

GREIG WESTERN 1804348
13/5/22
ACHA 6012

10 OF 11

4b FIBRE REINFORCED COMPOSITES:

CARBON FIBRE, Kevlar AND FIBREGLASS ARE WELL KNOWN IN THIS CLASS WITH HIGH SPECIFIC STRENGTH OR STIFFNESS BEING REQUIREMENTS. SPECIFIC STIFFNESS KNOWN AS SPECIFIC MODULUS.

THESE ARE USED IN AIRCRAFT AND MOTORSPORT AS THEY ARE STRONG AND LIGHT BUT EXPENSIVE

STRUCTURAL COMPOSITES:

LAMINATES AND SANDWICH PANELS.

LAMINATES ARE MADE UP OF SHEETS PLACED IN DIFFERENT DIRECTIONS TO MAKE USE OF DIRECTIONAL STIFFNESS OR STRENGTH. SANDWICH PANELS USE FACES OF COMPOSITE OR OTHER MATERIALS ~~AND~~ EITHER SIDE OF A LESS DENSE MATERIAL. ~~THESE ARE NOT~~ HONEY COMB IS OFTEN USED.