

DYNAMIC TESTS ON FORGE ELECTRONICS MESH REFLECTORS SD19 & SD21 CONDUCTED IN THE DRA BEDFORD 13ft x 9ft LOW SPEED WIND TUNNEL.

TEST DATE: 6 September 1994

Configuration: SD19 (20" mesh reflector)

Speed (mph)	Angle (degrees)	Drag (N)	Side force(N)
191	0	572	15
191	45	325	282
191	90	-86	390
191	135	-418	271
191	180	-571	-51

Configuration: SD21 (24" mesh reflector)

Speed (mph)	Angle (degrees)	Drag (N)	Side force (N)
181	0	655	96
181	45	351	335
181	90	-69	372
181	135	-443	187
181	180	-677	33

In both configurations the model was initially secured on the tunnel centreline, facing into the wind.

All results have been rounded up to the nearest integer value.

Wind off (dead weight) loads have been removed from the wind on loads.

On reaching the maximum speed the model was rotated anti-clockwise (as viewed from above).

Readings have not been corrected for model angle.

Drag is positive to the rear of the model (when facing into the wind).

Side force is positive to the left of the model (when facing into the wind).

The data was recorded during the test and is held by DRA Bedford

Signed for & on behalf of DRA Bedford

A handwritten signature in black ink, appearing to read 'M.H. Hunter', with a horizontal line underneath.

M.H.Hunter BSc
Manager, 13ft x 9ft Wind Tunnel
HWA Dept
DRA Bedford.

The DRA is an Executive Agency of the Ministry of Defence

