

# Fibrous Glass Duct Board Systems



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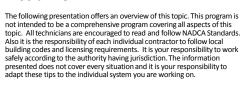


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Presenters



# Disclaimer



The instructor is not responsible in any way for the work you perform after viewing this presentation. You are responsible for your own work.

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## ACR, The NADCA Standard



4.21.5

No cleaning process shall be performed that will damage a properly designed, installed, and structurally sound HVAC system and its components, or negatively affect the performance, operation, or normal life expectancy of the system.



# Cleaning Fiberglass Insulation



#### Air Duct Fiberglass

Many air duct cleaning contractors encounter fiberglass insulation in the air handlers, plenums and ductwork of the HVAC systems they are cleaning

Engineers originally designed in fiberglass insulation in HVAC systems for  $\underline{acoustical}$  reasons (help control sound) or for  $\underline{thermal}$  reasons (to help prevent temperature loss).

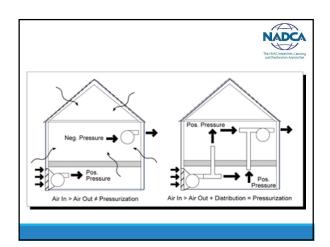


# **Assessment**

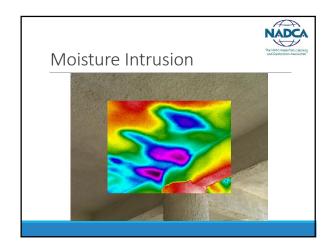
























Be Honest In Your Evaluation





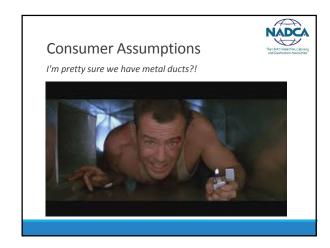


# Where is the fiberglass?

Fiberglass insulation inside HVAC systems is typically found, but not limited to:

- •Supply & Return Trunk Lines
- •Plenums
- •Junction Boxes
- •Cans/Boots
- •Air Handler Linings
- •Etc...

# Where is the fiberglass?









# Cleaning



Dealing with fiberglass insulation can be a real challenge. It can be damaged or degraded by:

- •Air erosion from the fan in the air handler
- •Smoke contamination from a fire
- •Mold or microbial contamination cause by the combination of excessive moisture and a microbial food source (dirt)
- •Age
- •Improper Cleaning Methods
- Building Design flaws
- •Building Use/Occupancy
- •Etc.....



#### What to do?

What do you do? What are your options?

In all cases, the first thing you must do is to inspect the fiberglass to determine the condition it's in.

- Can it stand up to the rigors of cleaning or does it fall apart when you touch it?
- ❖ Is it wet?
- Structural Integrity?

















### Conclusion

- Assessment is critical and should be the 1<sup>st</sup> step
- The cleaning method depends on the duct material and should be selected on a case-by-case basis
- There are viable, cost effective alternatives to replacement of ductwork



Thank You for Participating



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