

ADMK[®]

Permanent Steel Casing for Deep Foundations

THE TECHNICAL DATA SHEET

Manufactured by

HULKO[®] Steel Pipe Technology



01

HIGH
DURABILITY

02

STRENGTH
& RELIABILITY

03

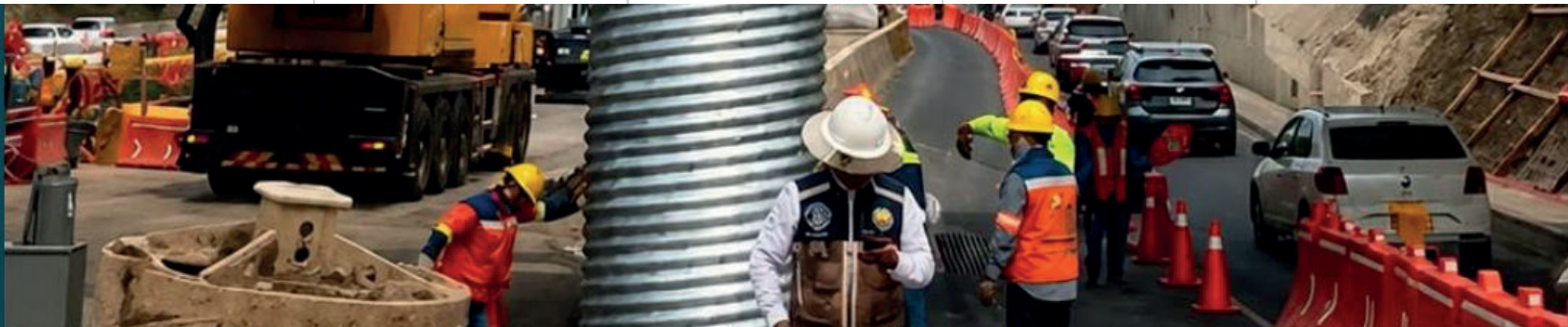
EASY
INSTALLATION

04

LOW LIFE-
CYCLE COST

05

SUSTAINABILITY
& EFFICIENCY



ADMK®

Permanent Steel Casing for Deep Foundations

PRODUCT OVERVIEW

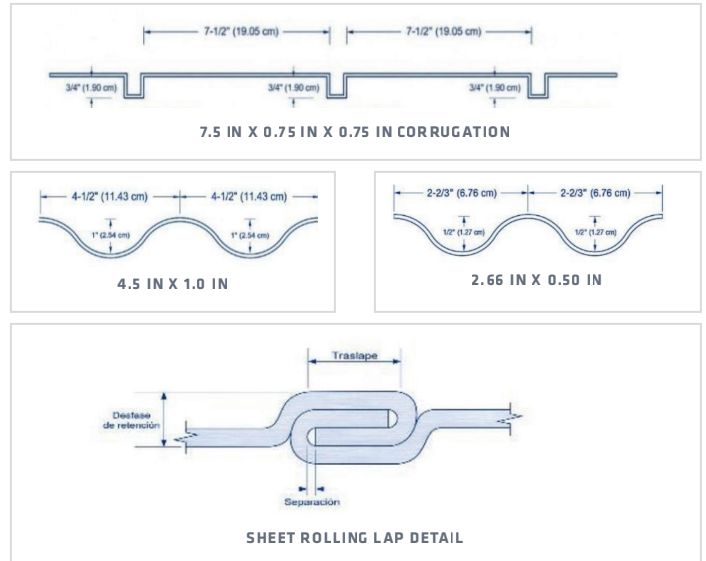
ADMK® steel pipe is one of the most innovative construction systems for drilled-shaft foundations using permanent casing, providing an efficient and economical construction process.

ADMK® is a steel pipe that provides a solution for deep foundation systems. Its Manning roughness coefficient of 0.012 helps optimize concrete flow during placement, with low head losses, high structural strength, and light weight that facilitates installation. Pipe manufacturing in diameters up to 120 inches (3.05 m) and standard lengths of 40 feet (12.20 m) makes it a suitable option for infrastructure, highway, railway, and building projects.



MANUFACTURING

ADMK® pipe is manufactured through a continuous cold helical-forming process. It is made from galvanized steel sheet with 7-1/2 in x 3/4 in x 3/4 in corrugation. In addition, 4-1/2 in x 1 in and 2-2/3 in x 1/2 in corrugations are available as alternatives with greater structural capacity.



STANDARDS

MANUFACTURING COMPLIES WITH

AASHTO M36 | ASTM A760 | AASHTO Section 12 | ASTM A796

CERTIFIED RAW MATERIAL

AASHTO M218 | AASHTO M246 | AASHTO M274 | ASTM A762

ASTM A929

INSTALLATION PROCESS

AASHTO Section 26 | ASTM A798

120 in

MAXIMUM DIAMETER
(3.05 M)

40 ft

STANDARD LENGTH
(12.20 M)

0.012

MANNING ROUGHNESS
COEFFICIENT

Welded

FILLER-METAL JOINTS FOR
STRUCTURAL CONTINUITY

Manufactured by

HULKO® Steel Pipe Technology

JOINTS AND COMPLIANCE

The connection between pipe sections is made by welding with filler metal, ensuring structural continuity. The pipe is manufactured in Mexico and complies with Article 30 of the Public Works and Related Services Law.

FEATURES

- Stabilizes the drilled shaft excavation
- Prevents sloughing of unconsolidated surface soils
- Prevents leakage of placed concrete
- Helps prevent subsurface contamination
- Lightweight material
- Fast and easy installation
- High durability

MECHANICAL PROPERTIES

MODULUS OF ELASTICITY

$$E_y = 2,040,000 \text{ kg/cm}^2 \mid 29,000,000 \text{ lb/in}^2$$

YIELD STRENGTH

$$F_y = 2,320 \text{ kg/cm}^2 \mid 33,000 \text{ lb/in}^2$$

TENSILE STRENGTH

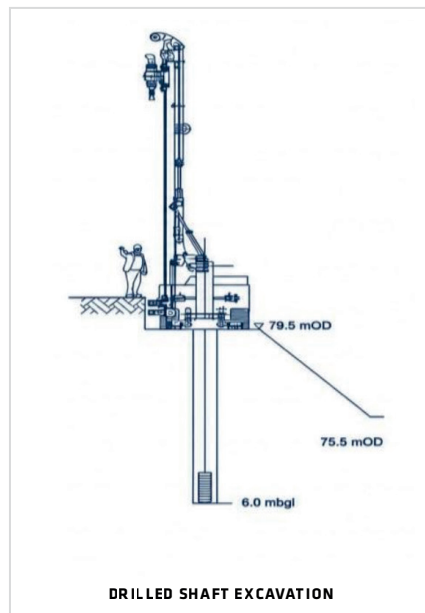
$$F_u = 3,164 \text{ kg/cm}^2 \mid 45,000 \text{ lb/in}^2$$

CONSTRUCTION PROCESS

The use of ADMK® pipe as permanent foundation casing requires a simple construction process.

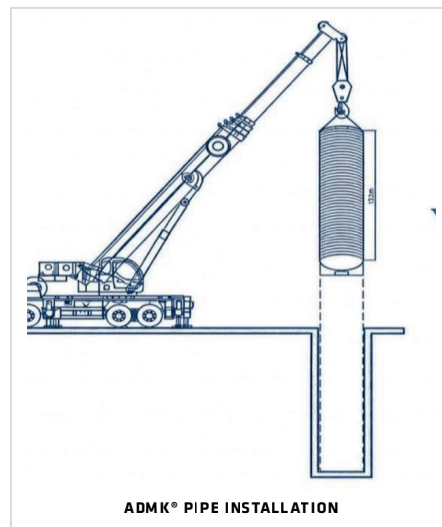
1

The drilled shaft is excavated using the conventional method.



2

ADMK® pipe is installed vertically to stabilize the excavation and prevent soil sloughing.

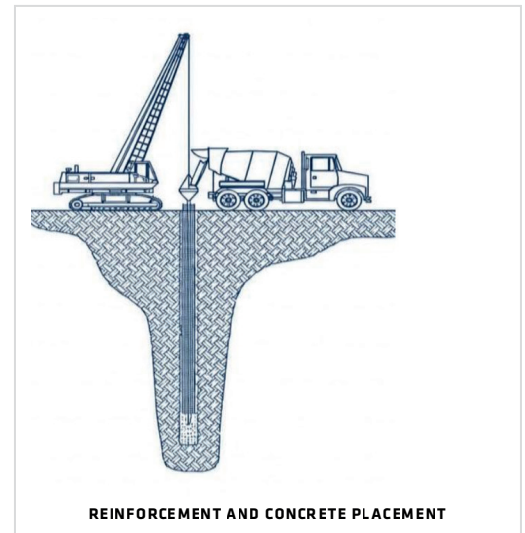


3

Reinforcing steel specified in the structural design is installed.

4

Concrete is placed through a tremie pipe.



APPLICATIONS

INFRASTRUCTURE

HIGHWAYS

RAILWAYS

BUILDING PROJECTS

Values and standards shown are nominal and subject to change without notice. Confirm project-specific requirements, diameters, gauges, and corrugation profiles with TDR Pipe technical services before specifying.

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