# ??????????? ???????????? James







??????????? ???????????? James. ? James Instruments Inc. (USA) ???????????? ???? ????????? ??????? ??? ?? ????????????? ??????? (Non-Destructive Testing equipment) ???????????? ?? ????? ??????? ??????. ?? W-M-250 Manual Test Hammer ????? ?? ??????? ??????????? ??? James ??? ??? ?? ???????????? ?????? ??? ??????????? ???????????? ??? ???????????????? ?????? ???? ???.

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[??????? ??? ?? ??????]

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??????????? ???????????? James

Model W-M-250

**? James Instruments Inc. (USA)** ???????????? ????????????? ??????? ??? ?? ????????????? ??????? (N*on-Destructive Testing* equipment) ???????????? ?? ????? ??????? ??????.

?? **W-M-250 Manual Test Hammer** ????? ?? ??????? ??????????? ??? James ??? ??? ?? ???????????? ?????? ??? ??????????? ???????????? ??? ???????????????? ?????? ???? ???.

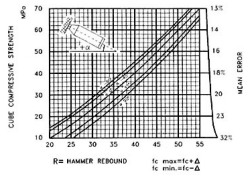
?????? ??? ?????, ????????? ??? ????????? ????????? ???? ???? ??? ??????? ????? ??? ??? ????? ???????? ??? ??????? ?? ????? ??? ????????????. ???????? ???? ??????? ??? ?????? ?? ???????????? ????? 1400 PSI (10 MPa) ??? ??????? ??????? ??? 9000 PSI (62 MPa). ??????????? ??? ??? ?? ?????????? (Rebound hammers) ??????? ??? ??????????? ?????????? ??? ???????????? ??? ??????? ?? ??? ???? ??? ?????????? (rebound number) ??????? ? ????????? ?? ??? ?????? ?? ????? ??? ????????????.

? ??????????? ?????????????? ??? ????????? ??? ???????????????? (coefficient of variation) ????? ??????? ??????? ??? ??'???? ?? ?????? ?? ??????? ?????????? ??? ????????? ??? ?? ????? ???????? ?.?. ????????, ???????.

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[??????? ????????]


CUBE COMPRESSIVE STRENGTH
MPa
70
60
50
40
30
20
10
13%
14
16
18%
20
23
32%
MEAN ERROR
20 25 30 35 40 45 50 55
R= HAMMER REBOUND
fc max=fc+Δ
fc min.=fc-Δ