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Underfloor Air Distribution Design Guide

Project Objective Develop an ASHRAE Design Guide on Underfloor Air Distribution (UFAD) Systems. This research was conducted in collaboration with the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) as defined in the

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ASHRAE Research Project 1064-RP.

Underfloor Air Distribution (UFAD) Design Guidance

The development of this design guide on underfloor air distribution (UFAD) is the result of a cooperative research agreement between the American Society of Heating, Refrigerating and Air-

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Conditioning Engineers, Inc. (ASHRAE), and the Center for the Built Environment (CBE) at the University of California, Berkeley, for ASHRAE Research Project RP-1064.

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The use of underfloor air distribution systems (UFAD) is increasing as a solution to space conditioning concerns. As the use of these systems increases, so does the importance of initial design and effective operation and maintenance of these systems after installation. This set includes both UFAD

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Guide and The O&M Guide for complete guidance. The UFAD guide provides assistance in the planning, construction, and operation of UFAD systems, while carefully detailing the major differences

...

**UFAD Guide: Design, Construction
and Operation of ...**

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Return Air Design for Underfloor Air Distribution Overhead systems typically utilize duct pressures of .25 to 2 inches water column ("wc). Those systems are seldom concerned with return air pressure drop. If overhead systems have a return air pressure restriction, the room might become pressurized, but comfort will mostly be maintained.

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Underfloor Air Distribution (UFAD): The Complete Guide ...

underfloor air distribution S9

APPLICATION GUIDE APPLICATION GUIDE

DESIGN BASICS PLENUM DESIGN The

raised floor office can be supplied with
conditioned air from below the floor in
two ways - pressurized plenum or

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neutral plenum. PRESSURIZED PLENUMS
The pressurized plenum (the area
between the slab and the raised floor)

APPLICATION GUIDE underfloor air distribution

CBE completed this project in December
of 2003, and the design guide is now
available from ASHRAE. This section was

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developed before the completion of the Underfloor Air Distribution (UFAD) Design Guide published by ASHRAE. Please refer to the design guide for the most comprehensive and up-to-date guidelines.

Underfloor Technology Design Guidelines

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Underfloor air distribution (UFAD) systems are a hybrid of displacement and mixing ventilation systems, and are specifically designed to mix the occupied zone—the first 6 ft [1.8 m] of the room—allowing air to stratify above this point.

SECTION I - Price Industries

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Underfloor air distribution is an air distribution strategy for providing ventilation and space conditioning in buildings as part of the design of a HVAC system. UFAD systems use an underfloor supply plenum located between the structural concrete slab and a raised floor system to supply conditioned air through floor diffusers directly into the

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occupied zone of the building. UFAD systems are similar to conventional overhead systems in terms of the types of equipment used at the cooling and heating

Underfloor air distribution - Wikipedia

UFAD (underfloor air distribution) is an

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innovative air distribution approach that is growing in popularity amongst commercial architects and mechanical engineers. Because of its improved air quality, cost-effectiveness, design flexibility and energy efficiency, it is quickly becoming a preferred solution for heating and cooling office buildings — for both new constructions, and

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renovations.

Underfloor Air Distribution (UFAD) Heating & Air ...

Underfloor air distribution derives its name from the use of the underfloor plenum below a raised (access) floor system to supply conditioned air directly into the occupied zone of the building,

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typically through floor diffusers.

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Underfloor Air Distribution (UFAD)
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**(PDF) Underfloor Air Distribution
(UFAD) Design Guide ...**

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The design of UFAD systems takes into account the same loads as conventional HVAC systems. However, because UFAD systems rely on convection from heat sources in an occupied zone, the thermal load they are expected to remove is calculated only to a height of 6 ft.

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Underfloor Air Distribution

Underfloor Air Distribution: Lessons Learned About the Author H By Allan Daly, P.E., Member ASHRAE Allan Daly, P.E., is a principal at Taylor Engineering, Alameda, Calif. VAC systems using underfloor air distribution (UFAD) promise multiple benefits. These include:1 improving occupant

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satisfaction by

Underfloor Air Distribution: Lessons Learned

HVAC OVERVIEW OF THE UNDERFLOOR AIR DISTRIBUTION (UFAD) An Underfloor Air Distribution (UFAD) system uses the open space below a raised floor system to deliver conditioned air to supply

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outlets located in the floor. It is best to think of an UFAD as an upside down alternative to conventional overhead (OH) air distribution.

HVAC Overview of Underfloor Air Distribution (UFAD)

First, the 227 of references from the book “Underfloor Air Distribution (UFAD)

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Design Guide” by Fred S. Bauman were used to start searching literature. His references include papers, articles, and...

(PDF) Literature Review on Underfloor Air Distribution ...
ASHRAE DL Seminar on “ASHRAE Advanced Energy Design Guide and .

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Underfloor Air Distribution Systems”

Date & Time: 17 May 2017 (Wednesday)

(2:00pm - 5:15pm) Venue: Singapore

Polytechnic Graduates' Guild (SPGG),

Carnation Room, Level 3 The ASHRAE

Advanced Energy Design Guide The

Advanced Energy Design Guides were

originally conceived as a "cookbook" for

newcomers to energy

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ASHRAE DL Seminar on “ASHRAE Advanced Energy Design Guide ...

Underfloor air distribution (UFAD) is an air distribution strategy for providing ventilation and space conditioning in buildings as part of the design of a HVAC system. UFAD systems use an underfloor supply plenum located between the

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structural concrete slab and a raised floor system to supply conditioned air through floor diffusers directly into the occupied zone of the building.

Underfloor air distribution - Triposo

Hughes, Glenn and English, Michael:

Underfloor Air Distribution in a
Commercial High Rise ... 4 heat and

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allows the hot air to rise. From the underfloor to the first 72 inches, a four degree rise in temperature is achieved creating a stratification of the air or temperature barrier. The air

Underfloor Air Distribution in a Commercial High Rise: The ...

The ASHRAE Underfloor Air Distribution

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Design Guide suggests that any building considering a raised floor for cable distribution should consider UFAD.

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