



**COMcheck Software Version COMcheckWeb**  
**Envelope Compliance Certificate**

**Project Information**

Energy Code: 2018 IECC  
 Project Title: ITD Preston Maintenance Shed  
 Location: Preston, Idaho  
 Climate Zone: 6b  
 Project Type: New Construction  
 Vertical Glazing / Wall Area: 3%

Construction Site: Owner/Agent: Designer/Contractor:

**Additional Efficiency Package(s)**

Credits: 1.0 Required 1.0 Proposed  
 Enhanced Envelope Performance, 1.0 credit

<b>Building Area</b>	<b>Floor Area</b>
1-Automotive Facility : Nonresidential	15462

**Envelope Assemblies**

<b>Assembly</b>	<b>Gross Area or Perimeter</b>	<b>Cavity R-Value</b>	<b>Cont. R-Value</b>	<b>Proposed U-Factor</b>	<b>Budget U- Factor<sup>(e)</sup></b>
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Automotive Facility]	568	---	30.0	0.032	0.032
Roof: Other Metal Building Roof, [Bldg. Use 1 - Automotive Facility] (b)	11270	---	---	0.031	0.031
Floor: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - Automotive Facility] (d)	438	---	14.0	0.524	0.540
<b><u>NORTH</u></b>					
Ext. Wall: Other Metal Building Wall, [Bldg. Use 1 - Automotive Facility] (b)	3177	---	---	0.059	0.052
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Automotive Facility]	21	---	---	0.360	0.370
Door: Insulated Metal, Garage door 14% glazing, [Bldg. Use 1 - Automotive Facility]	1120	---	---	0.100	0.310
Ext. Wall: Concrete Block, 8in., Partially Grouted, Cells Ins., Light Density, Furring: Metal, [Bldg. Use 1 - Automotive Facility]	122	8.0	14.0	0.047	0.080
Window: Other Window: Fixed, Perf. Specs.: Product ID PPG, SHGC 0.39, [Bldg. Use 1 - Automotive Facility] (c)	20	---	---	0.290	0.360
<b><u>EAST</u></b>					
Ext. Wall: Other Metal Building Wall, [Bldg. Use 1 - Automotive Facility] (b)	1910	---	---	0.059	0.052
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Automotive Facility]	42	---	---	0.360	0.370
<b><u>SOUTH</u></b>					
Ext. Wall: Other Metal Building Wall, [Bldg. Use 1 - Automotive Facility] (b)	3177	---	---	0.059	0.052
Window: Other Window: Fixed, Perf. Specs.: Product ID PPG, SHGC 0.39, [Bldg. Use 1 - Automotive Facility] (c)	20	---	---	0.290	0.360

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor <sup>(a)</sup>
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Automotive Facility]	21	---	---	0.360	0.370
Door: Insulated Metal, Garage door 14% glazing, [Bldg. Use 1 - Automotive Facility]	840	---	---	0.100	0.310
Ext. Wall: Concrete Block, 8in., Partially Grouted, Cells Ins., Light Density, Furring: Metal, [Bldg. Use 1 - Automotive Facility]	122	8.0	14.0	0.047	0.080
<b>WEST</b>					
Ext. Wall: Steel-Framed, 16in. o.c., [Bldg. Use 1 - Automotive Facility]	110	19.0	14.0	0.043	0.064
Ext. Wall: Other Metal Building Wall, [Bldg. Use 1 - Automotive Facility] (b)	2085	---	---	0.059	0.052
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Automotive Facility]	21	---	---	0.360	0.370
Window: Other Window: Fixed, Perf. Specs.: Product ID PPG, SHGC 0.39, [Bldg. Use 1 - Automotive Facility] (c)	196	---	---	0.290	0.360
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID OH Door Company, SHGC 0.39, [Bldg. Use 1 - Automotive Facility] (c)	54	---	---	0.290	0.770

- (a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
- (b) 'Other' components require supporting documentation for proposed U-factors.
- (c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
- (d) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

## Project Notes

**Envelope PASSES: Design 9% better than code**

### Envelope Compliance Statement

*Compliance Statement:* The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Richard Creason, Principal Architect  
Name - Title

Signature

1/31/2025  
Date

Service and car sales