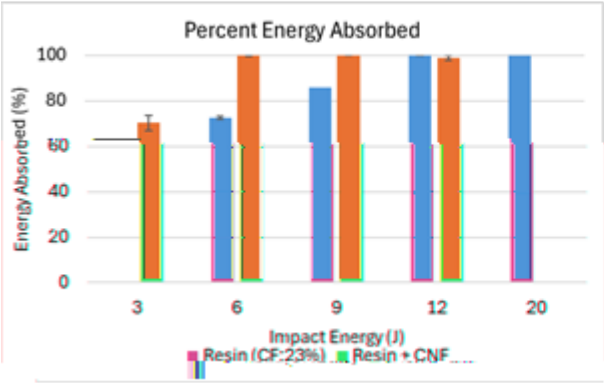
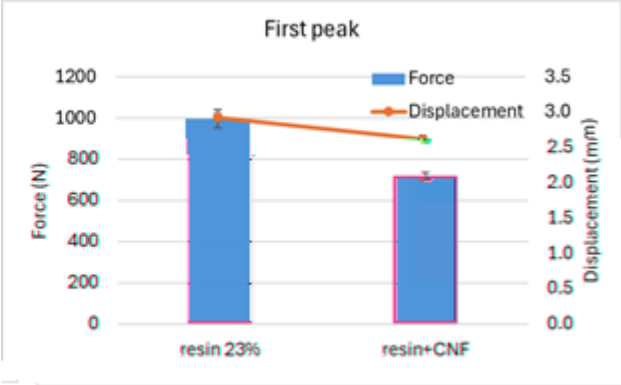
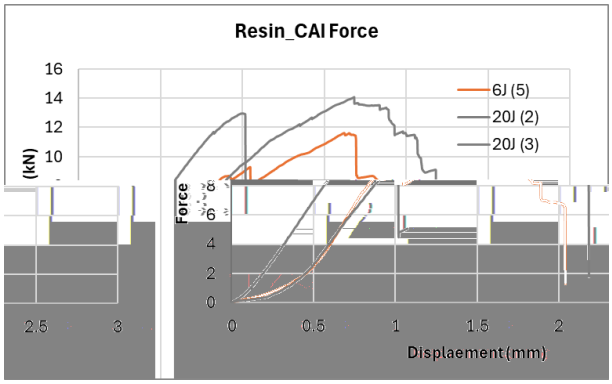
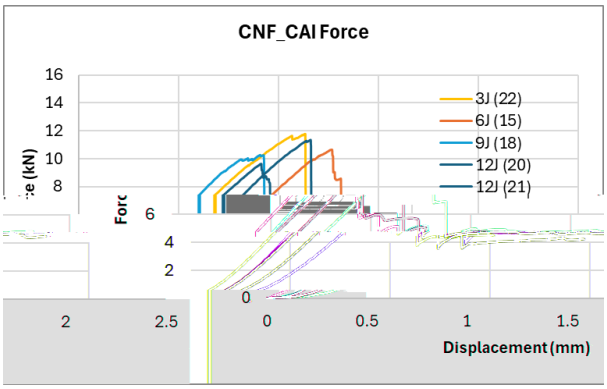
CFRP

CFRP CO_2


Percent Energy Absorbed
Energy Absorbed (%)
100
80
60
40
20
0
3
6
9
12
20
Impact Energy (J)
Resin (CF:23%)
Resin + CNF


First peak
Force
Displacement
Force (N)
1200
1000
800
600
400
200
0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Displacement (mm)
resin 23%
resin+CNF


Resin_CAI Force
16
14
12
10
(kN)
6J (5)
20J (2)
20J (3)
Force
8
6
4
2
0
2.5
3
0
0.5
1
1.5
2
Displaement (mm)


CNF_CAI Force
16
14
12
10
8
(kN)
3J (22)
6J (15)
9J (18)
12J (20)
12J (21)
6
4
2
0
2
2.5
0
0.5
1
1.5
Displacement (mm)