

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6428 (1972): Specification for pile frame [MED 18:
Construction Plant and Machinery]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



IS : 6428 - 1972

Indian Standard
SPECIFICATION FOR
PILE FRAME

UDC 624.155.072.33



© Copyright 1972

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 1

Price Rs 1.50

July 1972

Indian Standard

SPECIFICATION FOR PILE FRAME

Construction Plant and Machinery Sectional Committee, BDC 28

Chairman

MAJ-GEN J. S. BAWA

Representing

Directorate General, Border Roads, New Delhi

Members

SHRI W. BARRETO	Tractor Engineers Limited, Bombay
SHRI S. R. SUBRAMANIAM (Alternate)	
SHRI P. N. BHASKARAN NAIR	Railway Board (Ministry of Railways)
SHRI G. K. MATHUR (Alternate)	
SHRI M. O. DANANI	Khandelwal Udyog Ltd, Bombay
SHRI S. DATTA	Greaves Cotton & Co Ltd, Bombay
SHRI I. S. LALJEE (Alternate)	
SHRI N. S. GILL	Punjab Agro-industrial Corporation Ltd, Chandigarh
BRIG P. N. KAPOOR	Ministry of Defence (R & D)
LT-COL A. C. MOHAN (Alternate)	
SHRI B. KARMARKAR	Hindustan Construction Co Ltd, Bombay
SHRI J. P. KAUSHISH	Central Building Research Institute (CSIR), Roorkee
SHRI J. S. SHARMA (Alternate)	
SHRI S. Y. KHAN	Killick, Nixon & Co Ltd, Bombay
SHRI A. MEHRA (Alternate)	
SHRI S. KRISHNAN	Directorate General of Supplies & Disposals
SHRI N. KUMAR	Heatly and Gresham Ltd, Calcutta
SHRI V. GULATI (Alternate)	
SHRI A. S. KURPAD	Central Water & Power Commission
SHRI J. C. MALHOTRA	Beas Project, Talwara Township
SHRI R. K. MALHOTRA (Alternate)	
SHRI M. R. MALYA	Burmah Shell Oil Storage & Distributing Co of India Ltd, Bombay
DR B. S. BASSI (Alternate)	
MAJ-GEN O. M. MANI	Bharat Earth Movers Ltd, Bangalore
COL G. K. GOKHALE (Alternate)	
SHRI G. C. MATHUR	National Buildings Organization, New Delhi
ASSISTANT DIRECTOR (MECH) (Alternate)	
SHRI M. A. MEHTA	The Concrete Association of India, Bombay
SHRI Y. K. MEHTA (Alternate)	
SHRI Y. G. PATEL	Builders Association of India, Bombay
SHRI H. J. SHAH (Alternate)	
SHRI A. K. SEN	Directorate General of Technical Development
SHRI B. M. SEN	Central Mechanical Engineering Research Institute (CSIR), Durgapur
SHRI H. A. SIDDIQI (Alternate)	

(Continued on page 2)

IS : 6428 - 1972

(Continued from page 1)

<i>Members</i>	<i>Representing</i>
SHRI G. K. SETHI	William Jacks & Co Ltd, Calcutta
SHRI A. K. DASGUPTA (<i>Alternate</i>)	
SHRI M. R. SOORMA	Chief Inspectorate of General Stores, Kanpur
SHRI K. P. SINGH (<i>Alternate</i>)	
SUPERINTENDING ENGINEER, DELHI	Central Public Works Department
CENTRAL ELECTRICAL CIRCLE, No. III	
EXECUTIVE ENGINEER (ELECTRICAL), MECHANICAL & WORKSHOP DIVISION (<i>Alternate</i>)	
PROF C. G. SWAMINATHAN	Central Road Research Institute (CSIR), New Delhi
BRIG TARLOCHAN SINGH	Engineer-in-Chief's Branch, Army Headquarters
SHRI H. S. SATHYANARAYANA (<i>Alternate</i>)	
SHRI N. H. TAYLOR	Recondo Private Ltd, Bombay
SHRI T. H. PESHORI (<i>Alternate</i>)	
SHRI P. K. THAKUR	Roads Wing (Ministry of Transport & Shipping
SHRI G. VISWANATHAN (<i>Alternate</i>)	
SHRI N. S. VISWANATHAN	Marshall Sons & Co Mfg Ltd, Madras
SHRI B. V. K. ACHAR (<i>Alternate</i>)	
SHRI D. AJITHA SIMHA, Director (Civ Engg)	Director General, ISI (<i>Ex-officio Member</i>)

Secretary

SHRI Y. R. TANEJA
Deputy Director (Civ Engg), ISI

Indian Standard

SPECIFICATION FOR PILE FRAME

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 14 February 1972, after the draft finalized by the Construction Plant and Machinery Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 This standard has been prepared to guide manufacturers and designers in production of pile frames to certain standardized parameters and to provide for the increase in the height of the frame in uniform steps.

0.3 Standard sizes of pile frames will assist the user in determining the type and size of pile frame that he may procure and to plan his project accordingly. This will further assist in the replacement of pile frame in case one in use is damaged and cannot be used for want of spares. The designers and manufacturers may use their ingenuity to evolve improved designs (within the sizes given) which may prove more economical in the long run.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard..

1. SCOPE

1.1 This standard specifies heights of pile frame and the minimum weight of hammer and the pile that the frame shall be able to take safely.

2. TERMINOLOGY

2.1 For the purpose of this standard, the definitions given in IS : 6427-1972† shall apply.

3. SIZE

3.1 The size of the pile frame shall be designated by its height and the weight of the hammer and the pile it can take.

*Rules for rounding off numerical values (*revised*).

†Glossary of terms relating to pile driving equipment.

3.1.1 The pile frame shall be as per the sizes given in Table 1.

TABLE 1 SIZES OF PILE FRAME

SIZE	HEIGHT OF PILE FRAME	WEIGHT OF HAMMER (ANY TYPE), <i>Max</i>	WEIGHT OF PILE (ANY TYPE), <i>Max</i>
(1)	(2)	(3)	(4)
	m	t	t
I	7.5	1.5	3
II	10.5	3	6
III	15	5	10
IV	20	6	12
V	25	6	12

4. EXTENSION PANELS

4.1 All pile frames shall be capable of being fixed with extension panels of 1.5, 3 and 4.5 m height without reduction in weight capacity.

5. PERFORMANCE

5.1 Pile frames with or without extension panels shall be capable of placing piles at the maximum backward rake 1 in 5 and the maximum forward rake 1 in 10.

PUBLICATIONS OF INDIAN STANDARDS INSTITUTION

INDIAN STANDARDS

Over 6 500 Indian Standards covering various subjects have been issued so far. Of these, the standards belonging to the Civil Engineering Group fall under the following categories:

Aggregates, concrete	Modular co-ordination
Apparatus for testing cement and concrete	Multi-purpose river valley projects
Asbestos cement products	Pipes
Bricks and blocks	Planning, regulation and control
Builder's hardware	Plaster, paint and allied finishes
Cement	Plywood and allied products
Concrete design and construction	Poles
Concrete testing	Pezzolanas
Construction equipment	Reinforcement, concrete
Construction practices	Roof and roof coverings
Doors and windows	Safety in construction
Drawing office practice and equipment	Sieves and wire gauzes
Fire fighting equipment	Soil engineering
Fire safety	Stones, building
Flexible floor coverings	Structural design
Floor finishes	Tar and bitumen
Fluid flow measurement	Tiles
Fluid flow measuring instruments	Timber
Foundation engineering	Timber design and construction
Functional design of buildings	Timber stores
Furniture	Wall and ceiling finish
Gypsum products	Waterproofing and damp-proofing
Lime, building	Water supply, drainage and sanitation
Loading standards, structural safety	Water supply, sanitation and drainage fittings
Measurement and estimation of civil engineering	Wood-based materials
	Unclassified

OTHER PUBLICATIONS

ISI Bulletin (Published Every Month)						
Single Copy	...	...	...	...	...	Rs 3-00
Annual Subscription	...	...	...	...	...	Rs 25-00
Standards: Monthly Additions						
Single Copy	...	...	...	...	...	Rs 0-30
Annual Subscription	...	...	...	...	...	Rs 3-00
Annual Reports (from 1948-49 Onwards )			...	...	...	Rs 2-00 to 5-00
ISI Handbook, 1972	...	...	...	...	...	Rs 20-00

INDIAN STANDARDS INSTITUTION

Manak Bhaven, 9 Bahadur Shah Zafar Marg, New Delhi 1

Telephone : 27 01 31 (20 lines)

Telegrams : Manaksanstha

Branch Offices:

'Sadhna' Nurmohamed Shaikh Marg, Khanpur
F Block, Unity Bldg, Narasimharaja Square
534 Sardar Vallabhbhai Patel Road
5 Chowringhee Approach
5-9-201/2-A (First Floor), Chirag Ali Lane
117/418 B Sarvodaya Nagar
54 General Palters Road

Telephone

Ahmedabad 1 2 03 91
Bangalore 2 2 76 49
Bombay 7 35 69 44
Calcutta 13 23-08 02
Hyderabad 1 5 34 35
Kanpur 5 82 72
Madras 2 8 72 78