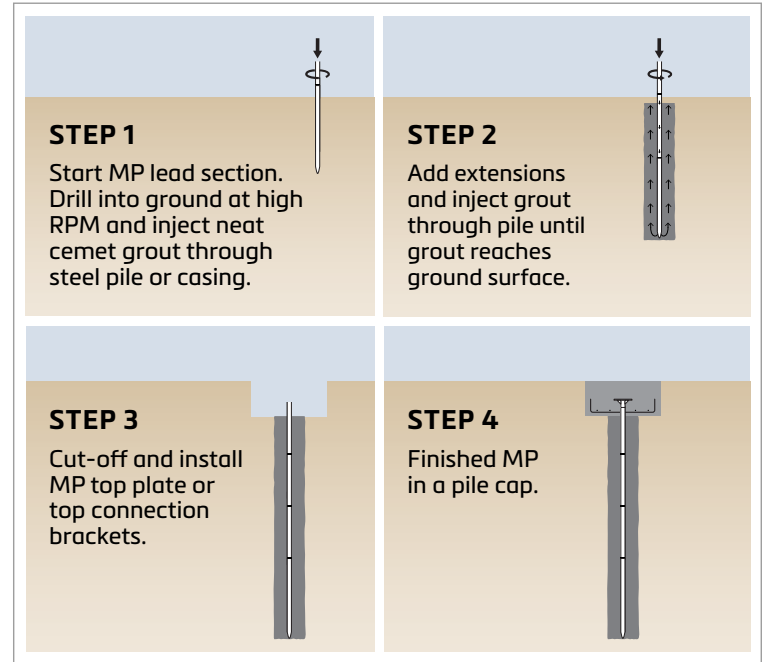


Micro Pile

Micro Pile (MP) is a small diameter, high strength, manufactured steel, component pile solution. MP are drilled and screwed into the ground to develop bearing and tension resistance for the support of foundations. MPs can be installed quickly in virtually all ground using small mobile drilling equipment and produces low noise and no vibrations.

MP obtains capacity at a deeper soil layer in bonding to competent soil or bearing on the helical plates and are often used for underpinning, temporary bracing of historic building walls, and new construction tilt panels. The MP can be installed with low headroom equipment, in tight access areas, and in new construction for foundation bearing and uplift forces. MP is a versatile, cost effective, foundation pile for supporting foundations, bracing, and retrofit/repair projects.



Installation

Micro Pile (MP) offers high capacity, tight access, deep foundation support with nearly instant force resistance after installation. MP is used for seismic retrofit, support new foundations, upgrade old foundations, add capacity to existing foundations, arrest settlement of foundations, and help lift a foundation as the structure will allow.

MP are high capacity, small diameter, structural piles, commonly 4 to 12-inches in diameter. MP are drilled and injected with grout during installation leaving a grouted steel casing or threaded bar in the ground. MP can be drilled into all ground conditions with adaptable mobile drill rigs. They are usually bonded into competent rock or very stiff soil to achieve capacity.

Once the design depth and installation torques are reached the MP are cut off and a load bearing plate or new construction bracket is attached. Full-scale load tests to 200% confirm design bearing and uplift capacity.

Menard uses mobile drill rigs, excavators, and compact track loaders equipped with a drill to install MP. These piles are commonly installed to depths of 15 to 100-feet with capacities ranging from 25 to 250 kips.

Applications

Micro Pile (MP) are designed for projects where space and access are limited. They can be installed using small equipment, making them ideal for tight access areas and challenging job sites. This capability makes DPP an excellent choice for repair and retrofit applications where larger rigs cannot operate.

The installation process creates minimal site impact, helping maintain surrounding conditions and reducing disruption to existing structures. Additionally, MP produces no vibrations during installation, which is critical for sensitive environments or sites near occupied buildings.

Every MP installation meets IBC and CBC compliance standards, ensuring structural integrity and adherence to building codes. These features make MP a versatile and reliable solution for foundation support in complex or constrained conditions.