

15. Controlling Diffusion of Dust using Partition Walls and Local Dust Collection - Air Panel Partition, Push-pull Dust Collection, and Mist Dust Settlement -

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Diverse kinds of dust exist in the working environment at construction sites. Dust control has been a long-standing issue and has recently been particularly emphasized as cases of renovating buildings while in use have increased. Aiming to establish an in-situ method for collecting dust that can quickly respond to dusts produced at various areas of a construction site, three different dust control technologies were concretized by investigating partitioning methods that are easy to assemble and checking dust diffusion control effects of the technologies by performing air current analyses. This paper describes overviews and applicabilities of the methods and the results of assemblage verification tests and indoor tests, which were conducted to check the dust collection performances.

Key words : air panel, push pull, mist