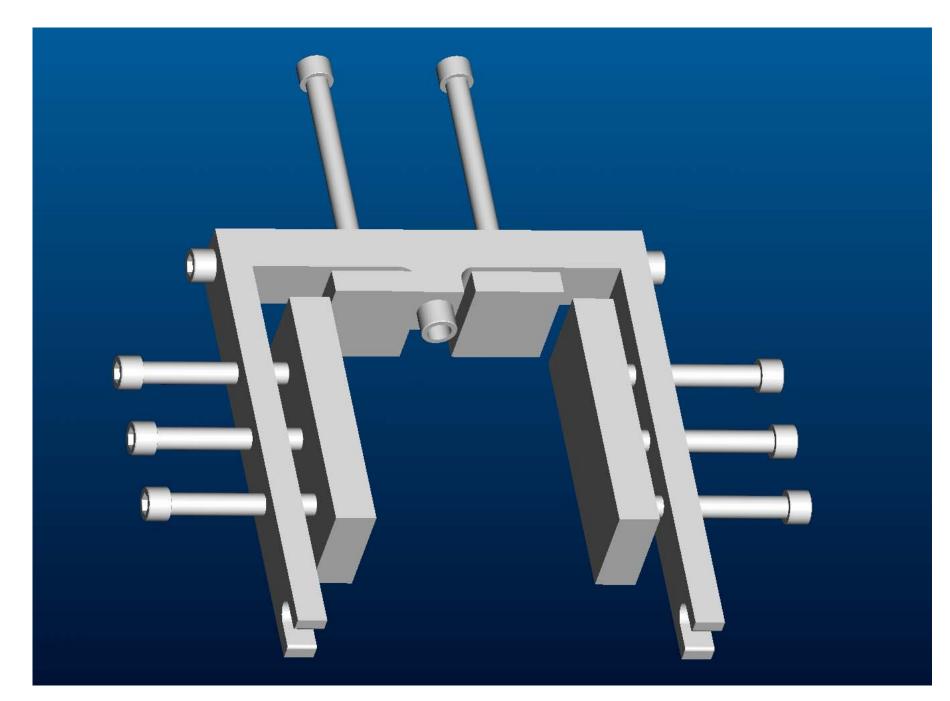
-"Batting" is stuffed in between tubing -Layer of glass cloth laid over tubes and batting (not shown)



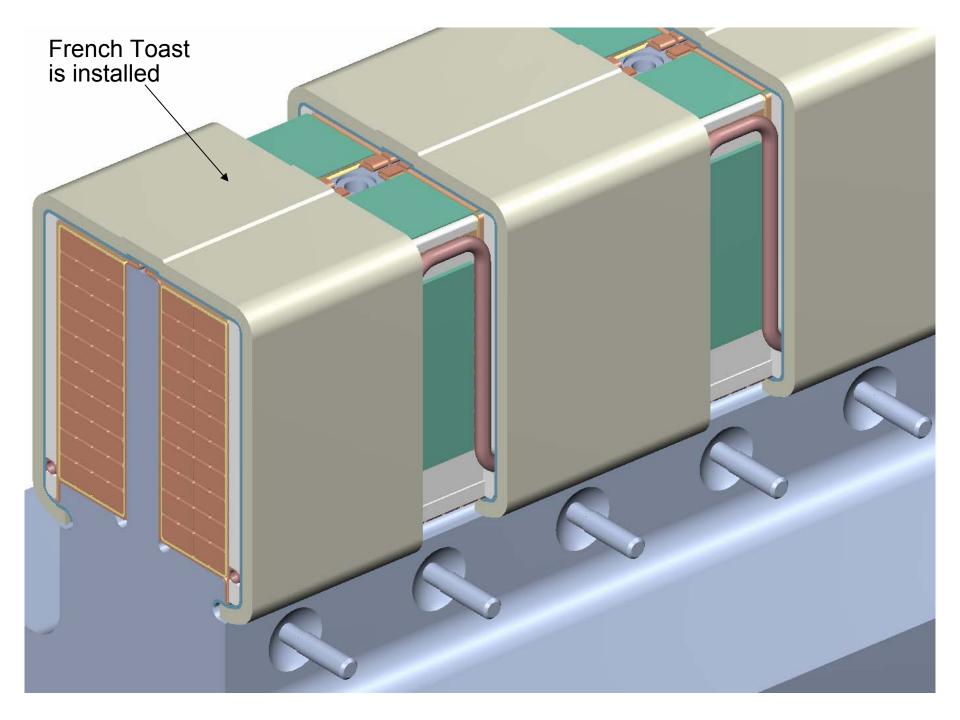


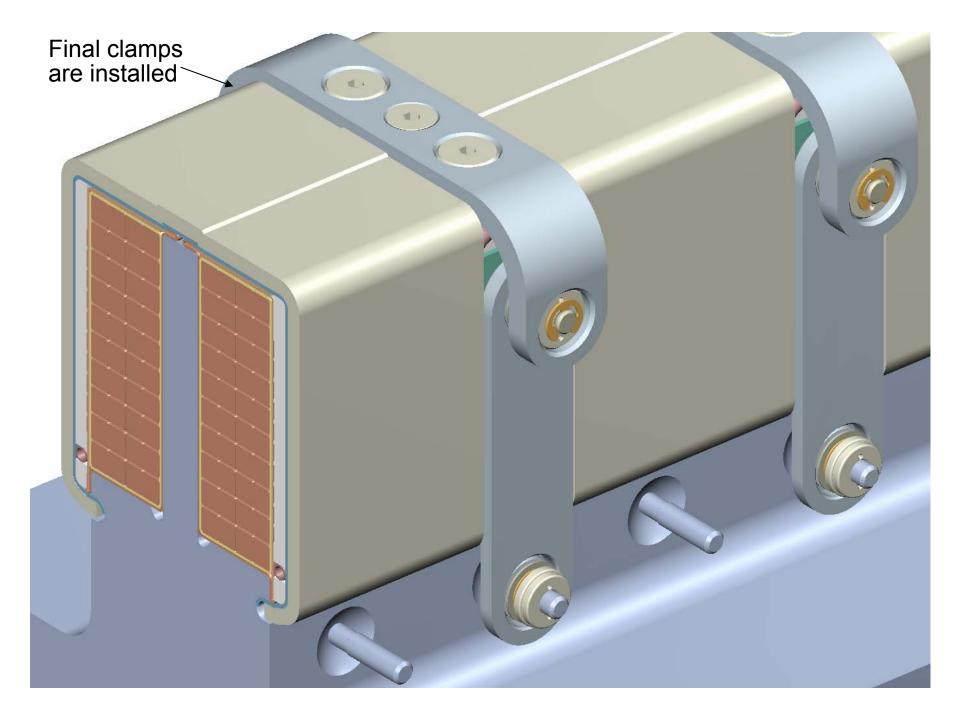




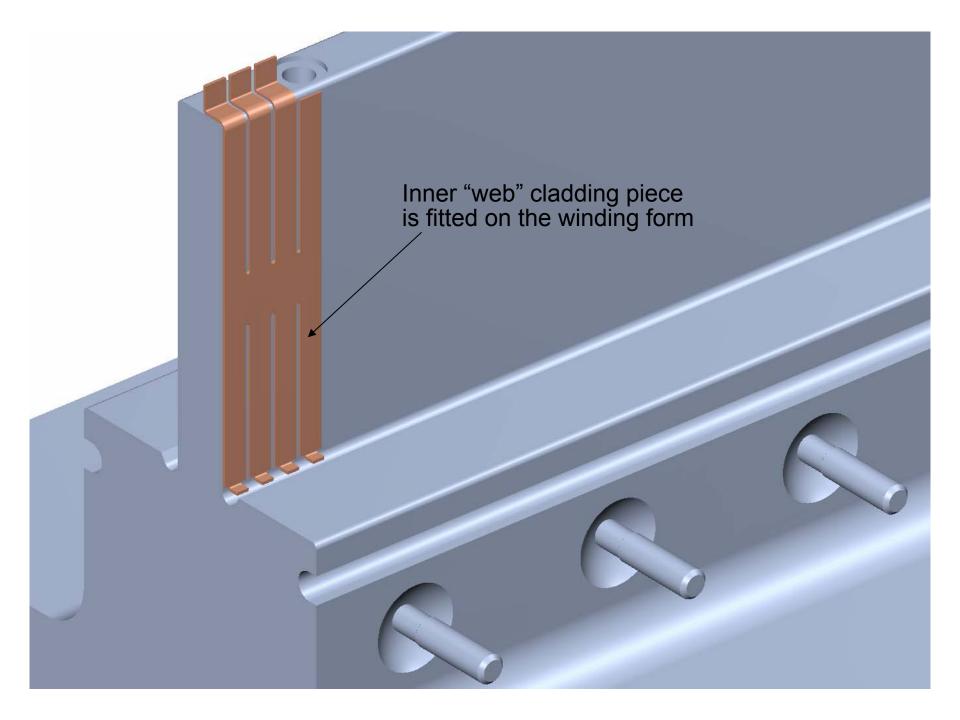


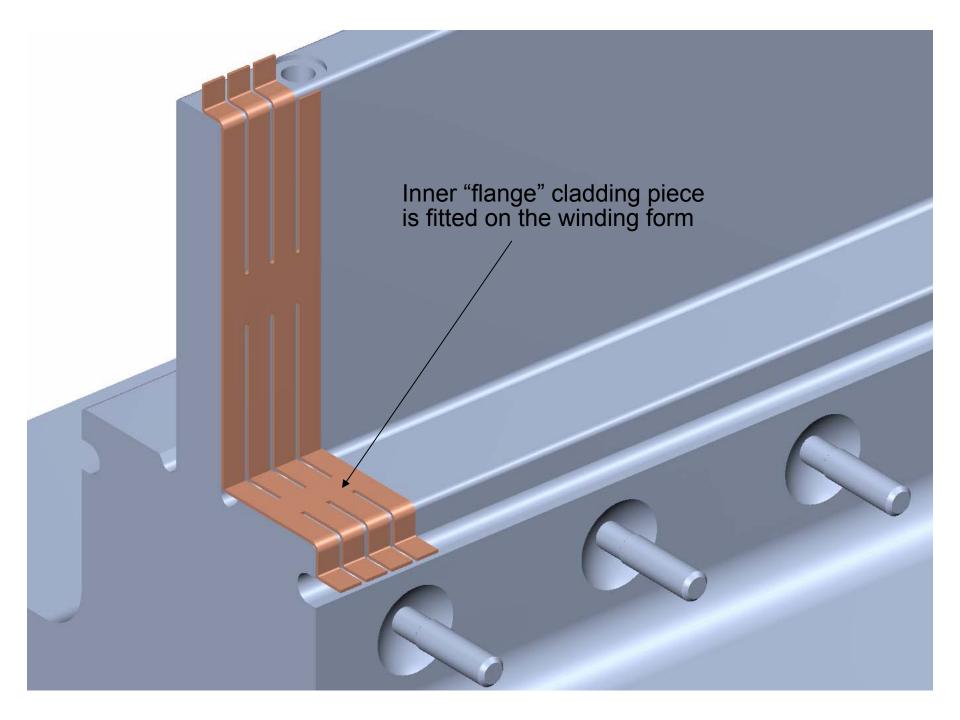
After epoxy impregnation, the bag is cut and peeled away at clamp locations





## Alternate cladding





Inner web and flange cladding pieces are clamped together and removed for brazing / welding away from the winding form

