



TÜRK LOYDU

TYPE APPROVAL CERTIFICATE

This Certificate consists of 3 pages.

This is to certify that the

FIPRON STICKER

With type designations

Type 15, Type 25, Type 45, Type 60, Type P

Manufactured by

FPN YANGIN KORUMA SİSTEMLERİ VE ÜRETİM A.Ş.

Is found to comply with

"TL Rules, Part B, Chapter 4, Machinery July 2018".

Application : They are designed to prevent electric-based fires in the initial phase.

Design : FPN Yangın Koruma Sistemleri Ve Üretim A.Ş.

Sizes : See Second Page

Address of Manufacturer : Demirciler OSB Bölgesi No:17/1 Gerede / BOLU

Place and date : İSTANBUL, 14.06.2019

Subject to the conditions referred to in the following pages, this certificate is valid until 13.06.2024


Emrah SÖĞÜTÇÜ
New Building Division Manager



Product description: Fipron Sticker

Feature	Values				
	Type 15	Type 25	Type 45	Type 60	Type P
Product dimensions, mm (Length x Width x Thickness)	85x45x2	110x65x2	130x90x3	190x90x3	30x30x2
Maximum size tolerance, %	± 10				
Weight, grams	10 ± 1	21 ±2,5	50 ±3,5	73 ±6,0	2,6 ±0,2
Activation temperature, °C	120 ±10				
Stability (product performance over 60 months from date of manufacture)	The product must maintain its firefighting performance.				
<i>Extinguishing performance for fire</i>					
Extinguishing time from the moment of ignition, minute, maximum	2				
Burn-back time, minute, minimum	3	3	5	5	1
Color	Variable				
Protection Capacity Range, L	0,2-60				
Housing Temperature Range, °C	-50, +80				
Effective Fire classes	A, B				
Protection Class	IP 20				
Kinds of Selling	Package of 10 (P), single package (15, 25, 45,60)				

Type Designation : Type 15, Type 25, Type 45, Type 60, Type P

Materials used : To be referred to the approved drawing dated 21.05.2019.

Application/ Limitation (Approval conditions):

- This certificate is valid if the product is used only on TR domestic vessels and on naval ships.

Documentation : The design and construction drawings approved by Türk Loydu dated 21.05.2019 with TL RefNumber: PAE-EPAS/004060/19-0952/HM.

Test carried out (and results) :

Objective: To demonstrate the capability of the following extinguishing device to extinguish a fire.


Test Results: In the case of the "FIPRON P", "FIPRON 15" and "FIPRON 25" composite sticker, the tests have demonstrated the ability of the fire extinguishing device at a size of 30mm x 30mm, 85mm x 45mm and 110mm x 60mm respectively, to extinguish an internal fire when subjected to a Class A cotton wool ball fire source within a cylindrical wall socket (used for "FIPRON P") and a Class A cotton string fire source within a 15 litre distribution box (used for "FIPRON 15" and a 25 litre distribution box (used for "FIPRON 25").

Document Reference: Warringtonfire 410056, Date: 12th April 2019.

Place of test carried out : Warringtonfire, Holmesfield Road Warrington, United Kingdom

Marking of product: The product of packing is to be marked with name of manufacturer, type designation, and protection class.



S. Mahir TUĞCU 
Surveyor

This certificate is subject to terms and conditions described below:

- Any significant change in design or construction may render this Certificate invalid. Type Approval Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. This certificate is not valid for products without marking above mentioned. The manufacturer should notify TÜRK LOYDU of any modifications or changes to the equipment in order to obtain valid certificate. This certificate shows that tested specimens as representative of the product complies of the TÜRK LOYDU rules, and relevant international instruments that apply to it.