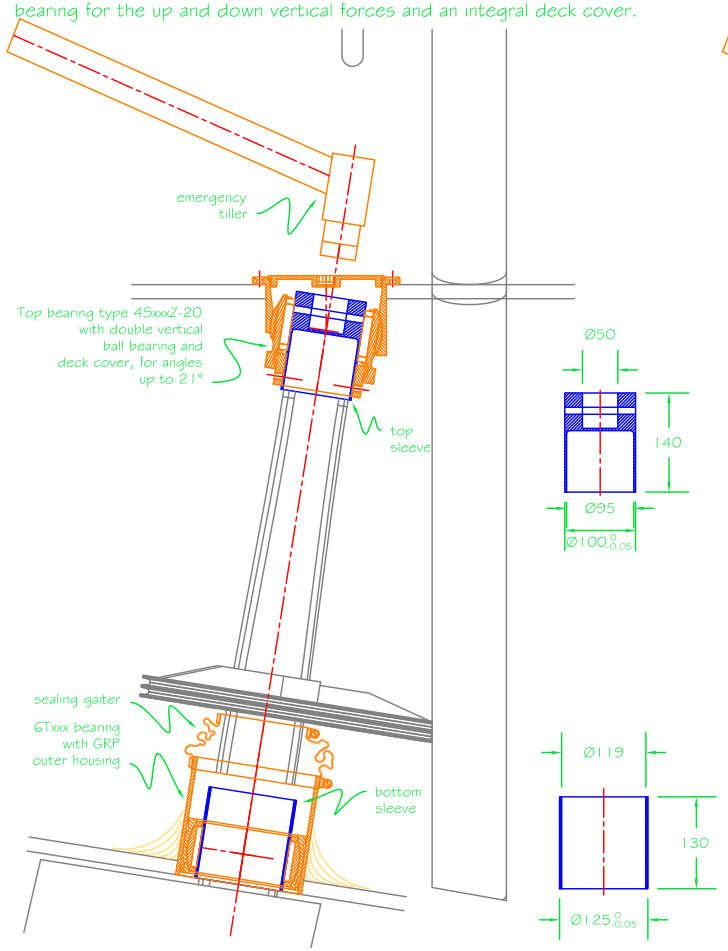
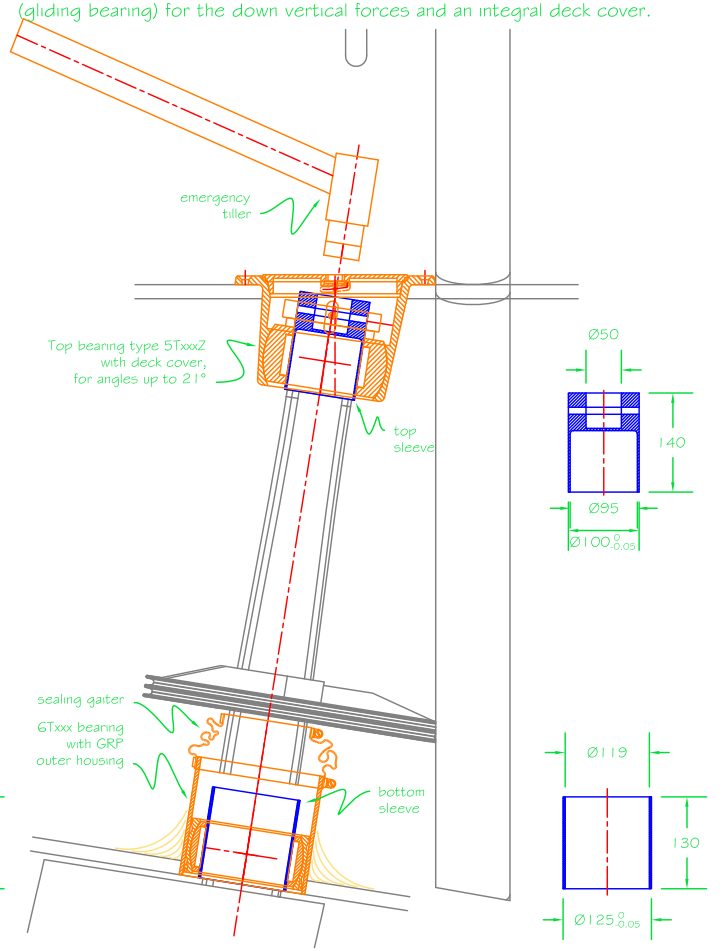
SOLUTION 1

Example 022a: carbon rudder shaft with anodised aluminium or stainless 316 sleeves to achieve an accurate running surface.
The bottom bearing is the 6Txxx series PETP self-aligning roller bearing (no metal parts) which is very easy to laminate due to the GRP outer housing sealed with a neoprene gaiter.
The top bearing is the 45xxxZ-20 series self-aligning bearing with a twin ball bearing for the up and down vertical forces and an integral deck cover.



SOLUTION 2

Example 022a: carbon rudder shaft with anodised aluminium or stainless 316 sleeves to achieve an accurate running surface.
The bottom bearing is the 6Txxx series PETP self-aligning roller bearing (no metal parts) which is very easy to laminate due to the GRP outer housing sealed with a neoprene gaiter.
The top bearing is the 5TxxxZ series self-aligning roller bearing with topring (gliding bearing) for the down vertical forces and an integral deck cover.



SOLUTION 3

Example 022a: carbon rudder shaft with anodised aluminium or stainless 316 sleeves to achieve an accurate running surface.
The bottom bearing is the 6Txxx series PETP self-aligning roller bearing (no metal parts) which is very easy to laminate due to the GRP outer housing sealed with a neoprene gaiter.
The top bearing is the 5Txxx series self-aligning roller bearing with topring (gliding bearing) for the down vertical forces and a loose deck cover.