PLP
COMPOSITE TECHNOLOGIES INC.
57 Creamery Road
P.O. Box 429
Fitzwilliam, New Hampshire 03447

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Computerized Composite FLAGPOLE Engineering and Design
with Load Calculations Based on Standards Established by
The National Association of Architectural Metal Manufacturers (NAAMM)
and
The American Association of State Highway and Transportation Officials (AASHTO)
6th Edition 2013, using Appendix C-Alternate Method for Wind Pressures.

TABLE 1

GIVEN INFORMATION

Flagpole name	50 CMDR
Nautical yardarm	13.5 feet long, 33 feet above ground
Gaff	7.5 feet long, 33 feet above ground
Height of pole	50 feet
Depth of bury in ground	5 feet
Base diameter	9.818 inches
Tip diameter	4.044 inches
Flag size, hoist x fly	0 feet x 0 feet (polyester fabric)
Flags, nautical yardarm (2)	0 feet x 0 feet (polyester fabric)
Flag, gaff	0 feet x 0 feet (polyester fabric)
Wind speed	150 MPH, gust factor 1.3
Material	PLP16, 50 inches wide
Breaking Stress	24000 psi
Modulus of Elasticity	2000000 psi
Wall Th./Inside Dia. ratio	.018