



City of Belle Isle
 Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com



REVISION APPLICATION

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Date: 4/5/2021

Permit Number: 2021-03-070
Original Permit Number Issued

Contact Name Andrew Ernst Phone: 407-718-0303

Email A.ERNST@ACERNST.COM

Project Address 5416 Ming Drive Belle Isle, FL 32809 ✓ 32812

Nature of Change Using spray foam on exterior walls facing lake in lieu of batt insulation. This change does NOT alter R-value or energy calcs relating to home.

Change in Job Cost
 ↓
NO



Please see attached letter.

Do revisions affect: Site Architectural Structural Mechanical Electrical Plumbing

Itemize below for each drawing specific proposed changes. Attach additional sheets, if necessary.

Examiner Approval: Allen Johnson PX1653 3/6/22
Updating plans.

Date _____ Finalized/Inspected by: _____

Fee: \$ <u>35.-</u>	Cash/Check #: <u>3641</u> <u>VISA</u>	Date Rec'd: <u>4-7-22</u>	Rec'd By: <u>[Signature]</u>
---------------------	--	---------------------------	------------------------------

base 26 + 3 paid (a) = 35.-



Reviewed for Code
Compliance
Universal Engineering
Sciences

April 4, 2022

A C Ernst Building Corporation Inc
2256 Sunny View Drive
Oviedo, Florida 32765

Re: 5416 Ming Drive
Belle Isle, Florida

Dear Mr. Ernst,

I am in receipt for your request to up-date your current 2020 Florida Energy Code Compliance for the above named address.

I am happy to inform you that your change from the current batt insulation of R-13 in your perimeter walls to a foam insulation of the same R-value (13) does not change the document's validity. The Manual J load calculation as well as the 2020 Florida Energy Form 405 remains the same. If I were to comply with your request, I would just print out another copy of the documents you have in your possession currently without change. It would be different if you were to increase or decrease the R-value itself. I would then change the R-values in the documents and there would be a difference in the documents..

An R-13 of batt insulation has the very same thermal properties of foam, poly-iso, or any other insulating material of the same R-value. Luckily, Florida's code does not take into account the other materials that form the walls layers. Please see Section R303.1.1.1.1 below

R303.1.1.1.1

R-values referenced in Chapter 4 of this code refer to the R-values of the added insulation only. The R-values of structural building materials such as framing members, concrete blocks or gypsum board shall not be included.

Exception: R402.1.5 Total UA Alternative.

I hope this letter can help serve to assist you. Should you need additional clarification I would be happy to assist in any way that I can.

Sincerely,

Tei KucharSKI

Tei KucharSKI

Calcs-Plus



Reviewed for Code
Compliance
Universal Engineering
Sciences