

## 12. Development of a Radio Wave Absorbing Panel

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The new radio wave absorbing panel was developed in order to prevent TV ghost with new constructed buildings, and to apply it to an anechoic chamber which is used for the study about radio wave. Ferrite tiles are the radio wave absorber. By combing it with reflecting reinforcement or concrete, this panel can prevent an occurrence of harmful reflecting wave. Though the method in which ferrite tiles are stored in the outer wall has been still developed, they are difficult to handle and expensive because of its complicated details. In the case of applying them to an anechoic chamber each tile has to be put on the wall independently, so it takes much work. Moreover gaps between tiles reduce their performance. In the case of newly developed ferrite tiles, they have high degree of freedom in the shape and thickness they are easy to produce. Three types of ferrite tiles were developed so that they are able to correspond to various outer designs of the building. And their easiness of execution and radio wave absorbing performance were confirmed.

**Key words :** TV ghost, anechoic chamber, ferrite tile, unit, glazing