GAF Design Services

Phone: 877-423-7663, opt. 4, opt. 3
Email: designservices@gaf.com

REQUEST DATE: _____

DATE NEEDED: _____

TERRITORY MANAGER: _____

UPLIFT CALCULATIONS: PROJECT INFORMATION

GAF WILL CALCULATE DESIGN WIND UPLIFT PRESSURES WHEN THE FOLLOWING INFORMATION IS PROVIDED:

PROJECT/BUILDING NAME:			
ADDRESS:	CITY:	STATE:	ZIP:
☐ GENERAL WIND CALCULATION	☐ WIND ADDENDUM (ENHANCED DIAMOND PLEDGE™ WIND SPEED COVERAGE)		
APPLICABLE ASCE 7 EDITION:	☐ ASCE 7-05 (IBC 2009)	☐ ASCE 7-10 (IBC 2012/2015)	☐ ASCE 7-16 (IBC 2018)
BUILDING HEIGHT: (AT EAVES)	SQUARES:		
DESIGN WIND SPEED: (FOR ADDENDUMS — WIND SPEED REQUESTED)			
OCCUPANCY/RISK CATEGORY:	☐ II	☐ III	☐ IV
SURROUNDING TERRAIN EXPOSURE:	☐ B LARGE CITY CENTER, URBAN, SUBURBAN, OR WOODED AREA ☐ C OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS (MOST COMMON) ☐ D FLAT, UNOBSTRUCTED GROUND FACING A LARGE BODY OF WATER (I.E., LAKE OR SEA FRONT)		
☐ OPEN	☐ ENCLOSED	☐ PARTIALLY ENCLOSED	
BUILDING USE:			

CONTACT INFORMATION

NAME:
COMPANY:
PHONE:
EMAIL:

GAF's General Wind Calculations are based solely on information submitted to GAF and are intended as a reference for architects, specifiers, and roofing contractors. These calculations are not a substitute for professional design services and do not replace or supersede design plans, construction contract documents, or building code requirements. Each project has unique requirements, so GAF highly recommends users of these calculations independently verify their accuracy and appropriateness with the designer of record. GAF's wind addendum calculations are performed for GAF's sole benefit and are intended only to allow GAF to determine whether it can offer enhanced wind coverage for a given product.

EXPLANATIONS OF INPUTS FOR UPLIFT CALCULATIONS

INPUT	DESCRIPTION
Applicable ASCE 7 Edition	■ Depending on which version of the building code is applicable, a different version of ASCE 7 should be used.
Design Wind Speed	■ For general wind calculations, use the design wind speed as determined by the building specifics (location, occupancy) or as specified by the designer. ■ If this is for enhanced wind coverage, insert the wind speed needed for the guarantee.
Occupancy/Risk Category	■ II: Buildings not listed in either category III or IV (most buildings). ■ III: Buildings where risk poses substantial risk to human lives or causes substantial economic impact, such as schools, nursing homes, daycares, power plants. ■ IV: Buildings that are essential facilities, such as hospitals, fire stations, and other emergency rescue facilities, and buildings that store, process, or manufacture hazardous materials.
Surrounding Terrain	■ Explanations provided on the request form. ■ For exposure D, building is within 1,500 feet of the open body of water or 10x the building height, whichever is greater (note that the body of water should be greater than 1 mile in width; this would exclude ponds, some rivers, etc.).
Enclosure Classification	■ Open — A building having each wall at least 80% open. ■ Enclosed — Most buildings; buildings that are not "open," e.g., a multistory parking garage. Buildings that are not partially enclosed are considered to be "enclosed." ■ Partially Enclosed — Buildings that have large openings in one or two adjacent walls with small or no openings in other walls, e.g., warehouses with roll-up doors. Consideration should be given to the possibility of door or window loss during a wind event.