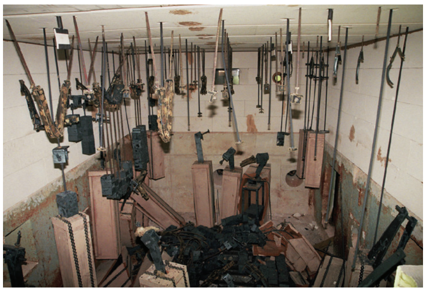
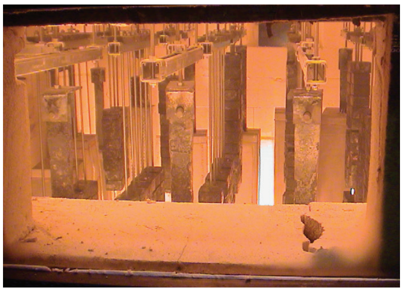
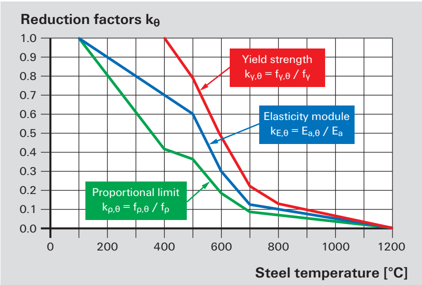
Fire protection inspections for SaMontec products





TEST CURVE

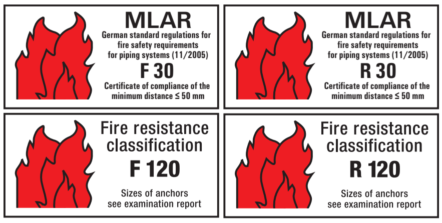


Dependency of the yield strength, proportional limit and elasticity module on the temperature (basis: EN1993-1-2:2012-12 Eurocode 3)

ADVANTAGES

- Single, multi or uniform load tested
- Full range of pipe clamps
- Rails and supports

APPROVALS

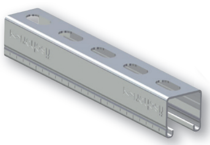


DESCRIPTION

Fire protection in buildings covers the safety of occupants,fire fighters and contents, and is regulated by the local building codes or standards. This is particularly evident in the installation of fire protection systems,such as a detection or suppression, as approved or recognized components must be used . The key message is to ensure the safety of escape route by ensuring the functioning of the supports and sub frames will remain integral for a set period of time.
The necessity for these considerations arises from the properties of the steel, which is subjected to a loss of yield when it reaches a temperature of >600^0 c and therefore components can undergo a series of resistence testing. The same information is documented in the inspection reports for a fire resistance with rating of R30, R90 and R120 based on the standard pipe systems directive of 2005(MLAR 2005) and according to EN-1363-1 and DIN4102-2

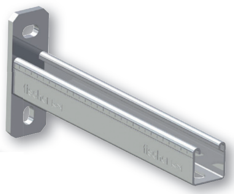
SPECIFICATION

FRS



FUS 41

FUS 62



FCA

SB

SBS

PDH-K

Product	Document no.	MLAR	R30 - R120	F30 - F120
FRS	MFPA Leipzig - GS 3.2 / 14-175 - 2	●	●	
FUS	MFPA Leipzig - GS 3.2 / 14-175 - 4	●	●	
FCA	MFPA Leipzig - GS 3.2 / 14-175 – 4	●	●	
SB	MPA-NRW- 210005109 - 7			●
SBS	MPA-NRW- 210005109 - 4	●		●
PDH-K	MPA-NRW- 210005109 - 6	●		●

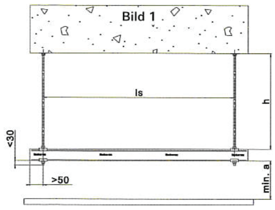
Lasttabellen auf Basis der gutachterlichen Stellungnahmen.

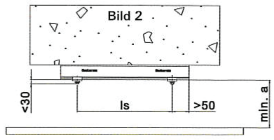
FUS-Schiene/FCA-Konsole -
Lasttabelle auf Basis der gutachterlichen Stellungnahme GS 3.2.14-175-4

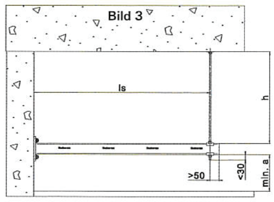
FUS / FCA 41/2,5(bild 1-3)		**MLAR**		**Maximale Lasten**				
Gewindestangen≥ 4.8		**Verformung**	**F - Dauer Min.**	**Max. Verformung**	**Feurwiderstandsdauer in Minuten**			
Belastugsart	**l_s [mm]**	**min a[1] [mm]**	**30 [kN]**	**min a[2] [mm]**	**30 [kN]**	**60 [kN]**	**90 [kN]**	**120 [kN]**
Einzellast	≤ 400	≤ 50	0,90	278	2,40	1,33	0,92	0,72
	≤ 700	≤ 50	-	320	1,31	1,04	0,80	0,67
Mehrfachlast[3]	≤ 400	≤ 50	0,90	278	2,40	1,33	0,92	0,72
	≤ 700	≤ 50	-	320	1,61	1,04	0,80	0,67
Gleichlast	≤ 400	≤ 50	1,50	258	3,00	2,10	1,41	1,06
	≤ 700	≤ 50	0,60	299	2,44	1,57	1,21	1,00
	≤ 1250	≤ 50	-	468	3,29	1,81	1,27	0,98
FUS/FCA 62/2,5(bild 1-3)		**MLAR**		**Maximale Lasten**				
Gewindestangen≥ 4.8		**Verformung**	**F - Dauer Min.**	**Max. Verformung**	**Feurwiderstandsdauer in Minuten**			
Belastugsart	**l_s [mm]**	**min a[1] [mm]**	**30 [kN]**	**min a[2] [mm]**	**30 [kN]**	**60 [kN]**	**90 [kN]**	**120 [kN]**
Einzellast	≤ 400	≤ 50	1,76	25	1,76	1,06	0,78	0,62
	≤ 1000	≤ 50	-	460	2,27	1,31	0,93	0,72
Mehrfachlast[3]	≤ 400	≤ 50	1,76	25	1,76	1,06	0,78	0,62
	≤ 960[4]	≤ 50	4,30	550	4,30	2,14	1,39	1,01
	≤ 1000	≤ 50	0,55	661	2,52	1,60	1,21	0,,99
Gleichlast	≤ 400	≤ 50	1,76	25	1,76	1,06	0,78	0,62
	≤ 960[4]	≤ 50	4,30	550	4,30	2,14	1,39	1,01
	≤ 1000	≤ 50	0,55	661	2,52	1,60	1,21	0,99
	≤ 1250	≤ 50	0,50	592	2,41	1,65	1,31	1,11
FUS 62/2,5(bild 4)		**MLAR**		**Maximale Lasten**				
Abängung FUS 41/2,5		**Verformung**	**F - Dauer Min.**	**Max. Verformung**	**Feurwiderstandsdauer in Minuten**			
Belastugsart	**l_s [mm]**	**min a[1] [mm]**	**30 [kN]**	**min a[2] [mm]**	**30 [kN]**	**60 [kN]**	**90 [kN]**	**120 [kN]**
Einzellast	≤ 1000	≤ 50	0,57	369	1,33	0,87	0,68	0,57
Mehrfachlast3)	≤ 1000	≤ 50	0,62	649	1,92	1,34	1,08	0,92
Gleichlast	≤ 1000	≤ 50	0,62	649	1,92	1,34	1,08	0,92

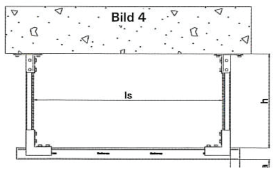
Diese Daten gelten für FUS-Schienen und FCA-Konsolen in verzinkter und in Edelstahl Ausführung.

1) Gultig bis zu einer Abhängehöhe ha ≤500mm
2) Basis Abhängehöhe ha =250mm, Längenänderung der Gewindestangen im Brandfall ~10mm/m
3) Lastern gelten bei Mehrfachlaten als Summe der symetrisch verteilten Einzellasten
4) Diese Werte gelten nur für die FCA 62/2,5 mit Abhängung durch Gewindestange

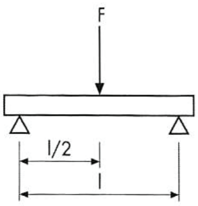




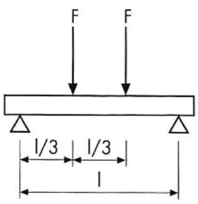




Einzellast =
Punktuelle Last,
z. B. eine Rohrchello
auf der Schiene.



Mehrfachlast =
Mehr als ein Lastpunkt
auf der Schiene, z. B.
mehrere Rohrchellen.



Gleichlast =
Gleichmäßige Lastverteilung
auf der Schiene, z. B. biege-
steifer Lüftungskanal.