

A

B

C

D

E

F

G

H

IMO SYMBOLS

REMOTE CONTROLLED FUEL/LUB OIL VALVES

SPACE PROTECTED BY HFC-227

ACUSTICAL AND FLASH ALARM

DIRT TRAP

PIPE ARRANGEMENTS AT T-SPLITS

CORRECT

INCORRECT (NO VERTICAL SPLIT)

DO NOT UNDER TAKE ANY OF THIS PROCEDURES UNLESS IN AN EMERGENCY OR AUTHORISED.

ENSURE THAT ENGINE ROOM IS CLEAR OF ALL PERSONNEL.

- REMOTE ACTIVATION -

1. PULL HANDLE "A" TO OPEN THE BALL VALVE "25".

1. PULL HANDLE "B" TO DISCHARGE THE EXTINGUISHING GAS INTO THE PROTECTED SPACE.

- LOCAL ACTIVATION -

1. OPEN THE BALL VALVE "25", THIS WILL ACTIVATE THE ALARMS.

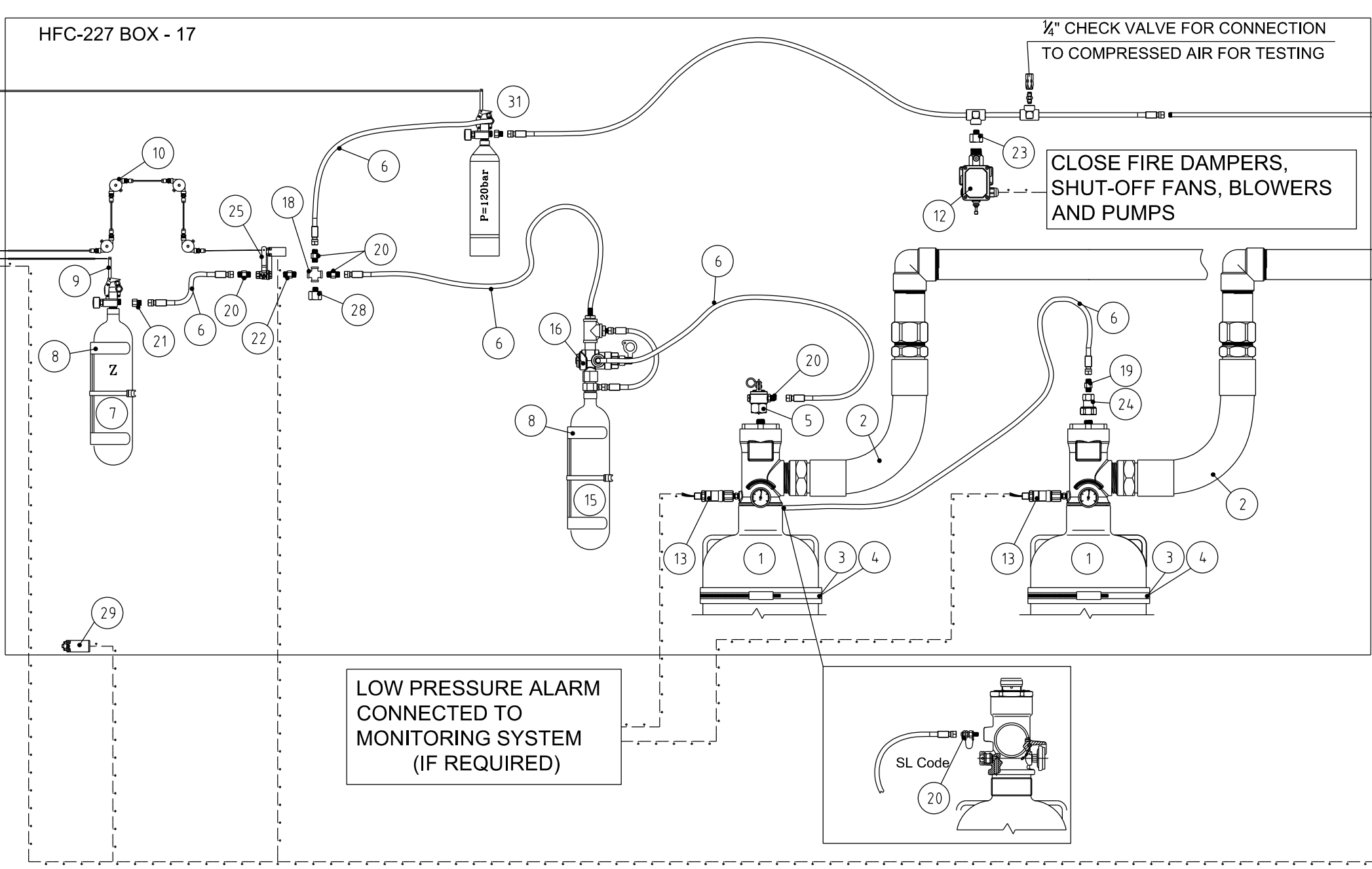
2. OPEN THE NITROGEN CYLINDER "Z" TO DISCHARGE THE EXTINGUISHING GAS INTO THE PROTECTED SPACE.

- EMERGENCY ACTIVATION -

IN CASE THAT THE LOCAL ACTIVATION IS FAIL, ACTIVATE THE DISCHARGE USING THE CONTROL HEAD "5". THIS ACTIVATION DON'T GIVE ANY KIND OF DELAY !!

WARNING :

DO NOT ENTER THE AFFECTED SPACE WITHOUT BREATHING APPARATUS AND PROTECTIVE UNIFORM UNTIL THE SPACE HAS BEEN THOROUGHLY VENTILATED. THE INTEGRITY OF THE AFFECTED SPACE IS TO BE MAINTAINED AFTER RELEASE OF THE AGENT AND THE PRODUCT OF DECOMPOSITION AND COMBUSTION ARE NOT TO BE VENTED INTO AREAS WHERE PERSONNEL COULD BE PRESENT.



PROTECTED SPACE

USE CONTACTS TO STOP FANS, BLOWERS, FUEL OIL PUMPS, FUEL OIL PUMPS, FUEL OIL PUMPS AND TO CLOSE DAMPERS

THE ALARM IS TO BE SUPPLIED WITH POWER FROM AN UNINTERRUPTIBLE SOURCE OF POWER AND IT WILL SOUND DURING THE DISCHARGE AND 30 SEC BEFORE

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ITEM Nr.	DESCRIPTION	QTY	CATEF Code
1	Bombola 125 lb con Valvola e Manometro	1	125LB
2	1 1/2 " Flexible Discharge Hose	2	DH11/1/2
3	Cylinder Mounting Straps - 40 / 70 lb	4	CS40/70
4	Cylinder Cradles 70 lb	2	BRA40/70
5	Lever Pressure Operated Control Head	1	LEPCH
6	Flexible Actuation Hose - 22 in.	5	FLEX11/4"
7	Bombola Pilota di Azoto	1	NPC
8	Staffa per Bombola da 2.5 Lt con fascette	2	BRA
9	Manual/Steel wire operated control head	1	EMCH
10	Carrucole Ottone	27	CPCON
11	Activation box with Microswitch	1	ABSWI
12	Pressure Switch	1	PS
13	Supervisory Pressure Switch	2	LPSB
14	Erogatore HFC227	3	NOZ
15	Ritardatore di Scarica Azoto	1	TIDE
16	25.4 " F - 1/4 M Adapter	1	AD25.4F
17	Box Bombole HFC227	1	BOX
18	Cross 1/4"	1	CR1/4"
19	Nipplo 1/4"M - 1/8"M - Ottone	1	AD1/4-1/8
20	Nipplo 1/4"M - 1/4"M - Ottone	5	AD1/4M
21	21.7 - 1/4 M Ottone	1	AD21.7F
22	Nipplo 1/4 "M - 1/4"F - Zincato	1	NIPP1/4
23	Nipplo 1/4"M - 3/4"F - Adapter	1	AD3/4M
24	Pressure Operated Control Head	1	PCH
25	Ball Valve 1/4" with microswitch	1	BVALSWI
26	Sirena Elettrica con lampeggiante	2	A-VSI
27	Kit Pneumatico Valvole Carburante (Bombola Azoto, Valvola, Manometro, Flessibile, Sfiatore)	1	KITPNE
28	1/4" CAP (For 120Bar additional pneumatic line)	1	
29	Limit switch		

PIPING IS GALVANISED STEEL SCHEDULE 40 THREADED. FITTINGS ARE ASA3000. THREADED JOINT IN FIXED GAS SYSTEMS SHALL BE ALLOWED ONLY INSIDE PROTECTED SPACES AND IN CYLINDER STORAGE SPACES. REFER TO DISCHARGE CONSOLIDATED REPORT FOR LENGTH,DIAMETER AND LAY-OUT OF THE PIPING NETWORK.

LA TUBAZIONE E' REALIZZATA IN ACCIAIO GALVANIZZATO FILETTATO. LA RACCORDERIA E' ASA3000. LE CONNESSIONI FILETTATE SONO CONSENTITE SOLAMENTE ALL'INTERNO DELLO SPAZIO PROTETTO E NEL LOCALE BOMBOLE. CONSULTARE IL REPORT DI SCARICA PER LA LUNGHEZZA IL DIAMETRO E LA GEOMETRIA DELLA TUBAZIONE.

NOTE: THIS PROJECT CAN NOT BE SEPARATED FROM DISCHARGE CONSOLIDATED REPORT, THE INSTALLATION OF PIPING MUST BE DONE IN COMPLIANCE WITH THE CONSOLIDATED REPORT. IF ANY MODIFICATION ARE DONE FIRE SUPPRESSION SYSTEM CAN FAIL.

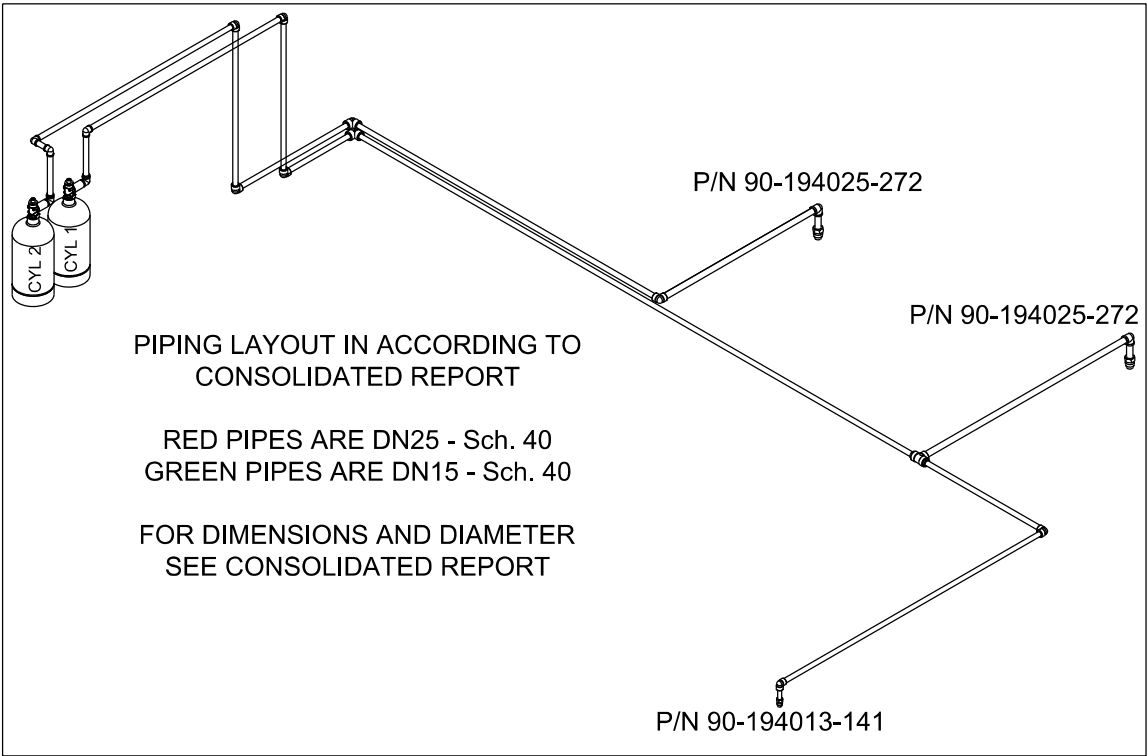
NOTA: IL REPORT DI SCARICA E QUESTO DISEGNO COSTITUISCONO UN UNICO PROGETTO. L'INSTALLAZIONE DELLA TUBAZIONE DEVE ESSERE ESEGUITA COME RIPORTATO SUL REPORT DI SCARICA. EVENTUALI MODIFICHE RISPETTO AL REPORT DI SCARICA POSSONO PROVOCARE IL NON FUNZIONAMENTO DELL'IMPIANTO ANTINCENDIO.

AN ALARM IN THE EVENT OF POWER FAILURE OF THE ALARM SYSTEM IS TO BE GIVE.

THE ELECTRICAL CABLE ARE TO BE OF THE FIRE-RESISTING TYPE.

THE ARRANGMENT OF THE CIRCUITS AND THEIR ELECTRICAL PROTECTION ARE TO BE SUCH THAT THE FAILURE OF ONE OF THE UDIBLE ALARM DEVICES WILL NOT IMPAIR THE OPERATION OF THE OTHERS.

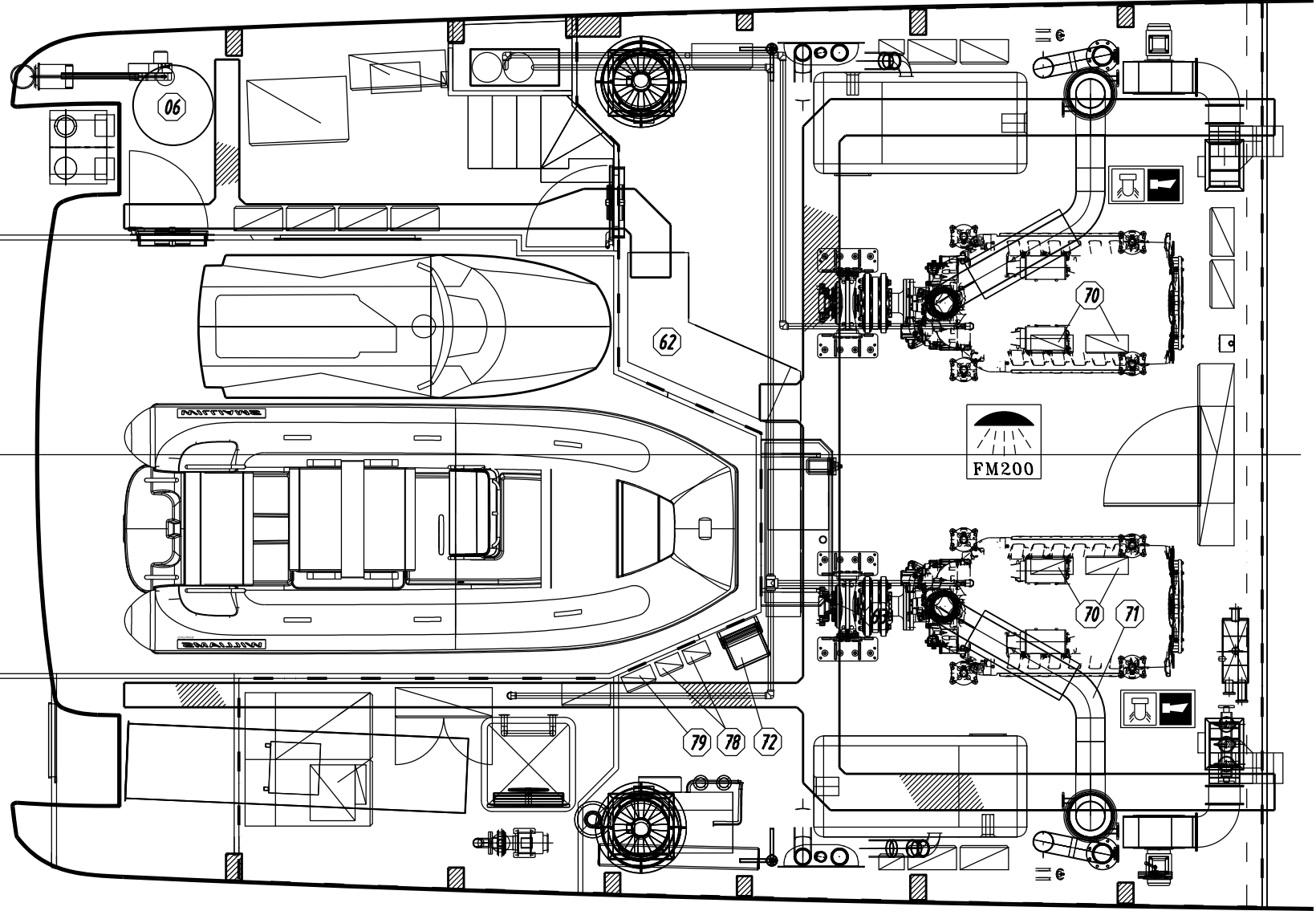
FLOODING FACTOR				
LOCALE ROOM	FM200 CONC. [%]	VOL. NETTO NET VOL. [MC]	Q.TA FM200 FM200 Q.TY [KG]	TIPO DI ESTINTORE TYPE OF EXTINGUIS.
ENGINE ROOM VOLUME	8.7@0C°	78.7	30	90-100070-001
			30	90-100070-001



PIPING LAYOUT IN ACCORDING TO CONSOLIDATED REPORT

RED PIPES ARE DN25 - Sch. 40
GREEN PIPES ARE DN15 - Sch. 40

FOR DIMENSIONS AND DIAMETER SEE CONSOLIDATED REPORT



IMPORTANTE: CATEF Srl DECLINA OGNI RESPONSABILITA' IN CASO DI DIFFORMITA' DEL REALIZZATO RISPETTO AL PRESENTE PROGETTO (1)
IMPORTANT: CATEF Srl CANNOT ACCEPT ANY RESPONSABILITY FOR REVISIONS OR MODIFICATION TO THIS PROJECT DESIGN (1)
(1): MODIFICHE O VARIAZIONI DOVRANNO ESSERE PREVENTIVAMENTE RICHIESTE PER SCRITTO E VALIDATE DA CATEF SRL
(1): ALL MODIFICATIONS OR REVISIONS HAVE TO BE AUTHORISED BEFOREHAND BY CATEF Srl IN WRITING

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