

b) PHYSICAL PROTOTYPES ARE ALWAYS REQUIRED FOR TESTING AND PERFORMANCE CHECKS AS WELL AS ~~APPEAR~~ APPEARANCE DEPENDING ON IF COMPONENT NEEDS TO BE AESTHETICALLY APPEALING. TESTING IS ALWAYS REQUIRED TO ALLOW CROSS CHECKS WITH DESIGN MAKE SURE MISTAKES HAVEN'T BEEN MADE TO GIVE CUSTOMER AND CONSUMER CONFIDENCE.

c) CORRELATION IS ALWAYS NEEDED TO CHECK

- STRESS AND STRAIN RESULTS COMPARE
- CAN THE SPECIMAN LAST THE NUMBER OF USE CYCLES THE MODEL HAS SAID THEORETICALLY
- HOW DOES TEMPERATURE AFFECT SPECIMENS BEHAVIOUR

FROM THESE CORRELATION RESULTS BETWEEN FEA ACTUAL WE ARE LOOKING FOR GOOD CORRELATION NO. MORE THAN 15%.

AND IF OUTSIDE 15% THE PROBLE CAUSE ARE THINGS SUCH AS BOUNDARY CONDITIONS MATERIAL PROPERTIES, RESIDUAL STRESSES I.E WELDING, BOLTING ~~ARE~~ ALSO EXPERIMENTAL ERROR