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Heat Resistant Double Deck Roof

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160

( ) 30

Synopsis :
Two types of insulated-cladding systems suitable for roofs were developed. Each system comprises three parts, namely, and external profiled sheet using RIVER LOCK 160 standing seam roofing, glass-fiber insulation blanket, and two types of internal profiled sheets (RIVER LOCK WH and RIVER LOCK WK). Heat-insulation, sound-insulation and mechanical properties of the systems have been examined, and the roofing systems have passed the 30-min of fire resistance test of JIS A 1304.

断熱二重折板式屋根の性能と施工性*

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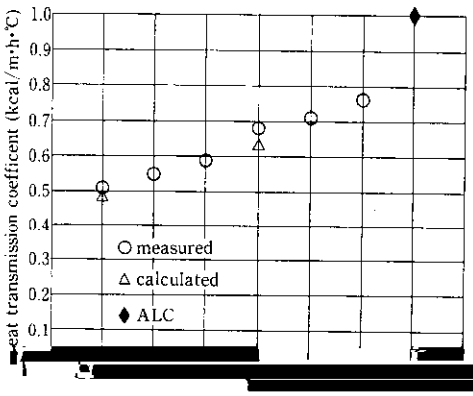
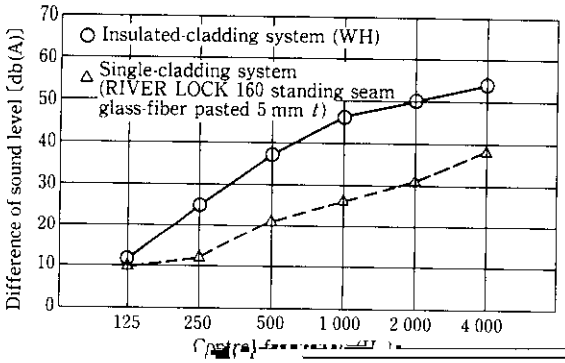
要旨

リバーロック160ハゼをベースとし断熱材としてグラスウールを

500 (mm)

500 (mm)





WK-0 WK-1 WK-2 WH-0 WH-1 WH-2 ALC

Fig. 6 Comparison of sound insulation properties

ρ=0.5)

Fig. 5 Heat transmission coefficent

は質量則に支配され，一重折板屋根では計算値とよく合う。一方，二重折板屋根においては，中間の空気層とグラスウールの影響で，

Table 4 Loading test results

Table 5 Tensile test results of fitting parts

River Lock WK	River Lock WH
Upper metal fitting	Lower support metal fitting