



PHU MY ENGINEERING JOINT STOCK COMPANY

**PMEC**

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# CATALOGUE

## PMEC STRESSING SYSTEM

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KING PALACE - HA NOI

## ABOUT US

Having established in 2007, PHU MY Engineering & Construction Joint Stock Company (PMEC) is very proud as the first Vietnam professional company in applying the post tensioning design and construction for building and industrial projects.

We dedicate our best efforts to promote the application of the latest techniques and state-of-the-art of the construction industry in Vietnam to best serve the community benefit by minimizing the construction cost and schedule while still maximizing the project quality.

To achieve this mission, our experienced staffs with enthusiastic spirit working towards the "Best efforts for clients' interests" always commit to deliver the highest added value services to our esteemed clients.

A significant milestone is achieved in successfully researching and producing the post tensioning products of PMEC post tensioning system including: PMEC lived-end anchorages, duct, tendon chair and other equipment for the post tensioning installation.

The PMEC anchorage system was granted the Industrial Design Patent by the Vietnam Intellectual Property Bureau under the Ministry of Science and Technology according to the Decisions number 1118w/QĐ-SHTT and 1127w/QĐ-SHTT dated January 28, 2021.



D' EDGE THAO DIEN - HCM CITY

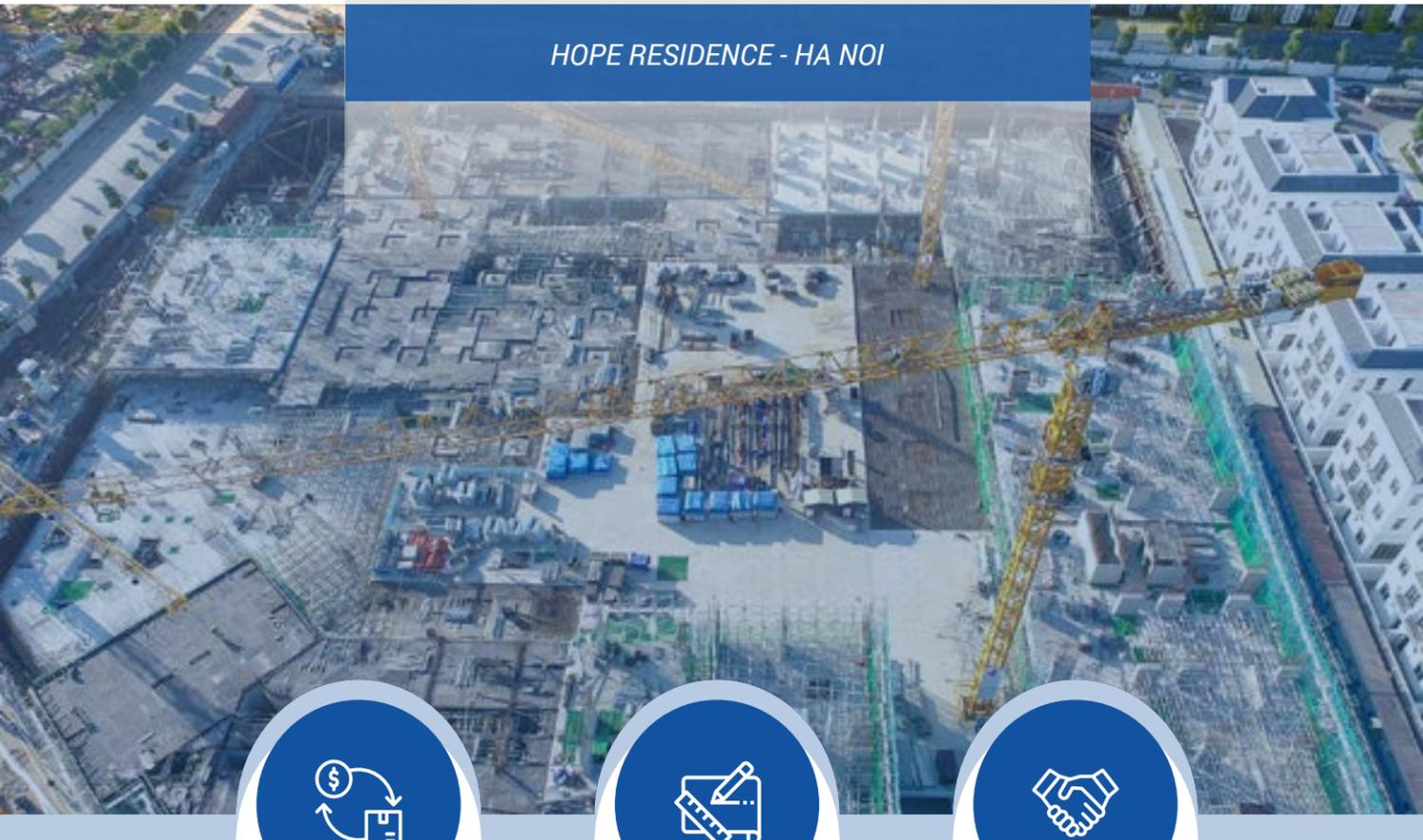
PMEC anchorage is a part of a synchronizing PMEC post tensioning system and complying with European standards of BS 4447 and BS EN 13391. The anchorage products are also well performed according to European ETAs of ETAG 013/ EAD 160004. Our products were successfully applied in various post tensioning projects in Vietnam.

# FIELD OF ACTIVITIES

PMEC has successfully inherited, applied and developed the latest knowledge of post tensioning field of design & construction of post tensioning solution for building & industrial projects.

On that basis, PMECC is continuing all improvements for our services and products to develop the company in its core business fields:

HOPE RESIDENCE - HA NOI



PRODUCTION AND TRADING



POST TENSIONING DESIGN & CONSTRUCTION

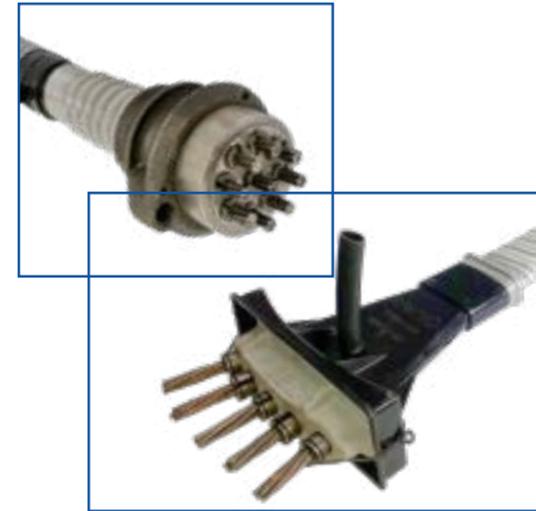


STRUCTURAL ENGINEERING



## PRODUCTION AND TRADING

PMEC continue to extend its production of mechanical products of PMECC system for post tensioning field in Vietnam and overseas markets. The most important part of PMECC system is the lived-end anchorages those are suitable for most popular post tensioning application.



## POST TENSIONING DESIGN & CONSTRUCTION

Since 2007 till now, we have accumulative experiences over 300 projects in Vietnam and neighbor countries. We target to become the leading post tensioning firm in Vietnam.

HACOM GALACITY - NINH THUAN

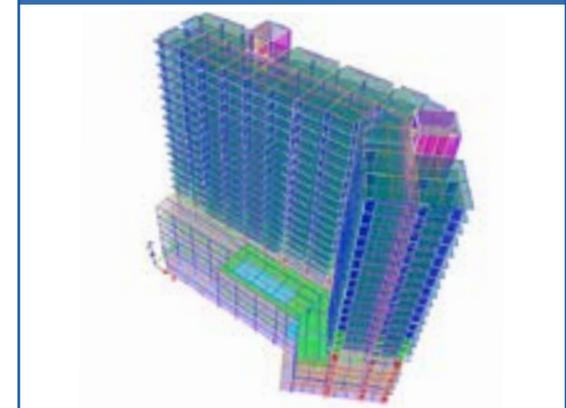


## STRUCTURAL ENGINEERING

Design & Engineering services provided by PMECC are always meet clients' requirement in terms of budget, schedule and quality. In any design/ engineering projects we always discuss thoroughly with our clients to formulate the most suitable specification for the project and set the budget in early stage. Our design focuses on the specification, budget, schedule and quality to satisfy clients' high requirements.

PMECC has implemented and completed many large-scale projects in Vietnam as structural engineering consultants or architect (via PMAC). We are able to provide our esteemed clients full scope design/engineering services, peer review for industrial and building projects. Our design professional licenses could be verified in the Ministry of Construction Website.

APARTMENT - TP. HCM



# CERTIFICATES

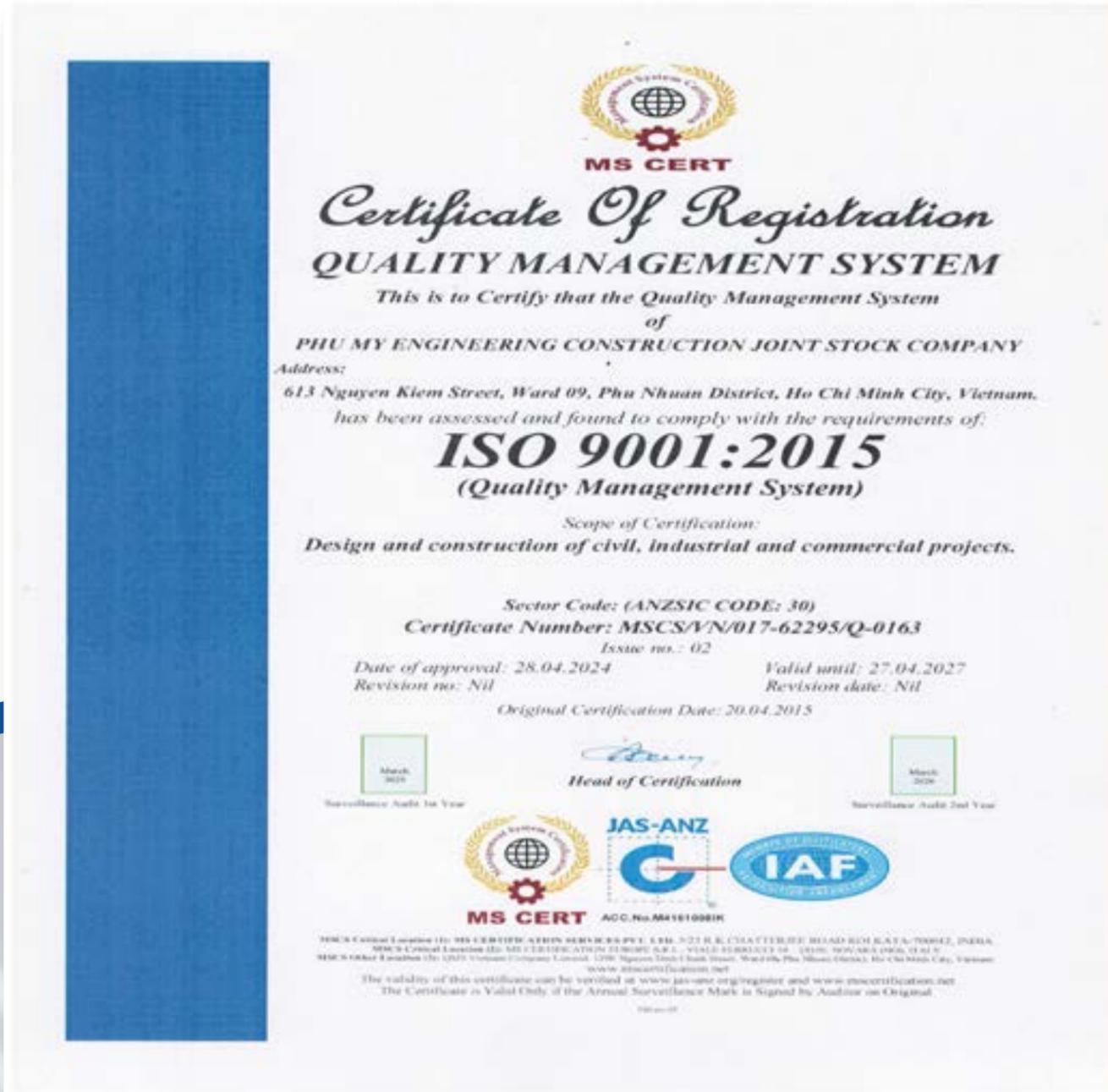


**BUSINESS LICENSE**



**CERTIFICATE OF CONSTRUCTION  
ACTIVITY CAPABILITY**

# CERTIFICATES



**CERTIFICATE OF APPROVAL  
ISO 9001:2015**



**CONFORMS TO STANDARD  
BS 4447:1973**

# PMEC ANCHORAGE SYSTEM



BW CU CHI - HCM CITY



## GENERAL INTRODUCTION

The tendon anchorage is very important in post tensioning concrete structure since it holds the stress in the tendon and transfer this pre-stress to the concrete. The anchorage plays the decisive role in maintaining the structure life cycle.

This is the reason why professional post tensioning firms in the world has developed their owned anchorages for their owned system to assure the quality.

The main objectives in developing the owned anchorages is to make sure the stressing work is well controlled to minimize the stress loss and potential errors of the post tensioning crew since each system requires different detailed method and accessories tools & equipment. This is to make sure the pre-stress is according to the design as well as the structure sustainability.



Anchorage head - 2 holes



Anchorage head - 3 holes



Anchorage head - 4 holes



Anchorage head - 5 holes



Anchorage head - Round type



LAVITA CHARM - HCM CITY

*PMEC post tensioning system is suitable for all concrete structures of building, industrial and civil projects.*



EUROPEAN TECHNICAL ASSESSMENT  
POST-TENSIONING SYSTEMS

[www.eota.eu](http://www.eota.eu)

The PMEC anchorage system was granted the Industrial Design Patent by the Vietnam Intellectual Property Bureau under the Ministry of Science and Technology according to the Decisions number 1118w/QĐ-SHTT and 1127w/QĐ-SHTT dated January 28, 2021. exclusive certification.

#### CODES & STANDARDS COMPLIANCE

- ✓ PMEC anchorage is a part of a synchronizing PMEC post tensioning system and complying with European standards of BS 4447 and BS EN 13391 and the requirement of American ACI 318 standards.
- ✓ The anchorage products are also well performed according to European ETAs of ETAG 013/ EAD 160004. Our products were successfully applied in various post tensioning projects in Vietnam.

#### STANDARDIZE, SPECIFICATION AND CONVENIENCE

- ✓ The anchorages are synchronized with equipment, tool and accessories to assure the quality of stressing work and minimize the stressing loss. The anchorage complies with 12.7mm and 15.24 mm strands.
- ✓ The trumpet and pocket former made by the plastic or recycle plastic: suitable for green projects in terms of using the recycle material.
- ✓ The horseshoe design helps in distribute the concentrated stress to the bearing plate and to the concrete structure.
- ✓ Easy in installation and transportation.

# APPLICATION OF PMEC ANCHORAGE SYSTEM



## 1 APPLICATION IN BUILDING AND INDUSTRIAL PROJECTS

Suitable for all building and industrial projects with optimum cost, schedule and functions. PMEC anchorages include the flat type of 2 holes – 5 holes for the slab structure application. The multi-strand type from 6-31 holes used for transferred beams or slabs.



## 2 TRANSPORTATION PROJECTS

The multi-strand type from 6 – 31 holes is used for girders while the flat type is used in bridge slabs.



## 3 FOUNDATION WORKS

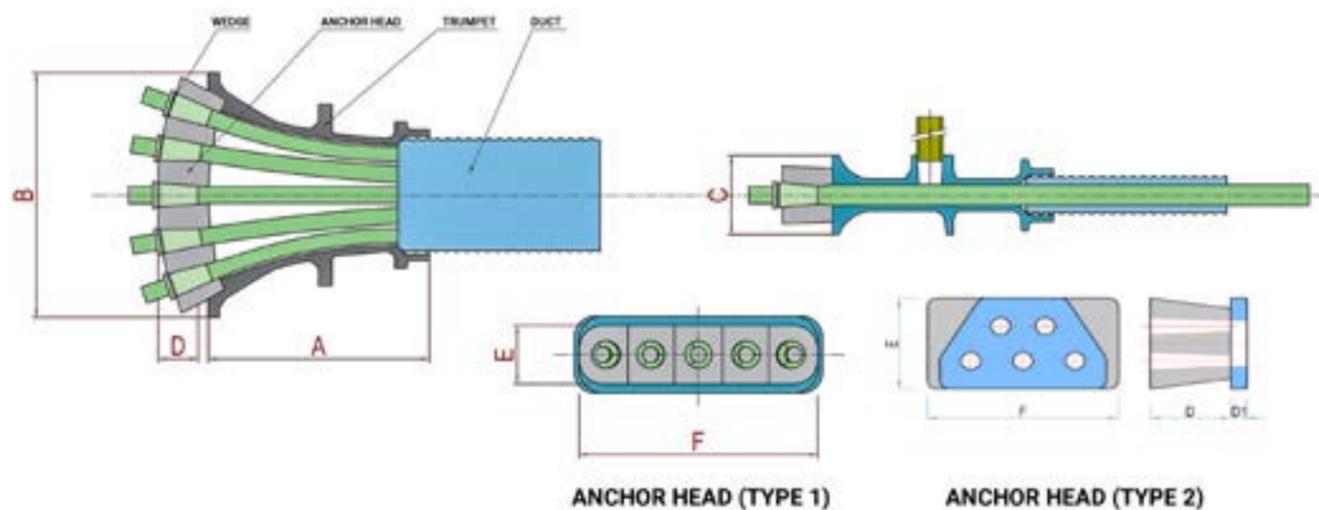
The anchorages could be used in ground anchor projects such as basement walls or similar retaining wall projects.







# FLAT ANCHORAGE



3A-3B Tôn Đức Th

12.7mm Cable						
Type	Trumpet dimension			Anchorage head dimension		
	A	B	C	D	E	F
PT205	214	183	99	46	75	132
PT305	214	183	99	46	75	155
PT405	247	205	99	46	75	178
PT505	263	250	99	46	75	222

15.24mm Cable						
Type	Trumpet dimension			Anchorage head dimension		
	A	B	C	D	E	F
PT206	214	183	99	52	75	154
PT306	247	205	99	52	75	178
PT406	263	250	99	52	75	222
PT506 (T1)	310	280	99	52	75	253
PT506 (T2)	285	212	120	52 / 12	100	193

**ANCHORAGE HEAD - 2 HOLES**

**ANCHORAGE HEAD - 3 HOLES**

**ANCHORAGE HEAD - 5 HOLES (TYPE 2)**

**ANCHOR BEARING PLATE (TYPE 1)**



TOP

UNDERNEATH

TOP

UNDERNEATH

Top

Underneath

Top

Underneath



FRONT

SIDE

FRONT

SIDE

Front

Side

Front

Side

**ANCHORAGE HEAD - 4 HOLES**

**ANCHORAGE HEAD - 5 HOLES (TYPE 1)**

**ANCHOR BEARING PLATE (TYPE 2)**

**POCKET FORMER**



TOP

UNDERNEATH

TOP

UNDERNEATH

Top

Underneath

Top

Underneath



FRONT

SIDE

FRONT

SIDE

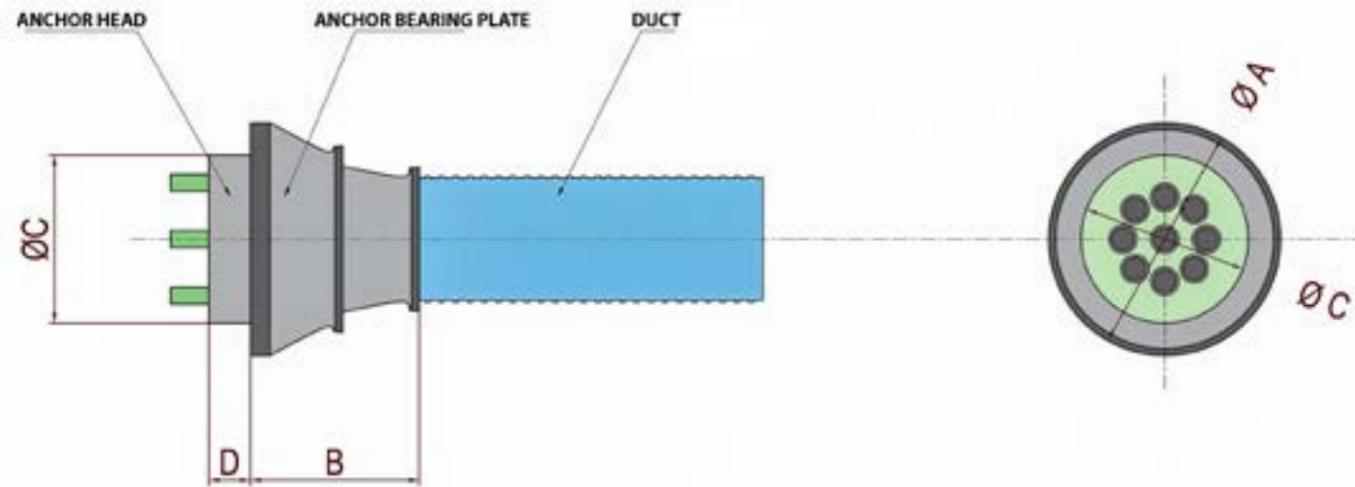
Front

Side

Front

Side

# ROUND ANCHORAGE



12.7mm CABLE				
Type	Anchor bearing plate dimension		Anchor head dimension	
	Round	Length	ØC (mm)	D (mm)
	A (mm)	B (mm)		
PT605	160	130	107	45
PT705	160	130	107	45
PT805	170	160	117	48
PT905	180	160	127	48
PT1005	200	180	137	50
PT1105	200	180	137	50
PT1205	210	190	147	50
PT1305	210	190	147	50
PT1405	210	210	157	52
PT1505	215	230	157	52
PT1605	245	240	167	55
PT1705	245	240	167	55
PT1805	245	270	176	65
PT1905	245	270	176	65

15.24mm CABLE				
Type	Anchor bearing plate dimension		Anchor head dimension	
	Round	Length	ØC (mm)	D (mm)
	A (mm)	B (mm)		
PT606	180	150	123	48
PT706	180	150	123	48
PT806	195	160	137	50
PT906	208	170	147	50
PT1006	220	180	158	52
PT1106	235	190	158	52
PT1206	235	190	158	54
PT1306	235	190	168	54
PT1406	250	210	178	56
PT1506	265	245	178	56
PT1606	275	265	188	60
PT1706	275	265	188	60
PT1806	285	280	198	65
PT1906	285	280	198	65

# DUCT

In the construction, the commonly used duct is a galvanized iron material, with a thickness of 0.25~0.3 mm. The size depends on the number of strand in the cable. However, in recent years, the galvanized iron duct has been progressively replaced by a plastic duct. Particularly in the construction market, which requires strict quality standards like Europe, almost all plastic duct in the construction of prestressed cables have been widely used, gradually replacing the iron duct.

Good quality and suitable duct will not be deformed, not open, not hinder the stretching process as well as corrode the cable in the long term; limits friction and stress loss during tension construction and helps the mortar to be filled to protect the cables, contributing to a longer and more sustainable construction.

## PMEC DUCT

**GALVANIZED IRON DUCT - FLAT TYPE**



**PLASTIC DUCT - FLAT TYPE**



**GALVANIZED IRON DUCT - ROUND TYPE**

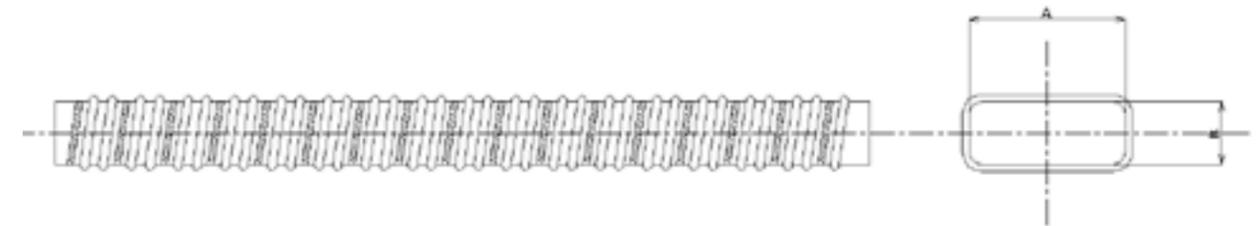


**PLASTIC DUCT - ROUND TYPE**



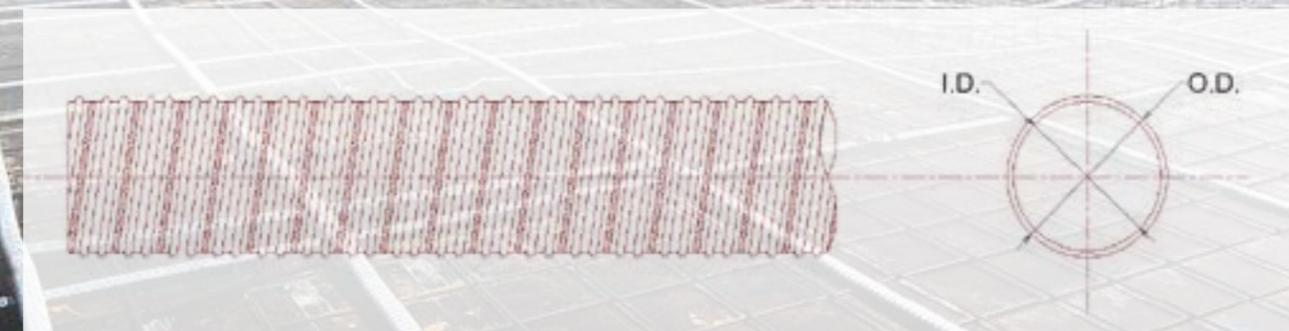
### SPECIFICATION OF FLAT DUCT

12.7mm			15.24mm		
Type	Dimension		Type	Dimension	
	B (mm)	A (mm)		B (mm)	A (mm)
PT205	20	50	PT206	20	50
PT305	20	60	PT306	20	60
PT405	20	70	PT406	20	80
PT505	20	80	PT506	20	90



### SPECIFICATION OF ROUND DUCT

Type	Dimension	
	I.D. (mm)	O.D. (mm)
6~7 holes	D70	D82
8~9 holes	D80	D94
10~13 holes	D90	D104
14~15 holes	D100	D114
16~19 holes	D110	D114
20~27 holes	D120	D136
28~31 holes	D130	D146



# MACHINERY, EQUIPMENT & ACCESSORIES



**MONO JACK**



**DEAD END ONION JACK**



**MULTI JACK**



**STAPLER GUN**



**BAR CHAIR**



**DEAD END ANCHOR CONNECTOR**



**STRAND PUSHER AND CUTTER**



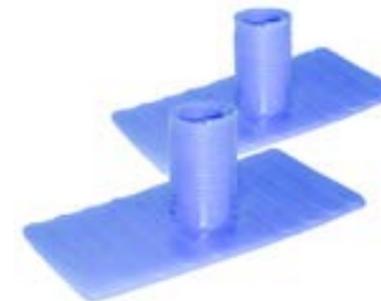
**HYDRAULIC PUMP**



**MORTAR PUMP**



**AIR COMPRESSOR**



**VALVE**



**PIPE**

# TYPICAL PROJECTS

After more than 15 years of establishment and development, PMEC has been always proud of its ability to manufacture and supply all kinds of materials and equipment for production, business and trade in the market in the field of PT construction.

Phu My has supplied and installed PMEC anchorage system for many large and small projects in different provinces of Vietnam. Notably, there are some typical projects such as:

- The Nexus - Ricons
- Topaz Home District 9 - Viet Phat
- Bw 15 Factory - An Phu Gia & I-Tech
- Southern Guest House - General Department of Logistics - Phuc Hung Holdings
- Hyatt Place Ha Long Bay Hotel - Ricons
- Toyota Kien Giang - Novacons
- Hacom Galacity - Van Lang
- Nhat Ha Hotel - Ricons
- New Far Eastern - ACSC
- Dong Nai Administrative Center - Bien Hoa Dong Nai Project Management Unit
- CT Plaza Nguyen Hong - C.T Group...

And many other projects are scattered from North to South.

## BW CU CHI - HCM CITY



TOPAZ HOME DISTRICT 9



FACTORY BW 15



THE NEXUS



HACOM GALACITY



NHAT HA HOTEL



NEW FAR EASTERN



DONG NAI ADMINISTRATIVE CENTER



CT PLAZA NGUYEN HONG



SOUTHERN GUEST HOUSE - GENERAL DEPARTMENT OF LOGISTICS

## TOPAZ HOME DISTRICT 9

50,000 m<sup>2</sup> | 17 floors - 4 Blocks



Project : TOPAZ HOME 2  
 Address : Tan Phu Ward, District 9, HCM City  
 Investor : Thuan Kieu Company và Van Thai Land  
 Main contractor : VIET PHAT INVESTMENT - TRADE COMPANY LIMITED  
 Item : Supply PMEC anchorage

### PROJECT SCALE

Total area : 50,000 m<sup>2</sup>  
 Number of floors : 04 Block, 17 floors  
 Number of PMEC anchor : > 3,500 anchorages: 03~05 holes (12.7mm)

## FACTORY BW 15

90,000 m<sup>2</sup> | 2 floors



Project : FACTORY BW 15  
 Address : Tan Phu Trung Industrial Park, Cu Chi, HCM City  
 Investor : SAIGON LOGISTICS INDUSTRIAL DEVELOPMENT LIMITED LIABILITY COMPANY  
 Main contractor : An Phu Gia & I-Tech  
 Item : Supply PMEC anchorage

### PROJECT SCALE

Total area : 90,000 m<sup>2</sup>  
 Number of floors : 02 floors  
 Number of PMEC anchor : > 2,837 anchorages: 04 holes (15.24mm)

# THE NEXUS

133,834 m<sup>2</sup> | 26-35 floors



Project : THE SUN TOWER  
 Address : Ton Duc Thang Street, Ben Nghe Ward, District 1, HCMC  
 Investor : RC Real Estate Financing Development JSC (Refico)  
 Main contractor : Ricons Construction Investment Group Joint Stock Company  
 Item : Supply PMEC anchorage

## PROJECT SCALE

Total area : 100,000 m<sup>2</sup>  
 Number of floors : 26-35 floors  
 Number of PMEC anchor : > 6,500 anchorages: 05 holes

# HACOM GALACITY

50,000 m<sup>2</sup> | 12 floors - 4 blocks



Project : HACOM GALACITY  
 Address : New urban area, North City. Phan Rang, Thap Cham, Ninh Thuan Province  
 Investor : Thanh Dong Ninh Thuan Joint Stock Company  
 Main contractor : Van Lang Co.,Ltd  
 Item : Supply PMEC anchorage

## PROJECT SCALE

Total area : 50,000 m<sup>2</sup>  
 Number of floors : 04 Blocks, 12 floors  
 Number of PMEC anchor : > 4,000 anchorages: 02 holes and 04 holes

# NHAT HA HOTEL

19,000 m<sup>2</sup> | 15 floors



Project : NHAT HA HOTEL  
 Address : Le Hong Phong Street, Dong Khe Ward, Ngo Quyen District, Hai Phong City  
 Investor : Hotels Nhat Ha Co.,Ltd  
 Main contractor : RICONS GROUP CONSTRUCTION INVESTMENT JOINT STOCK COMPANY  
 Item : Supply PMEC anchorage

## PROJECT SCALE

Total area : 19,000 m<sup>2</sup>  
 Number of floors : 15 floors  
 Number of PMEC anchor : > 978 anchorages: 02 holes và 03 holes

# NEW FAR EASTERN

60,000 m<sup>2</sup> | 3 floors



Project : FACTORY NEW FAR EASTERN  
 Address : D5 Street, Bac Dong Phu Industrial Park, Dong Phu District, Binh Phuoc Province  
 Investor : New Apparel Far Eastern Co., Ltd. (Vietnam)  
 Main contractor : ARCHITECTS & CONSTRUCTION SERVICE CORPORATION  
 Item : Supply PMEC anchorage

## PROJECT SCALE

Total area : 60,000 m<sup>2</sup>  
 Number of floors : 03 floors  
 Number of PMEC anchor : > 1,280 anchorages: 02 holes, 03 holes and 04 holes

## DONG NAI ADMINISTRATIVE CENTER

20,000 m<sup>2</sup> | 9 floors



Project : DONG NAI ADMINISTRATIVE CENTER  
 Address : H22, Vo Thi Sau Street, Thong Nhat Ward, Bien Hoa, Dong Nai Province  
 Investor : Project Management Board Bien Hoa, Dong Nai  
 Main contractor : Xuan Thanh Construction Development Co.,LTD & Phat Dat Co.,LTD  
 Item : Supply PMEC anchorage

### PROJECT SCALE

Total area : 20,000 m<sup>2</sup>  
 Number of floors : 09 floors  
 Number of PMEC anchor : 1,070 anchorages: 02 holes, 03 holes and 05 holes

## CT PLAZA NGUYEN HONG

40,000 m<sup>2</sup> | 17 floors



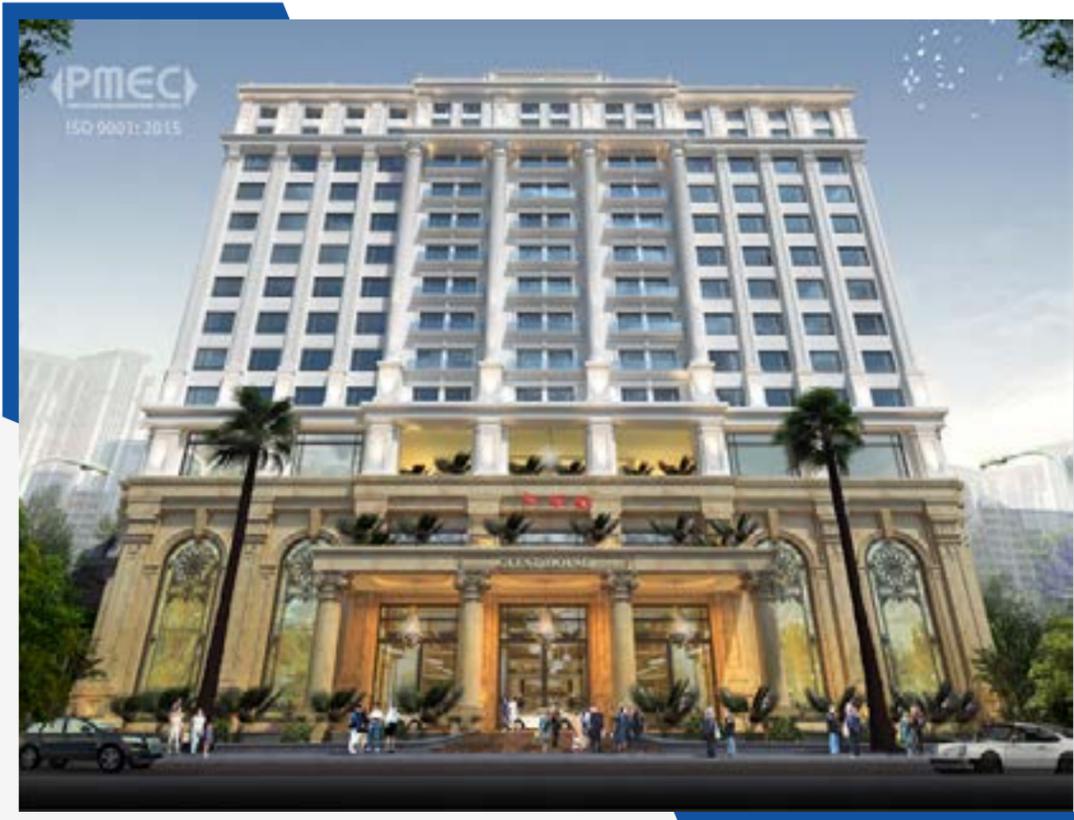
Project : CT PLAZA NGUYEN HONG  
 Address : No 18, Nguyen Hong Street, Ward 1, Go Vap District, HCM City  
 Investor : C.T Group Joint Stock Company  
 Main contractor : CRICONS GROUP CONSTRUCTION INVESTMENT JOINT STOCK COMPANY  
 Item : Supply PMEC anchorage

### PROJECT SCALE

Total area : 40,000 m<sup>2</sup>  
 Number of floors : 17 floors  
 Number of PMEC anchor : > 1,270 anchorages: 03~05 holes

# GUEST HOUSE GENERAL DEPARTMENT OF LOGISTICS - KHANH HOA

30,000 m<sup>2</sup> | 18 floors

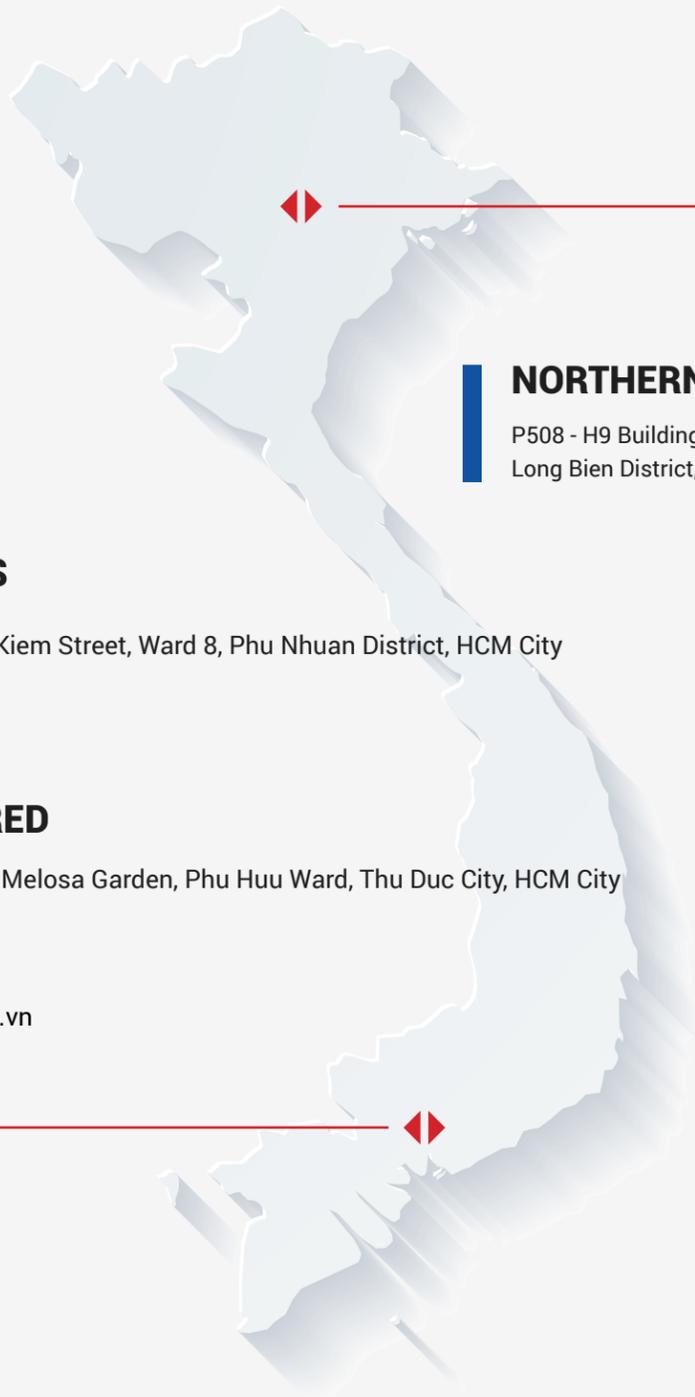


Project : Guest House General Department of Logistics - KHANH HOA  
 Address : Loc Tho Ward, Nha Trang City, Khanh Hoa Province  
 Investor : General Department of Logistics Khanh Hoa  
 Main contractor : Phuc Hung Holdings Construction Joint Stock Company  
 Item : Supply PMEC anchorage

## PROJECT SCALE

Total area : 15,069m<sup>2</sup>  
 Number of floors : 14 floors  
 Number of PMEC anchor : > 943 anchorage: 02 holes, 03 holes

# CONTACT



## NORTHERN OFFICE

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Long Bien District, Ha Noi City

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