DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
FLOODPROOFING CERTIFICATE
FOR NON-RESIDENTIAL STRUCTURES

Paperwork Burden Disclosure Notice

Public reporting burden for this data collection is estimated to average 3.25 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and submitting this form. You are not required to respond to this collection of information unless a valid OMB control number is displayed on this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing the burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 1800 South Bell Street, Arlington, VA 20598-3005, Paperwork Reduction Project (1660-0008) NOTE: Do not send your completed form to this address.

General: This information is provided pursuant to Public Law 96-511 (the Paperwork Reduction Act of 1980, as amended), dated December 11, 1980, to allow the public to participate more fully and meaningfully in the Federal paperwork review process.

Authority: Public Law 96-511, amended; 44 U.S.C. 3507; and 5 CFR 1320.

Privacy Act Statement

Authority: Title 44 CFR § 61.7 and 61.8.

Principal Purpose(s): This information is being collected for the primary purpose of estimating the risk premium rates necessary to provide flood insurance for new or substantially improved structures in designated Special Flood Hazard Areas.

Routine Use(s): The information on this form may be disclosed as generally permitted under 5 U.S.C. § 552a(b) of the Privacy Act of 1974, as amended. This includes using this information as necessary and authorized by the routine uses published in DHS/FEMA-003 – National Flood Insurance Program Files System or Records Notice 73 Fed. Reg. 77747 (December 19, 2008); DHS/FEMA/NFIP/LOMA-1 – National Flood Insurance Program (NFIP) Letter of Map Amendment (LOMA) System of Records Notice 71 Fed. Reg. 7990 (February 15, 2006); and upon written request, written consent, by agreement, or as required by law.

Disclosure: The disclosure of information on this form is voluntary; however, failure to provide the information requested may result in the inability to obtain flood insurance through the National Flood Insurance Program or being subject to higher premium rates for flood insurance. Information will only be released as permitted by law.

Purpose of the Floodproofing Certificate
for Non-Residential Structures

Under the National Flood Insurance Program (NFIP), the floodproofing of non-residential buildings may be permitted as an alternative to elevating to or above the Base Flood Elevation (BFE). A floodproofing design certification is required for non-residential structures that are floodproofed. This form is to be used for that certification.

A floodproofed building is a building that has been designed and constructed to be watertight (substantially impermeable to floodwaters) below the BFE and with structural components having the capability of resisting hydrostatic and hydrodynamic loads and effects of buoyancy. Before a floodproofed building is designed, numerous planning considerations, including flood warning time, uses of the building, mode of entry to and exit from the building and the site in general, floodwater velocities, flood depths, debris impact potential, and flood frequency, must be addressed to ensure that dry floodproofing will be a viable floodplain management measure.

The minimum NFIP requirement is to floodproof a building to the BFE. However, when it is rated for flood insurance one-foot is subtracted from the floodproofed elevation. Therefore, a building has to be floodproofed to one foot above the BFE to receive the same favorable flood insurance rates as a building elevated to the BFE.

Additional guidance can be found in FEMA Publication 936, Floodproofing Non-Residential Buildings (2013), available on FEMA’s website at https://www.fema.gov/media-library/assets/documents/34270.
FLOODPROOFING CERTIFICATE
FOR NON-RESIDENTIAL STRUCTURES (Continued)

The floodproofing of non-residential buildings may be permitted as an alternative to elevating to or above the Base Flood Elevation; however, a floodproofing design certification is required. This form is to be used for that certification. Floodproofing of a residential building does not alter a community’s floodplain management elevation requirements or affect the insurance rating unless the community has been issued an exception by FEMA to allow floodproofed residential basements. The permitting of a floodproofed residential basement requires a separate certification specifying that the design complies with the local floodplain management ordinance.

<table>
<thead>
<tr>
<th>BUILDING OWNER’S NAME</th>
<th>FOR INSURANCE COMPANY USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shadow River LC</td>
<td></td>
</tr>
</tbody>
</table>

| STREET ADDRESS (Including Apt., Unit, Suite, and/or Bldg. Number) OR P.O. ROUTE AND BOX NUMBER | |
|-----------------------------------------------------------------------------------------------|
| 97 3rd Avenue SE                                                                                     |

<table>
<thead>
<tr>
<th>OTHER DESCRIPTION (Lot and Block Numbers, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPN: 14282-07001-00000 Part of Fractional Block 5, Original Town, Cedar Rapids, IA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CITY</th>
<th>STATE</th>
<th>Zip Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cedar Rapids</td>
<td>IA</td>
<td>52401</td>
</tr>
</tbody>
</table>

SECTION I – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

Provide the following from the proper FIRM:

<table>
<thead>
<tr>
<th>COMMUNITY NUMBER</th>
<th>PANEL NUMBER</th>
<th>SUFFIX</th>
<th>DATE OF FIRM INDEX</th>
<th>FIRM ZONE</th>
<th>BASE FLOOD ELEVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>190187</td>
<td>0410</td>
<td>D</td>
<td>April 5, 2010</td>
<td>AE</td>
<td>(in AO Zones, Use Depth) 723.7</td>
</tr>
</tbody>
</table>

Indicate elevation datum used for Base Flood Elevation shown above: □ NGVD 1929  ☑ NAVD 1988  □ Other/Source: ____________________________

SECTION II – FLOODPROOFED ELEVATION CERTIFICATION (By a Registered Professional Land Surveyor, Engineer, or Architect)

All elevations must be based on finished construction.

Floodproofing Elevation Information:

Building is floodproofed to an elevation of 724 . 7 feet (In Puerto Rico only: ______ . ______ meters).

☐ NGVD 1929  ☑ NAVD 1988  □ Other/Source: ____________________________

(Elevation datum used must be the same as that used for the Base Flood Elevation.)

Height of floodproofing on the building above the lowest adjacent grade is 3.7 ______ feet (In Puerto Rico only: ______ meters).

For Unnumbered A Zones Only:

Highest adjacent (finished) grade next to the building (HAG) ______ . ______ feet (In Puerto Rico only: ______ . ______ meters).

☐ NGVD 1929  ☑ NAVD 1988  □ Other/Source: ____________________________

(NOTE: For insurance rating purposes, the building’s floodproofed design elevation must be at least 1 foot above the Base Flood Elevation to receive rating credit. If the building is floodproofed only to the Base Flood Elevation, then the building’s insurance rating will result in a higher premium. See the Instructions section for information on documentation that must accompany this certificate if being submitted for flood insurance rating purposes.)
Non-Residential Floodproofed Elevation Information Certification:

Section II certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information

I certify that the information in Section II on this Certificate represents a true and accurate interpretation and determination by the undersigned using the available information and data. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME: Stephen L. Emerson
LICENSE NUMBER (or Affix Seal): 03906
TITLE: President
COMPANY NAME: Aspect Inc
ADDRESS: 221 2nd Avenue SE, Suite 400
CITY: Cedar Rapids
STATE: Iowa
ZIP CODE: 52401
DATE: 02.11.16
PHONE: +1 (319) 364-7444

SECTION III – FLOODPROOFED CERTIFICATION (By a Registered Professional Engineer or Architect)

Non-Residential Floodproofed Construction Certification:

I certify the structure, based upon development and/or review of the design, specifications, as-built drawings for construction and physical inspection, has been designed and constructed in accordance with the accepted standards of practice (ASCE 24-05, ASCE 24-14 or their equivalent) and any alterations also meet those standards and the following provisions.

The structure, together with attendant utilities and sanitary facilities is watertight to the floodproofed design elevation indicated above, is substantially impermeable to the passage of water, and shall perform in accordance with the 44 Code of Federal Regulations (44 CFR 60.3(c)(3)).

All structural components are capable of resisting hydrostatic and hydrodynamic flood forces, including the effects of buoyancy, and anticipated debris impact forces.

I certify that the information in Section III on this certificate represents a true and accurate determination by the undersigned using the available information and data. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

CERTIFIER'S NAME: Stephen L. Emerson
LICENSE NUMBER (or Affix Seal): 03906
TITLE: President
COMPANY NAME: Aspect Inc
ADDRESS: 221 2nd Avenue SE, Suite 400
CITY: Cedar Rapids
STATE: Iowa
ZIP CODE: 52401
DATE: 02.11.16
PHONE: +1 (319) 364-7444

Copy all pages of this Floodproofing Certificate and all attachments for 1) community official, 2) insurance agent/company, and 3) building owner.
Memo of Review For Correctness and Completion

The attached FEMA Floodproofing Certificate has been reviewed by this office. The items noted below are not correct on the attached form and should read as entered on this page.

1. The Panel # in Section 1 of the Floodproofing Certificate should read 19113C0410D, instead of simply 0410.

Local Official’s Name: Sandy Pumphrey, PE, CFM
Title: Asst. Development Services Manager (& NFIP/CRS Coordinator)
Community Name: City of Cedar Rapids
Telephone: (319) 286 5363
Signature

Sandy Pumphrey

Comments