



INSTRUÇÃO TÉCNICA Nº 04/04

SÍMBOLOS GRÁFICOS PARA PROJETO DE SEGURANÇA CONTRA INCÊNDIO

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Símbolos gráficos para projeto de segurança contra incêndio

1. Objetivo

Esta Instrução Técnica estabelece os símbolos gráficos a serem utilizados nos projetos de segurança contra incêndio das edificações e áreas de risco, atendendo ao previsto no Decreto Estadual 46076/01.

2. Aplicação

Os símbolos gráficos constantes desta Instrução Técnica se aplicam aos projetos de segurança contra incêndio.

Adota-se a NBR 14100/98 – Proteção contra incêndio – Símbolos gráficos, com as inclusões e adequações de exigências constantes nesta instrução.

3. Definições

Para efeito desta Instrução Técnica, aplicam-se as definições constantes da Instrução Técnica 03 (Terminologia de proteção contra incêndio).

4. Referências normativas

Para maiores esclarecimentos consultar a seguinte norma:

NBR 14100/98 – Proteção contra incêndio – Símbolos gráficos para projeto.

5. Procedimentos

5.1 Os símbolos gráficos que devem constar nos projetos de segurança contra incêndio das edificações e áreas de risco são apresentadas no Anexo.

5.2 Os símbolos gráficos são compostos por uma forma geométrica básica, que define uma categoria de segurança contra incêndio e por um símbolo suplementar, que, quando colocado no interior da forma geométrica básica, define o significado específico do conjunto.

5.3 As dimensões dos símbolos devem estar em uma mesma escala, proporcional à escala de desenho do projeto, **permitindo a perfeita visualização dos sistemas e equipamentos de segurança contra incêndio, conforme prescreve a IT-01/04.**

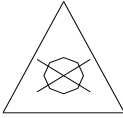
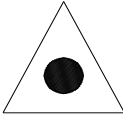

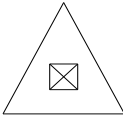
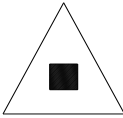
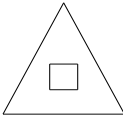
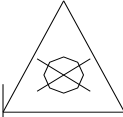
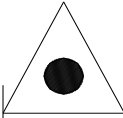
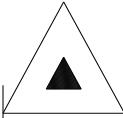
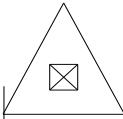
5.4 Caso seja conveniente, a área na cor preta existente no interior de algum dos símbolos pode ser substituída por hachuras ou pode ser pontilhada.

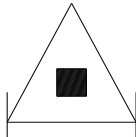
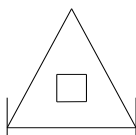
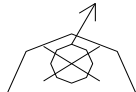

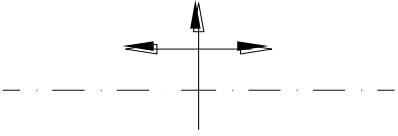
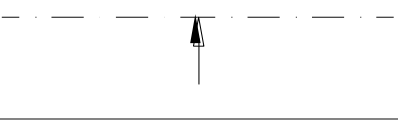

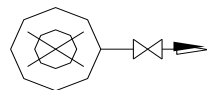
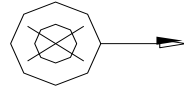
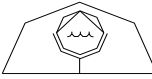
5.5 Os símbolos podem ser suplementados por figuras detalhadas, números ou abreviaturas.


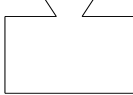
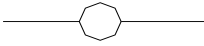
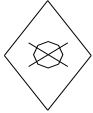
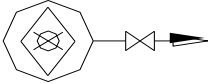

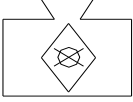
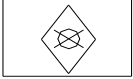

5.6 Os significados de todos os símbolos utilizados devem ser representados em uma legenda, de forma clara e de fácil identificação pelo leitor.




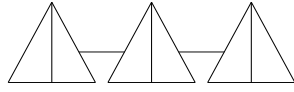
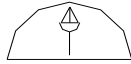
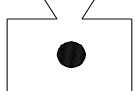

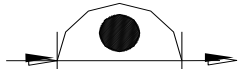
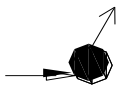
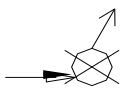
Anexo (normativo)




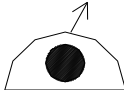


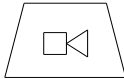
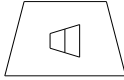
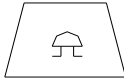
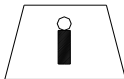
Símbolos gráficos para projeto de segurança contra incêndio

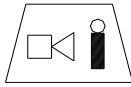
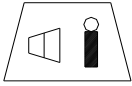
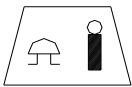
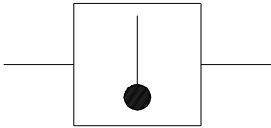
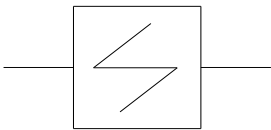
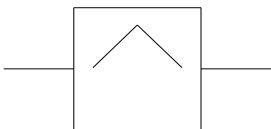
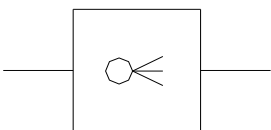
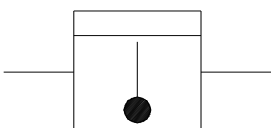
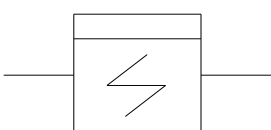
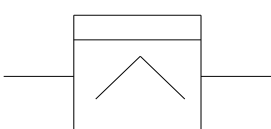
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		CARGA DE ESPUMA MECÂNICA	
		CARGA DE DIÓXIDO DE CARBONO (CO2)	
		CARGA DE PÓ BC	
		CARGA DE PÓ ABC	
		CARGA DE PÓ D	
	EXTINTORES SOBRE-RODAS	CARGA D'ÁGUA	
		CARGA DE ESPUMA MECÂNICA	
		CARGA DE DIÓXIDO DE CARBONO (CO2)	
		CARGA DE PÓ BC	

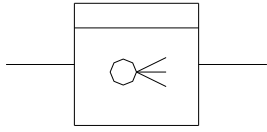
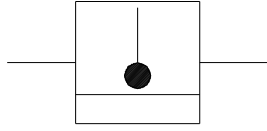
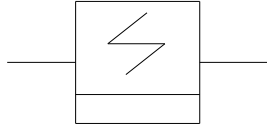
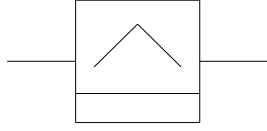
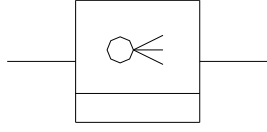
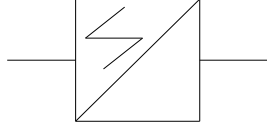
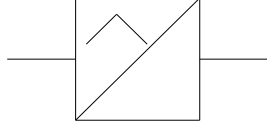
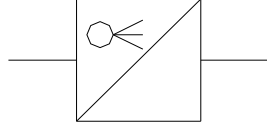
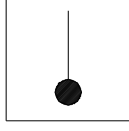
EXTINTORES	EXTINTORES SOBRE-RODAS	CARGA DE PÓ ABC	
		CARGA DE PÓ D	
SISTEMA DE HIDRANTES	SISTEMA DE HIDRANTES	HIDRANTE SIMPLES	
		HIDRANTE DUPLO	
		HIDRANTE URBANO DE COLUNA	
		HIDRANTE URBANO SUBTERRÂNEO	
		MANGOTINHO	
		REGISTRO DE RECALQUE COM VÁLVULA DE RETENÇÃO	
		REGISTRO DE RECALQUE SEM VÁLVULA DE RETENÇÃO	
		ACIONADOR DE BOMBA DE INCÊNDIO (BOTOEIRA TIPO LIGA DESLIGA)	

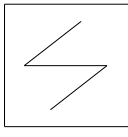
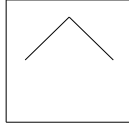
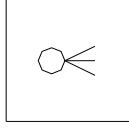
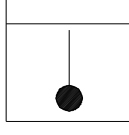
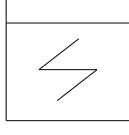
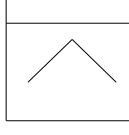
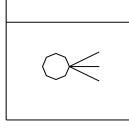
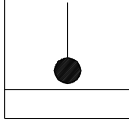
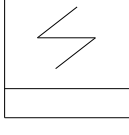
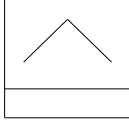
SISTEMA DE HIDRANTES	SISTEMA DE HIDRANTES	BOMBA DE INCÊNDIO	
		RESERVA DE INCÊNDIO	
SISTEMA FIXO DE EXTINÇÃO	CHUVEIROS AUTOMÁTICOS	PONTO (BICO DE SPRINKLER)	
		ÁREA PROTEGIDA PELO SISTEMA DE CHUVEIROS AUTOMÁTICOS	
		REGISTRO DE RECALQUE PARA SISTEMA DE CHUVEIROS AUTOMÁTICOS	
		BOMBA DE INCÊNDIO PARA SISTEMA DE CHUVEIROS AUTOMÁTICOS	
		RESERVA DE INCÊNDIO PARA SISTEMA DE CHUVEIROS AUTOMÁTICOS	
		PAINEL DE COMANDO CENTRAL SISTEMA DE CHUVEIROS AUTOMÁTICOS	
		VÁLVULA DE GOVERNO E ALARME (VGA) E/OU COMANDO SECCIONAL (CS)	
	GÁS CARBÔNICO		ÁREA PROTEGIDA PELO SISTEMA FIXO DE CO2

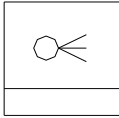
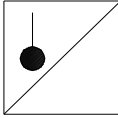
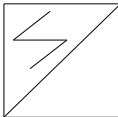
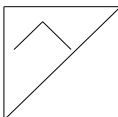
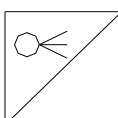
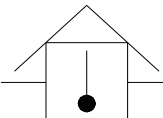
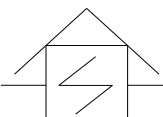
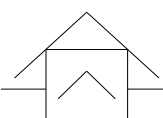
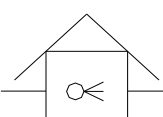
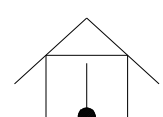
SISTEMA FIXO DE EXTINÇÃO	GÁS CARBÔNICO (CO2)	BATERIA DE CILINDROS DO SISTEMA FIXO DE CO2	
		ACIONADOR MANUAL DO SISTEMA FIXO DE CO2	
	SISTEMA ALTERNATIVO AO HALON	ÁREA PROTEGIDA HALON	
		CENTRAL DE BATERIAS HALON	
		ACIONADOR MANUAL HALON	
	SISTEMA DE ESPUMA	TANQUE ATMOSFÉRICO DE EFE SISTEMA FIXO DE ESPUMA	
		ESTAÇÃO FIXA DE EMULSIONAMENTO	
		ESTAÇÃO MÓVEL DE EMULSIONAMENTO	
		CANHÃO MONITOR (PORTÁTIL) SISTEMA FIXO DE ESPUMA	
		CANHÃO MONITOR (PORTÁTIL) SISTEMA FIXO DE RESFRIAMENTO	

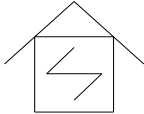
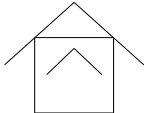
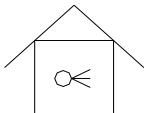
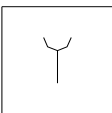


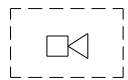
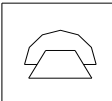


SISTEMA FIXO DE EXTINÇÃO	SISTEMA DE ESPUMA	ÁREA PROTEGIDA PELO SISTEMA FIXO DE ESPUMA		
		CÂMARA DE ESPUMA DO SISTEMA FIXO DE ESPUMA		
		EXTRATO FORMADOR DE ESPUMA (EFE) – PORTÁTIL		
		SISTEMA PORTÁTIL DE ESPUMA (ESGUICHO LANÇADOR)		
	NEBULIZADORES	ÁREA PROTEGIDA PELO SISTEMA DE NEBULIZADORES		
		REGISTRO MANUAL DO SISTEMA DE NEBULIZADORES		
	SISTEMA DE DETECÇÃO E ALARME	SISTEMA DE ALARME	AVISADOR SONORO TIPO SIRENE	
			AVISADOR SONORO TIPO ALTO FALANTE	
AVISADOR SONORO TIPO GONGO				
AVISADOR VISUAL				

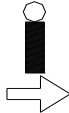

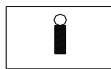
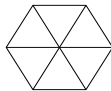


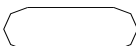



SISTEMA DE DETECÇÃO E ALARME	SISTEMA DE ALARME	AVISADOR SONORO E VISUAL	
		AVISADOR SONORO E VISUAL (COM ALTO FALANTE)	
		AVISADOR SONORO E VISUAL (COM GONGO)	
	DETECTORES LINEARES	DETECTOR DE CALOR LINEAR	
		DETECTOR DE FUMAÇA LINEAR	
		DETECTOR DE CHAMAS LINEAR	
		DETECTOR DE GÁS LINEAR	
	DETECTORES LINEARES ENTRE FORRO	DETECTOR DE CALOR LINEAR ENTRE FORRO	
		DETECTOR DE FUMAÇA LINEAR ENTRE FORRO	
		DETECTOR DE CHAMAS LINEAR ENTRE FORRO	


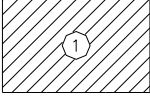
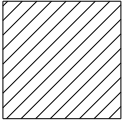
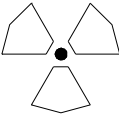

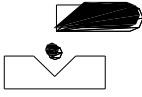

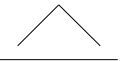
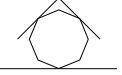
SISTEMA DE DETECÇÃO E ALARME	DETECTOR LINEAR ENTRE FORRO	DETECTOR DE GÁS LINEAR ENTRE FORRO	
	DETECTORES LINEARES ENTRE PISO	DETECTOR DE PISO LINEAR ENTRE PISO	
		DETECTOR DE FUMAÇA LINEAR ENTRE PISO	
		DETECTOR DE CHAMAS LINEAR ENTRE PISO	
		DETECTOR DE GÁS LINEAR ENTRE PISO	
		DETECTORES LINEARES EM ARMÁRIOS	DETECTOR DE CALOR LINEAR EM ARMÁRIO
	DETECTOR DE FUMAÇA LINEAR EM ARMÁRIO		
	DETECTOR DE CHAMA LINEAR EM ARMÁRIO		
	DETECTOR DE GAS LINEAR EM ARMÁRIO		
	DETECTORES PONTUAIS	DETECTOR DE CALOR PONTUAL	

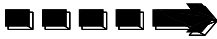

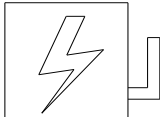

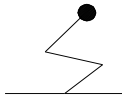
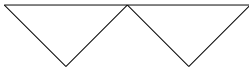
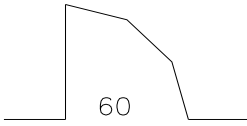
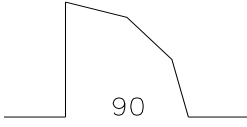

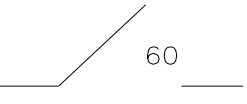
SISTEMA DE DETECÇÃO E ALARME	DETECTORES PONTUAIS	DETECTOR DE FUMAÇA PONTUAL	
		DETECTOR DE CHAMAS PONTUAL	
		DETECTOR DE GÁS PONTUAL	
	DETECTORES PONTUAIS ENTRE FORRO	DETECTOR DE CALOR PONTUAL ENTRE FORRO	
		DETECTOR DE FUMAÇA PONTUAL ENTRE FORRO	
		DETECTOR DE CHAMAS PONTUAL ENTRE FORRO	
		DETECTOR DE GÁS PONTUAL ENTRE FORRO	
	DETECTORES PONTUAIS ENTRE PISO	DETECTOR DE PISO PONTUAL ENTRE PISO	
		DETECTOR DE FUMAÇA PONTUAL ENTRE PISO	
		DETECTOR DE CHAMAS PONTUAL ENTRE PISO	

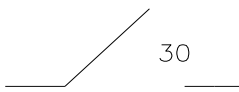


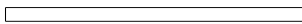

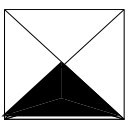
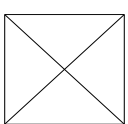


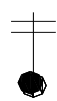
SISTEMA DE DETECÇÃO E ALARME	DETECTOR PONTUAL EM ARMÁRIO	DETECTOR DE GÁS PONTUAL ENTRE PISO	
	DETECTORES PONTUAIS EM ARMÁRIO	DETECTOR DE CALOR PONTUAL EM ARMÁRIO	
		DETECTOR DE FUMACA PONTUAL EM ARMÁRIO	
		DETECTOR DE CHAMA PONTUAL EM ARMÁRIO	
		DETECTOR DE GÁS PONTUAL EM ARMÁRIO	
		DETECTOR DE CALOR LINEAR COM PROTEÇÃO CONTRA INTEMPÉRIES	
	DETEC. LINEARES PROT.	DETECTOR DE FUMAÇA LINEAR COM PROTEÇÃO CONTRA INTEMPÉRIES	
		DETECTOR DE CHAMAS LINEAR COM PROTEÇÃO CONTRA INTEMPÉRIES	
		DETECTOR DE GÁS LINEAR COM PROTEÇÃO CONTRA INTEMPÉRIES	
		DETECTOR DE CALOR PONTUAL COM PROTEÇÃO CONTRA INTEMPÉRIES	



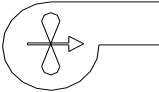
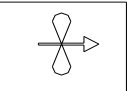
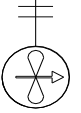
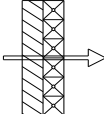
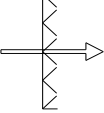
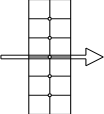

SISTEMA DE DETECÇÃO E ALARME	DETEC. PONTUAIS PROT.	DETECTOR DE FUMAÇA PONTUAL COM PROTEÇÃO CONTRA INTEMPÉRIES		
		DETECTOR DE CHAMAS PONTUAL COM PROTEÇÃO CONTRA INTEMPÉRIES		
		DETECTOR DE GÁS PONTUAL COM PROTEÇÃO CONTRA INTEMPÉRIES		
	COMPLEMENTOS	ACIONADOR MANUAL DO SISTEMA DE DETECÇÃO E ALARME		
		CENTRAL DE DETECÇÃO E ALARME		
		BATERIAS DO SISTEMA DE DETECÇÃO E ALARME		
		PAINEL REPETIDOR DO SISTEMA		
		TELEFONE DE EMERGÊNCIA/ INTERFONE		
	SIST. DE ILUM. DE EMERG.	ILUM. DE EMERGÊNCIA	PONTO DE ILUMINAÇÃO DE EMERGÊNCIA	
			BATERIAS DE ACUMULADORES PARA O SISTEMA DE ILUMINAÇÃO DE EMERGÊNCIA	

SIST. DE ILUM. DE EMERGÊNCIA	ILUMINAÇÃO DE EMERGÊNCIA	PONTO DE ILUMINAÇÃO DE EMERGÊNCIA TIPO BALIZAMENTO	
		GRUPO MOTO GERADOR	
		CENTRAL DO SISTEMA DE ILUMINAÇÃO DE EMERGÊNCIA	
VAZOS E TANQUES	CENTRAL GLP	CENTRAL PREDIAL DE GLP OU GÁS NATURAL	
	VASO PRES.	VASO SOBRE PRESSÃO	
	TANQUES	TANQUE HORIZONTAL ABAIXO DO SOLO (ENTERRADO)	
		TANQUE HORIZONTAL ACIMA DO SOLO (SUPERFÍCIE)	
		TANQUE VERTICAL ABAIXO DO SOLO (ENTERRADO)	
		TANQUE VERTICAL ACIMA DO SOLO (ELEVADO)	
		TANQUE HORIZONTAL SEMI-ENTERRADO	

VASOS E TANQUES	TANQUES	TANQUE VERTICAL SEMI-ENTERRADO	
	ÁREAS DE RISCO	ÁREA DE RISCO ESPECIAL	
ÁREAS FRIAS			
RISCOS	PRODUTOS PERIGOSOS	RADIOATIVOS	
		TÓXICO	
		CORROSIVO	
		EXPLOSIVO	
		COMBUSTÍVEL	
		COMBURENTE	
		ROTAS DE FUGA	DIRECIONAMENTO

ROTAS DE FUGA	DIRECIONAMENTO	SAÍDA FINAL DA ROTA DE FUGA	
	SISTEMA ELÉTRICO	INSTALAÇÃO ELÉTRICA	
		CHAVE ELÉTRICA SECUNDÁRIA	
		CHAVE ELÉTRICA PRINCIPAL	
		QUADRO DE DISTRIBUIÇÃO DE LUZ (QDL)	
SISTEMA PASSIVO	PÁRA RAIOS	PÁRA RAIOS	
	ANTIPÂNICO	BARRA ANTIPÂNICO	
	ABERTURAS PROTEGIDAS	PORTA CORTA FOGO P-60	
		PORTA CORTA FOGO P-90	
		PORTA CORTA FOGO P-120	
		ABERTURA PROTEGIDA P-60	

SISTEMA PASSIVO	SIST. PASSIVO	ABERTURA PROT.	ABERTURA PROTEGIDA P-30	
	VEDOS		PAREDES CORTA FOGO	
			PAREDE DE COMPARTIMENTAÇÃO	
			PAREDE COMUM	
			DIVISÓRIAS LEVES	
	ELEVADORES		ELEVADOR MONTA CARGA	
			ELEVADOR SIMPLES	
			ELEVADOR DE EMERGÊNCIA	
	SHAFTS		SHAFTS PROTEGIDOS	
	DÂMPERS		DÂMPERS CORTA FOGO	

SISTEMA PASSIVO	DAMPERS	DÂMPERS CORTA FUMAÇA	
		DAMPERS CORTA FOGO FUMAÇA	
	SISTEMA DE PRESSURIZAÇÃO OU EXAUSTÃO	GRUPO MOTO-VENTILADOR OU GRUPO MOTO-EXAUSTOR	
		ACIONADOR MANUAL PRESSURIZAÇÃO/EXAUSTÃO	
		DÂMPER DE SOBREPRESSÃO	
		VENEZIANA DE TOMADA DE AR COM FILTRO METÁLICO LAVÁVEL	
		GRELHA COM DISPOSITIVO DE AJUSTE E BALANCEAMENTO	
		REGISTRO DE FLUXO	
	OUTROS	ACESSO DE VIATURA NA EDIFICAÇÃO E ÁREA DE RISCO	
		EQUIPAMENTOS A PROVA DE EXPLOÇÃO	