

METHOD OF INSTALLATION OF SCREWED PILE, METHOD OF PRODUCTION OF
GROUP OF PILES, GROUP OF PILES, INSTALLATION MANAGEMENT APPARATUS
OF SCREWED PILE, AND INSTALLATION MANAGEMENT SYSTEM
OF SCREWED PILE

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ABSTRACT OF THE DISCLOSURE

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The present invention has as its object the provision of a method of installation of a
screwed pile able to prevent failure of the screwed pile. The method of installation of a screwed
pile of the present invention comprises, when driving a screwed pile provided with a blade into
the ground, a measurement step of measuring pile information including an amount of
15 displacement of the screwed pile and a rotational torque of the screwed pile while screwing the
screwed pile into the ground, a comparison step of judging normality or abnormality of a pile
body from a relationship of the rotational torque and misalignment based on preset threshold
values, and a control step controlling a condition of screw-in of the screwed pile based on the
pile information, the control step performing control based on results of the comparison step so
20 as to decrease the rotational torque of the screwed pile or stop or reverse rotation.

FIG. 4