

# CERTIFICATE OF PRODUCT CONFORMITY

Dubai Central Laboratory Department (DCLD) of Dubai Municipality  
hereby attests that the product(s)

**PEIKKO HPKM column shoes**

*(Details as per the attached Scope of Certification)*

*manufactured by:*

**PEIKKO GULF LLC**

**P.O. Box 86031 - Al Hamra Industrial Zone - RAS AL KHAIMAH, UAE**

*have been assessed in accordance with DCLD Document Ref. No. DM-DCLD-RD-DP21-2001 (IC) "General Rules for DM Third Party Product Certification Scheme Through Factory Assessment" and were found in conformity with the Technical Approval Requirements*

## TARR 151

*Accordingly, DCLD hereby authorizes the above manufacturer  
to affix the DCL Product Conformity Mark to the above-mentioned product(s).*



**for / ENGR. AMIN AHMED AMIN**

**Director, Dubai Central Laboratory Department  
Dubai Municipality**

**Certificate No: TAC18080151 REV.01**

**Valid Until: 15 May 2021**



**Current Issue Date: 07 December 2020**

**Original Issue Date: 16 May 2018**



*The attached Scope of Certification bearing the same Certificate No. forms an integral part of this Certificate.  
This Certificate is an electronic document, subject to the Terms and Conditions of the Product Certification System and shall not be reproduced except in full.*

**DM-DCLD-F-IC-8003 REV 04**

 GOVERNMENT OF DUBAI	<b>Organization/Unit:</b> إدارة مختبر دبي المركزي Dubai Central Laboratory Department	<b>الوحدة التنظيمية:</b> الوحدة التنظيمية:	 بلدية دبي DUBAI MUNICIPALITY
	<b>Document Title:</b> SCOPE OF TECHNICAL APPROVAL	<b>عنوان الوثيقة:</b> عنوان الوثيقة:	
	<b>Doc Ref.</b> DM-DCLD-F-IC-8007	<b>رقم الوثيقة :</b> رقم الوثيقة :	

## TECHNICAL APPROVAL CERTIFICATE NO. TAC18080151 REV.01

### 1. Company:

PEIKKO GULF LLC

### 2. Product Name:

PEIKKO HPKM column shoes

### 3. Manufacturer

PEIKKO GULF LLC

P.O. Box 86031 - Al Hamra Industrial Zone - RAS AL KHAIMAH, UAE

### 4. Scope of approval

- This scope of approval covers PEIKKO HPKM, COLUMN SHOES approved for tensile capacity of the column shoes of diameters rang and type as shown in table 1 using steel BS4449 grades 500B and Plates S355J2+N.

Column shoes can be corrosive protected for temporary conditions (warehousing, transportation and erection situation) by paint, electro-galvanizing or Hot-Dip Galvanizing.

Protection for temporary conditions can follow as per below instructions:

- Paint 30µm (EN ISO 12944)
- Electro galvanizing 25µm (ISO 2081)
- Hot-Dip Galvanizing requirements will follow the same as per below for permanent conditions

In case the column shoe bottom plate will be exposed in the final conditions after grout it should be Hot-Dip Galvanized.

Min average coating thickness of Hot-Dip Galvanizing should follow the standard instructions:

100µm (ASTM A123)

85 µm (EN ISO 1461)

In any case corrosion inhibitor admixture or additive to be added to the precast concrete

Approved by HOU	Authorized by PCASM
Date of Issue : 17/06/2020	Rev. No. : 02
General / عام : Level of Confidentiality / درجة السرية	Page 1 of 7

 GOVERNMENT OF DUBAI	<b>Organization/Unit:</b> إدارة مختبر دبي المركزي Dubai Central Laboratory Department	<b>الوحدة التنظيمية:</b> 	 بلدية دبي DUBAI MUNICIPALITY
	<b>Document Title:</b> SCOPE OF TECHNICAL APPROVAL	<b>عنوان الوثيقة:</b> 	
	<b>Doc Ref.</b> DM-DCLD-F-IC-8007	<b>رقم الوثيقة :</b> 	

## TECHNICAL APPROVAL CERTIFICATE NO. TAC18080151 REV.01

- Exclusions:**

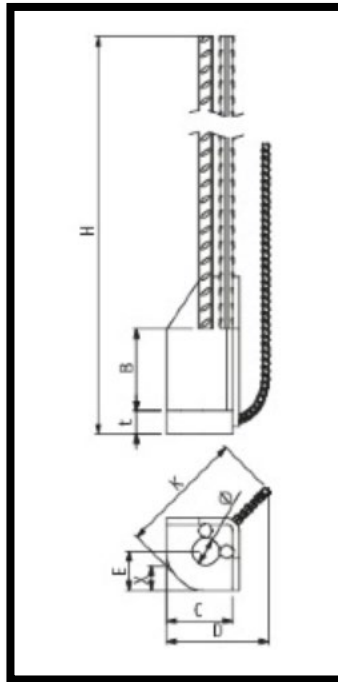
- 1) Types other than PEIKKO HPKM, COLUMN SHOES ***shall not be*** covered in the scope of this approval.
- 2) Size other than mention in table 1 ***shall not be*** covered in this scope of approval

### 5. Product description:

- Product Intended use**

PEIKKO HPKM, COLUMN SHOES together with anchor bolts is used for fixing concrete elements to each other such as prefabricated (precast) concrete columns to foundations.

PEIKKO HPKM COLUMN SHOES are connecting items, which allow moment stiff extensions and connections between prefabricated (precast) columns and foundations. HPKM are used for moderate loading conditions. See Annex A.



Approved by HOU	Authorized by PCASM
Date of Issue : 17/06/2020	Rev. No. : 02
General / عام : Level of Confidentiality / درجة السرية	Page 2 of 7

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي DUBAI MUNICIPALITY
	Document Title:	SCOPE OF TECHNICAL APPROVAL	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-F-IC-8007	رقم الوثيقة :	

## TECHNICAL APPROVAL CERTIFICATE NO. TAC18080151 REV.01

**Table 1: product dimension for HPKM COLUMN SHOES as declared by applicant**

HPKM COLUMN SHOES									
Type	B	C	D	E	H	K	t	X	ϕ
HPKM 16	85	75	115	50	725	135	15	30	28
HPKM 20	95	80	120	50	875	145	20	30	31
HPKM 24	105	85	125	50	1105	150	30	30	35
HPKM 30	120	90	140	50	1430	175	45	30	40
HPKM 39	150	110	180	60	1885	225	50	37	55

### • Product types

This Technical Approval Certificate covers only one type of column shoes, namely the PEIKKO HPKM column shoes

## 6. Identification/Labeling/Marking

Each product item as well as the packing containers shall be identified / labeled / marked to show the required basic information (manufacturer name , the product name ,the DCL Technical Approval mark) in Arabic and/or English language.

PEIKKO HPKM, COLUMN SHOES shall be identified as follows:

- The brand name
- The diameter as " Ø##".
- DCL TA mark TAC18080151
- Production date
- Batch number

Approved by HOU	Authorized by PCASM
Date of Issue : 17/06/2020	Rev. No. : 02
General / عام : Level of Confidentiality / درجة السرية	Page 3 of 7

*Note: Printed copy of this document shall be treated as 'Uncontrolled'. Always refer the controlled version Online.*

 GOVERNMENT OF DUBAI	<b>Organization/Unit:</b> إدارة مختبر دبي المركزي Dubai Central Laboratory Department	<b>الوحدة التنظيمية:</b> بلدية دبي DUBAI MUNICIPALITY
	<b>Document Title:</b> SCOPE OF TECHNICAL APPROVAL	<b>عنوان الوثيقة:</b> 
	<b>Doc Ref.</b> DM-DCLD-F-IC-8007	<b>رقم الوثيقة :</b> 

## TECHNICAL APPROVAL CERTIFICATE NO. TAC18080151 REV.01

Product characteristic declared is as follows :

Table 2

Property	Test method	Requirement
Tension Capacity	EN ISO 6892 - 1	As per table 3 annex A & failure far from the welding
Note: The verification shall be done for all steel diameters in the scope.		



### 7. Production quality control

The products shall be manufactured under an approved quality control program as shown in the internal quality inspection and testing plan shown in Annex A. The quality control program shall verify continued compliance with requirements shown in Table 3.

### 8. Conditions of Approval

This approval is granted only to "PEIKKO GULF LLC ", No other company, firm or person may hold or claim any entitlement to this Technical Approval.

This Technical Approval will remain valid for the period shown on the Approval Certificate provided that.

- The company complies with the requirements of this Technical Approval,

Approved by HOU	Authorized by PCASM
Date of Issue : 17/06/2020	Rev. No. : 02
General / عام : Level of Confidentiality / درجة السرية	Page 4 of 7

 GOVERNMENT OF DUBAI	<b>Organization/Unit:</b> إدارة مختبر دبي المركزي Dubai Central Laboratory Department	<b>الوحدة التنظيمية:</b>	 بلدية دبي DUBAI MUNICIPALITY
	<b>Document Title:</b> SCOPE OF TECHNICAL APPROVAL	<b>عنوان الوثيقة:</b>	
	<b>Doc Ref.</b> DM-DCLD-F-IC-8007	<b>رقم الوثيقة :</b>	

## TECHNICAL APPROVAL CERTIFICATE NO. TAC18080151 REV.01

- The characteristics of the products are unchanged,
- Continue to be checked by DM as per surveillance scheme mentioned hereinafter in this report.

In granting this Technical Approval, Dubai Municipality makes no representation to:

- The presence or absence of patent or similar rights subsisting in PEIKKO HPKM
- The legal right of "PEIKKO GULF LLC " to market PEIKKO HPKM, in the Emirate of Dubai.

The Technical Approval shall not be used in such manner as to bring Dubai Municipality into disrepute and "PEIKKO GULF LLC " shall not make any statement which Dubai Municipality may consider as misleading.

### 8.5 Surveillance

#### 8.5.1 Inspection and testing

Dubai Municipality maintains the right to inspect the factory and products at any time without prior notice and to collect samples from the products available at the client's factory, warehouses or at any building site within Dubai Emirate, for the purpose of verification and/or testing.

#### 8.5.2 Complaints

"PEIKKO GULF LLC " shall provide Dubai Central Laboratory (DCL) in writing with details of all records of complaints received whenever requested by DCL and shall keep records of such complaints for examination by Dubai Central Laboratory personnel.

- Cost of sampling and testing  
 "PEIKKO GULF LLC " shall bear the cost of sampling and testing of the products either at Dubai Central Laboratory (DCL) or at any other DCL approved laboratory. The testing laboratory may be any local, regional or international laboratory.

Failing to satisfy the conditions of this Technical Approval Certificate may be grounds for terminating the Technical Approval.

Approved by HOU	Authorized by PCASM
Date of Issue : 17/06/2020	Rev. No. : 02
General / عام : Level of Confidentiality / درجة السرية	Page 5 of 7

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي DUBAI MUNICIPALITY
	Document Title:	SCOPE OF TECHNICAL APPROVAL	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-F-IC-8007	رقم الوثيقة :	

TECHNICAL APPROVAL CERTIFICATE NO. TAC18080151 REV.01

## Annex A: Column shoes details

Table 3: *Design values of tensile or compressive resistances  $NR_d$  of individual HPKM COLUMN SHOES for concrete grade C30/37 as declared by applicant.*

Type of Column Shoe	Type of Anchor Bolt	$NR_d$ [kN]
HPKM 16	HPM 16	62
HPKM 20	HPM 20	96
HPKM 24	HPM 24	139
HPKM 30	HPM 30	220
HPKM 39	HPM 39	383

Figure 1 : HPKM - Column Shoes

Approved by HOU	Authorized by PCASM
Date of Issue : 17/06/2020	Rev. No. : 02
General / عام : Level of Confidentiality / درجة السرية	Page 6 of 7

Note: Printed copy of this document shall be treated as 'Uncontrolled'. Always refer the controlled version Online.

 GOVERNMENT OF DUBAI	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	 بلدية دبي DUBAI MUNICIPALITY
	Document Title:	SCOPE OF TECHNICAL APPROVAL	عنوان الوثيقة:	
	Doc Ref.	DM-DCLD-F-IC-8007	رقم الوثيقة :	

## TECHNICAL APPROVAL CERTIFICATE NO. TAC18080151 REV.01

NOTE 1: This document forms part of the Certificate of Technical Approval bearing the same Certificate Number.

NOTE 2: The above product shall bear the DCL Conformity Mark (applied on each product or on the packaging).

NOTE 3: Disclaimer: The Dubai Municipality - Dubai Central Laboratory Department shall not be held liable for any action (legal or otherwise) raised by any party on matters resulting from implementation of the Technical Approval.

NOTE 4: This scope superseded previous issued scope on 16 May 2020 to align with update form and certificate numbering.

Original Issue Date : 16 May 2018

Current Issue Date : 07 December 2020

Valid Until : 15 May 2021



ARIF HUSAIN AL MARZOOQI

Products Conformity Assessment Section Manager

Dubai Central Laboratory Department

Approved by HOU	Authorized by PCASM
Date of Issue : 17/06/2020	Rev. No. : 02
General / عام : Level of Confidentiality / درجة السرية	Page 7 of 7

Note: Printed copy of this document shall be treated as 'Uncontrolled'. Always refer the controlled version Online.