

[0093] FIG. 10 shows a preferred construction of upper cross member 141 and its connection to upper horizontal member 139. Also shown in FIG. 10 is upper cross member 141, which is used to stabilize frame 130. Each upper cross member 141 comprises end flange 142, which includes slots 1043 that allow for variable alignment with the holes 143 along the top edge of upper horizontal member 139. This configuration of slots 1043 and holes 143 allows upper cross members 141 to be easily added, removed or moved as desired.

[0094] With further reference to FIGS. 2 and 9A, connector structure 14 is mounted directly onto two adjacent vertical support posts, one each from modular system unit 20 and modular system unit 20a. Connector structure 14 acts as an air containment shroud, to assist in providing a relatively air-tight seal between the two modular system units 20 and 20a.

[0095] As shown in FIGS. 11A and 11B, cross members 141 also allow for the mounting of baffle frame 88a, which carries baffles 88. Baffle flume 88a comprises one or more flanges 147 that sit on top of and are aligned with openings on the top of cross member 141. The flange/opening combination allows for variable placement of baffle frame 88a along the length of cross member 141, such that baffle frame 88a may be positioned along the left side, right side or in the center of modular system unit 20. Also shown in FIG. 11A are optional decorative corner pieces 146 that abut door 60 to provide a more finished appearance than would be presented by vertical structural members 133 alone.

[0096] FIGS. 12 and 13 show two possible embodiments of modular system ceiling tiles. In both embodiments, the ceiling tiles are overlapping, interlocking, and individually removable. As shown in FIG. 12, ceiling tiles 151 are gravity-interlocked such that they float or nest upon one another. Specifically, ceiling tiles 151 overlay one another in a manner that allows them to slide toward and away from one another while still remaining overlapped. This particular construction provides a continuous but adjustable modular system unit ceiling that can be adjusted to accommodate the ceiling air ducts.

[0097] As shown in FIG. 13, ceiling tiles 161 are laid across the width of the ceiling and also overlap and interlock. Unlike ceiling tiles 151, ceiling tiles 161 are preferably mechanically fastened. In this embodiment, the ceiling ducts can be accommodated by removing the required number of tiles.

[0098] The particular construction, materials and dimensions described herein are not limitations of the invention, as other constructions can accomplish the invention described herein.

[0099] Although specific features of the invention are shown in some figures and not others, this is for convenience only, as some features may be combined with any or all of the other features in accordance with the invention.

[0100] Recitation ranges of values herein are merely intended to serve as a shorthand method of referring individually to each separate value falling within the range, unless otherwise indicated herein, and each separate value is incorporated into the specification as if it were individually recited herein.

[0101] The use of any and all examples, or exemplary language (e.g., "such as") provided herein, is intended merely to better illustrate the invention and does not pose a limitation on the scope of the invention.

[0102] A variety of modifications to the embodiments described herein will be apparent to those skilled in the art from the disclosure provided herein. Thus, the invention may be embodied in other specific forms without departing from the spirit or essential attributes thereof.

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