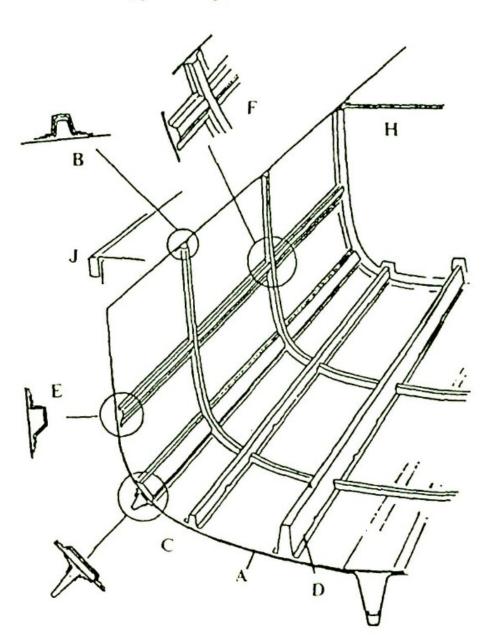
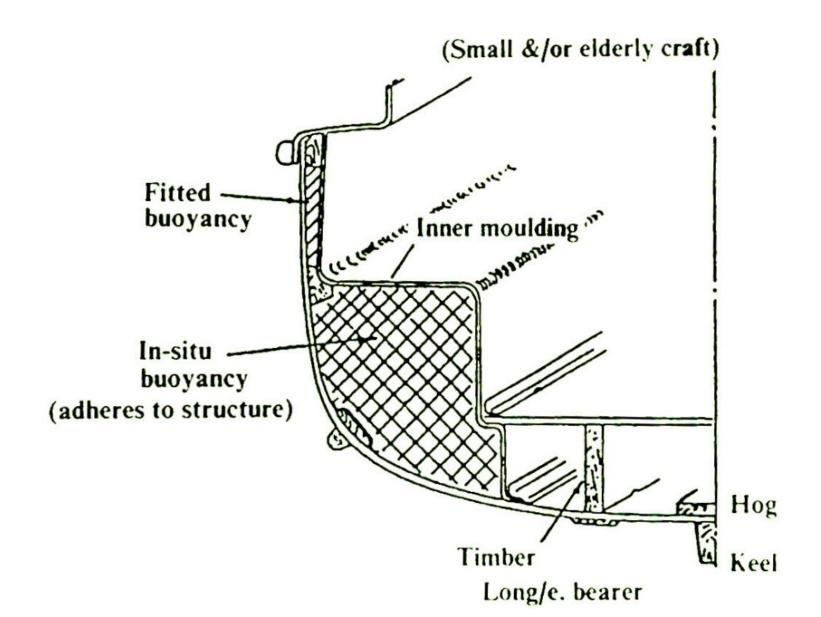


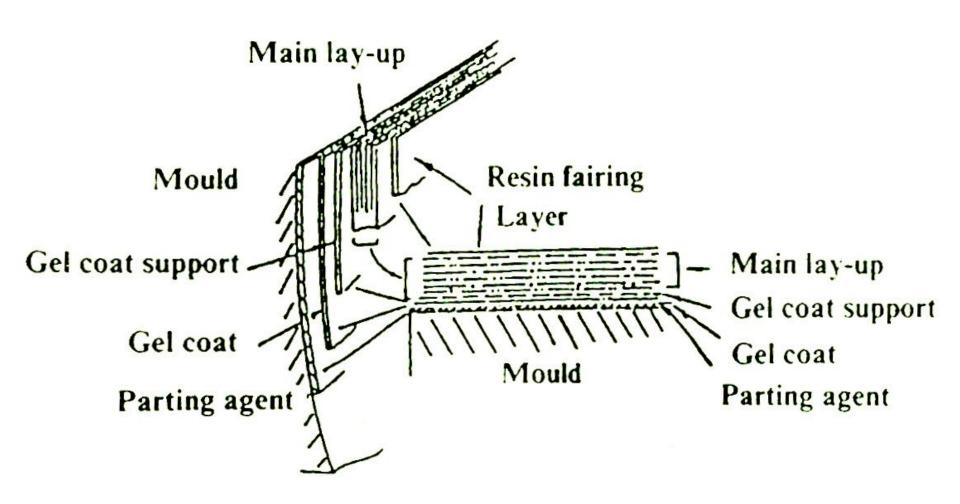
Typical single skin hull structure



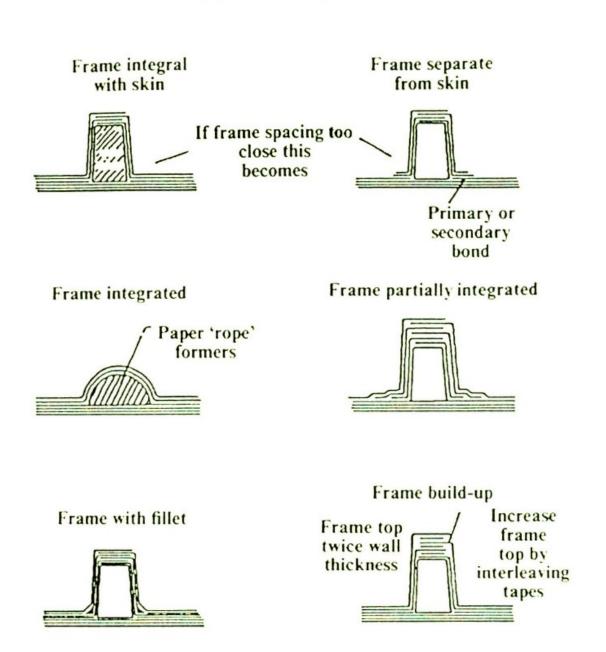
## Alternative hull construction



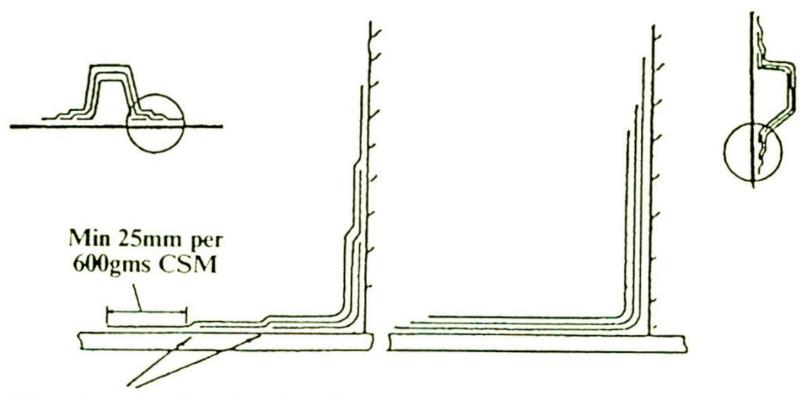
# Typical skin/shell lay-up



#### Types of frame/stiffener



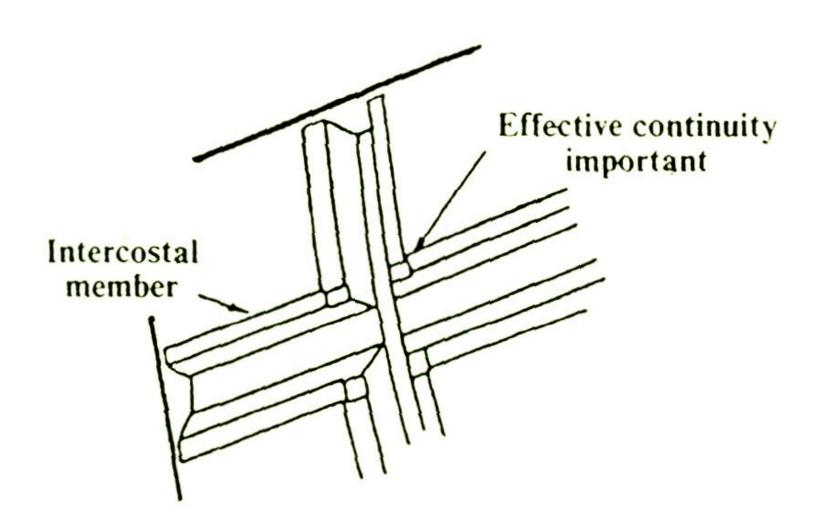
## Flange laminations



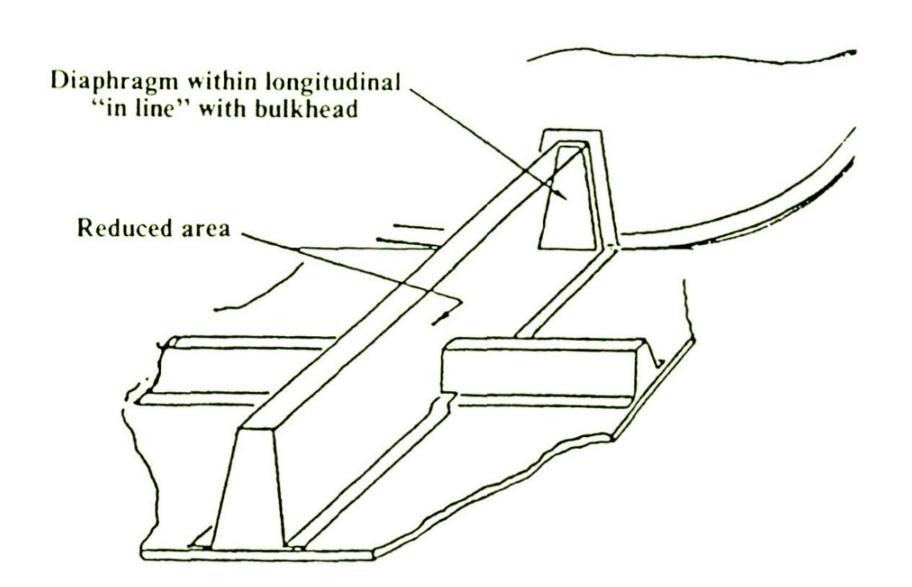
These interruptions "perform" a crack arrestor function should the flange begin to fail

Once this flange begins to debond it is able to continue unabated

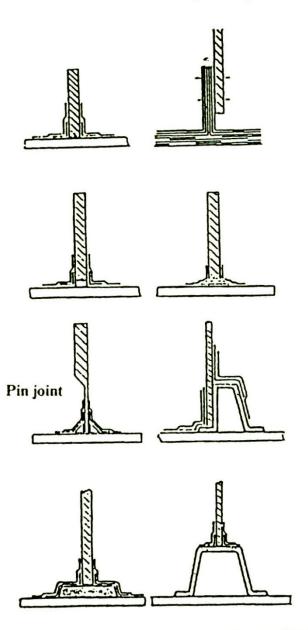
# Intersection of frame - side stringer



# Intersection of frame/main longitudinal

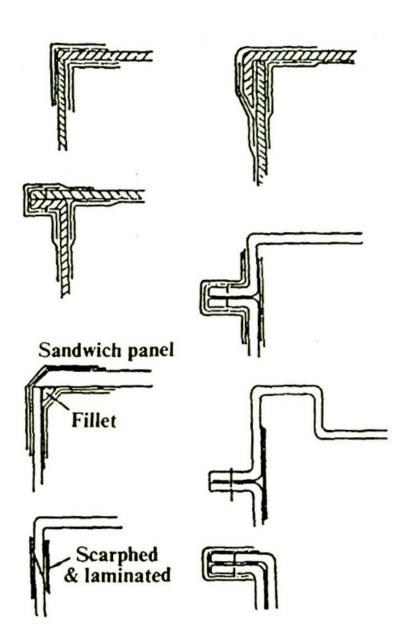


#### Various bulkhead securing arrangements

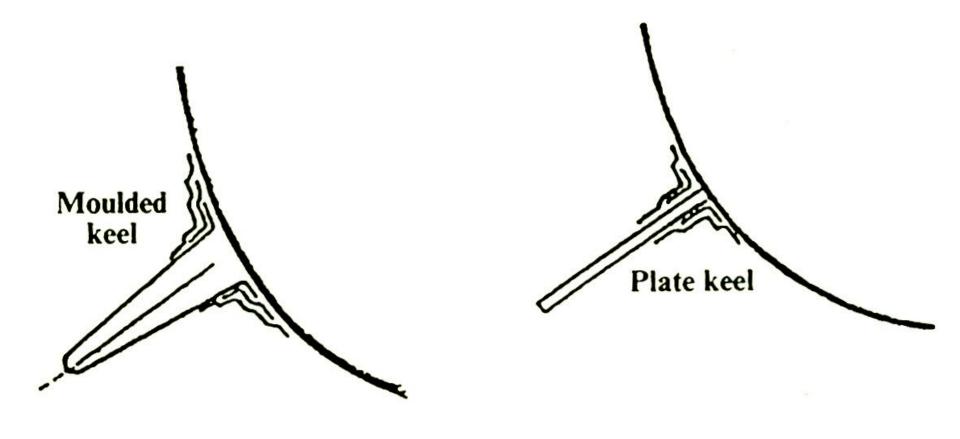


Preferred — those providing support and spreading load

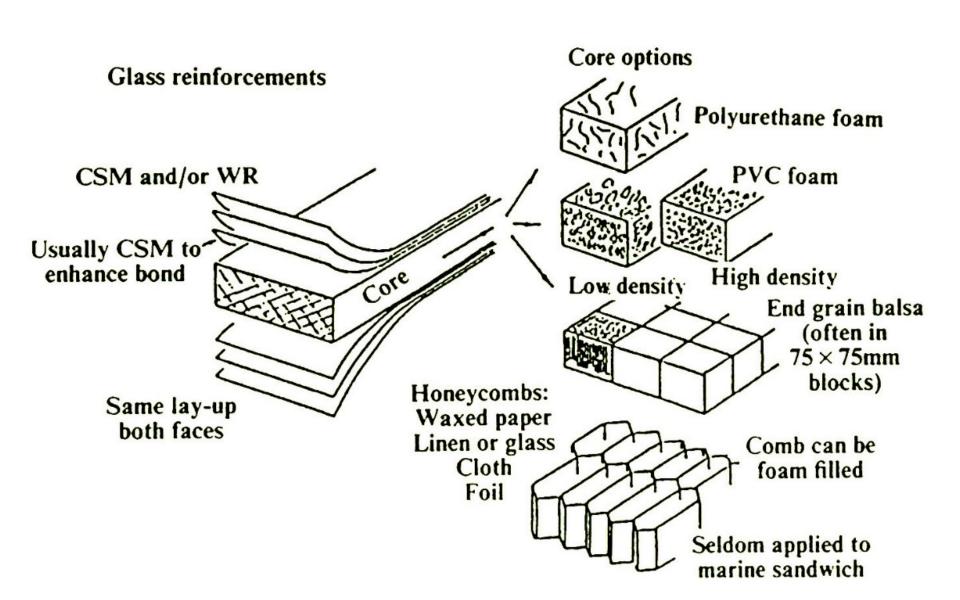
Types of corners



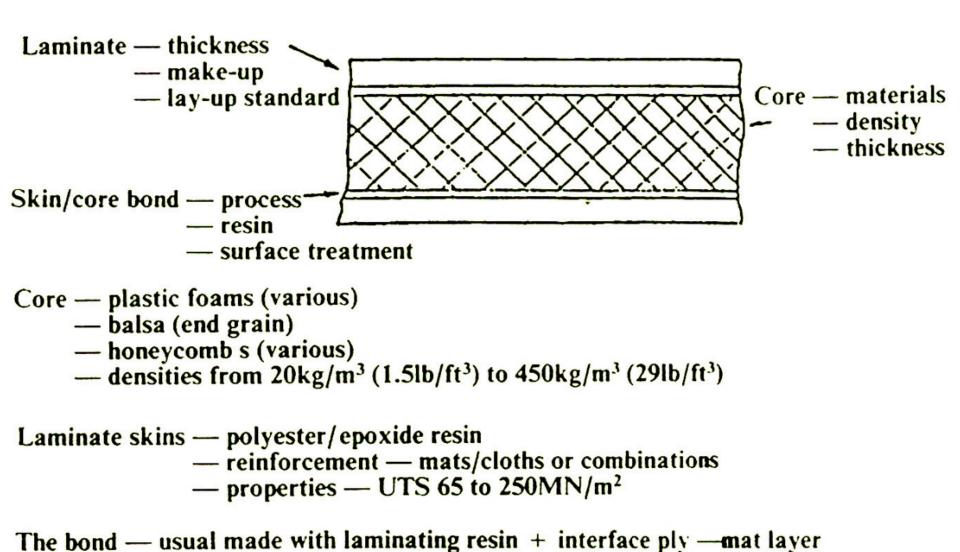
# Bilge keels



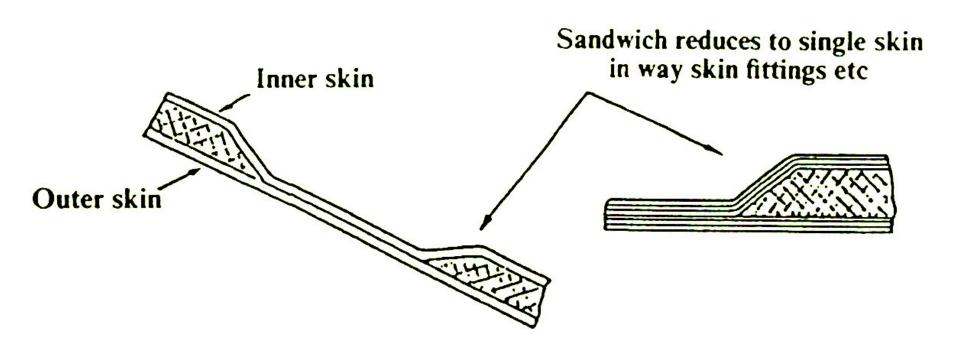
## Typical GRP sandwich



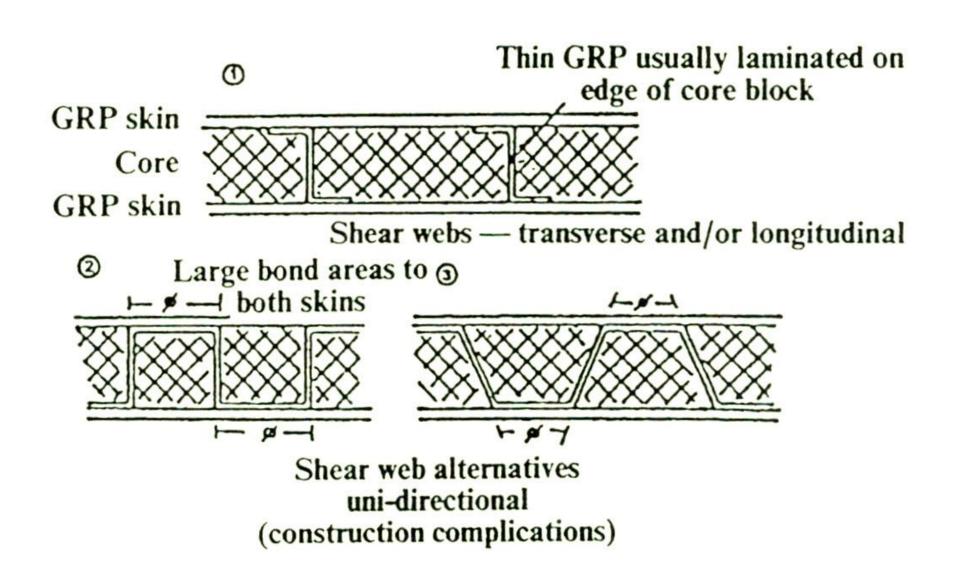
#### Sandwich variables

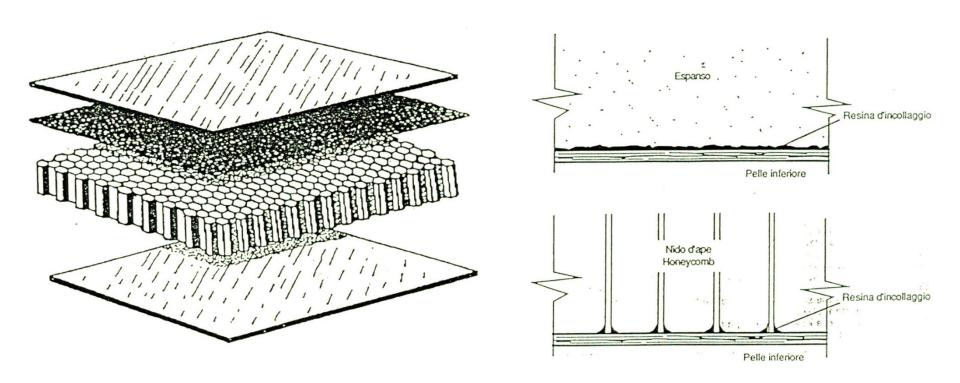


# Sandwich/single skin transition

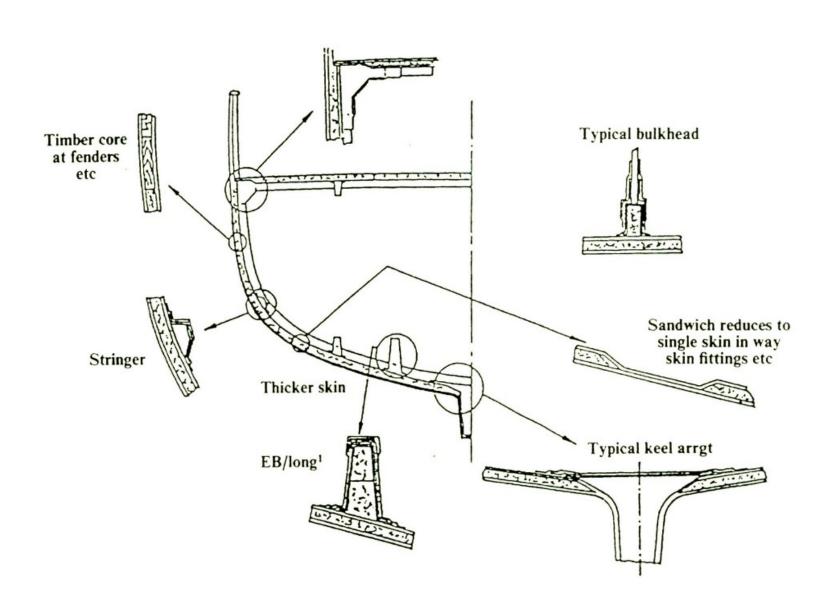


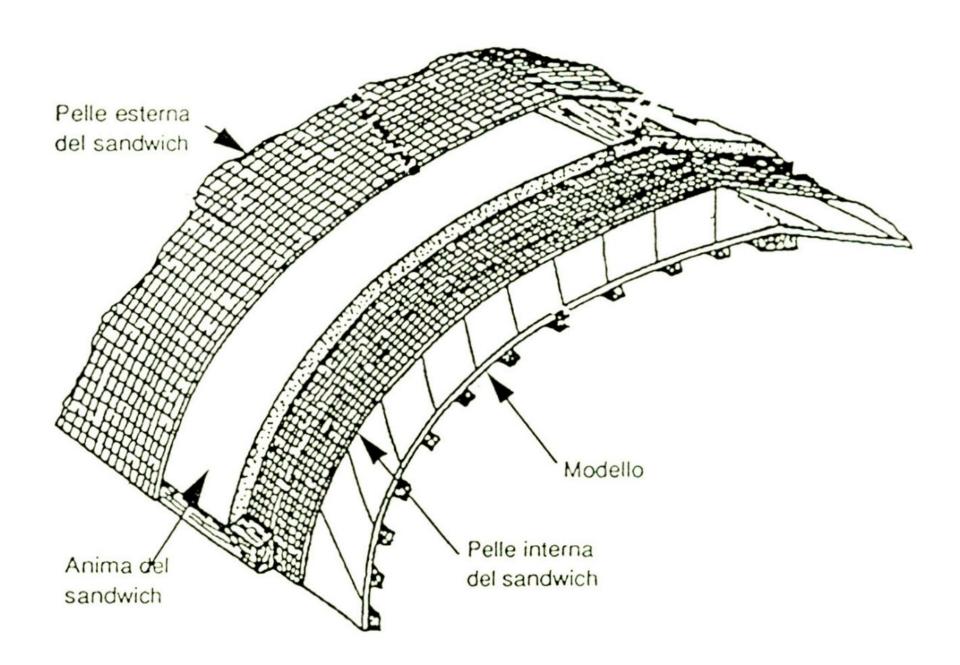
## Shear web



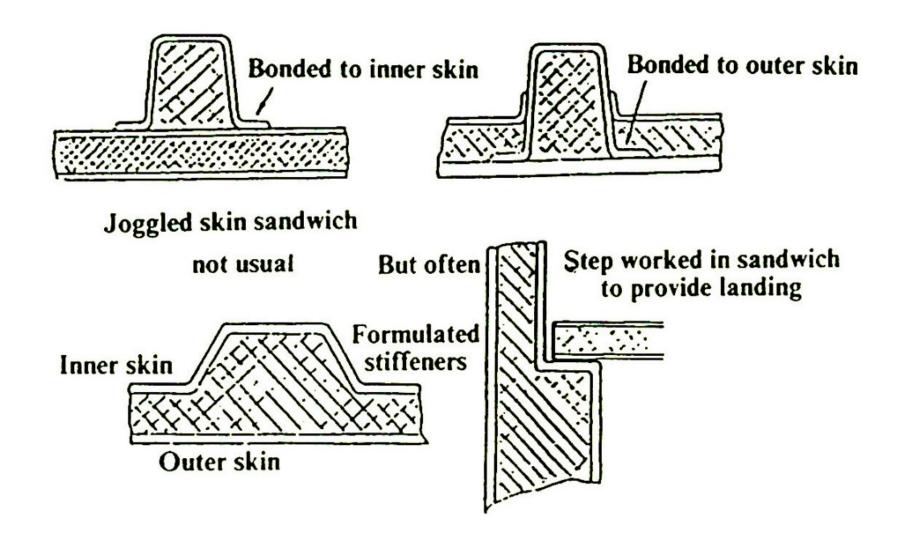


#### Typical sandwich hull structure

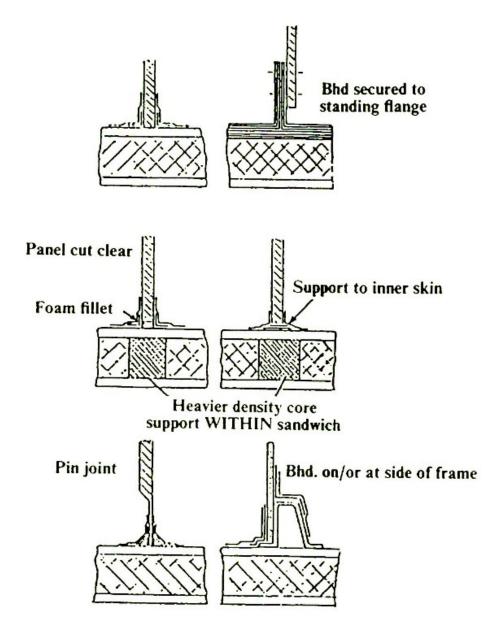




### Frames to sandwich skin alternatives



#### Alternative bulkhead/sandwich arrangements



# Guidance Notes for the Classification of Special Service Craft



**Design Details** 

