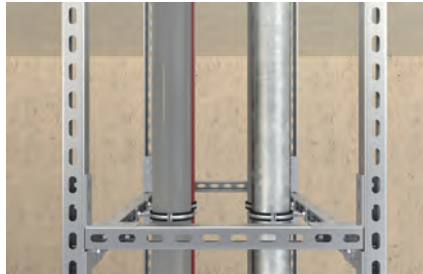


# Channel FUS

The universal and complete mounting channel system for a wide range of applications



3D-frame constructions



Solid frame construction

## Applications

- Secure horizontal and vertical installations
- Fast and efficient fixing of pipelines and supporting structures

## Certificates



Fire resistance classification  
R120



MLAR R30

## Advantages/benefits

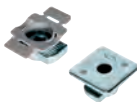
- The fire inspection report in line with MLAR/EN13501 guarantees independently tested functional safety.
- The basic channel geometry allows the usage of the complete extensive range of accessories.
- The stamped teeth in the channel give the sliding nuts a secure hold for high shear loads, e.g. for vertical installation.
- Different channel wall thicknesses allow economical choices for installation.
- The scale on the mounting channels simplifies the cutting and positioning of the fixtures during the installation.

## Properties

- Material: pre-galvanised steel S-250-GD+Z275 (material no.: 1.0242) acc. to DIN EN 10346

## See also

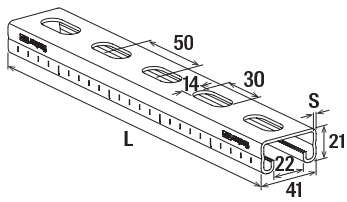
Connector FCN  
Clix P/M



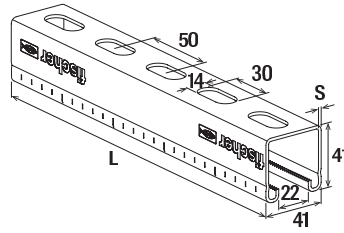
Rail rubber insert  
EMS



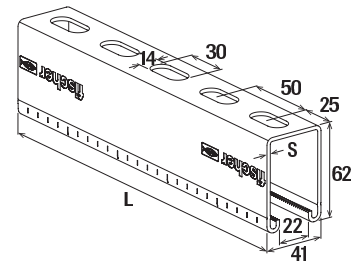
Technical data



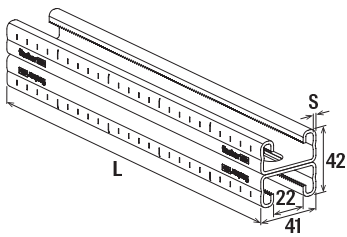
FUS 21



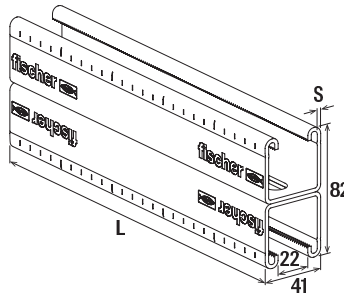
FUS 41



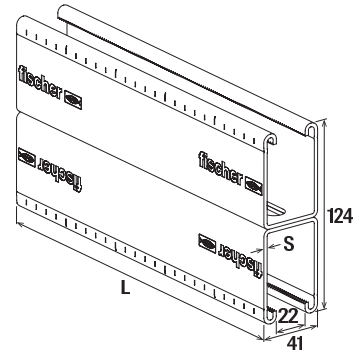
FUS 62



FUS 21D



FUS 41D



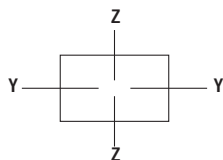
FUS 62D

2c

Item	Item No.	Fire test report	Length	Thickness	Sales unit
			L [mm]	S [mm]	
FUS 21/1,5 - 2 m	545117	—	2000	1.5	1
FUS 21/1,5 - 3 m	545118	—	3000	1.5	1
FUS 21/1,5 - 6 m	545119 <sup>1)</sup>	—	6000	1.5	1
FUS 21/2,0 - 2 m	040391	—	2000	2	1
FUS 21/2,0 - 3 m	097660	—	3000	2	1
FUS 21/2,0 - 6 m	097661	—	6000	2	1
FUS 21/2,5 - 2 m	092867	—	2000	2.5	1
FUS 21/2,5 - 3 m	077349	—	3000	2.5	1
FUS 21/2,5 - 6 m	077541	—	6000	2.5	1
FUS 41/1,5 - 2 m	545120	—	2000	1.5	1
FUS 41/1,5 - 3 m	545126	—	3000	1.5	1
FUS 41/1,5 - 6 m	545127	—	6000	1.5	1
FUS 41/2,0 - 2 m	040390	—	2000	2	1
FUS 41/2,0 - 3 m	097658	—	3000	2	1
FUS 41/2,0 - 6 m	097659	—	6000	2	1
FUS 41/2,5 - 2 m	092295	X	2000	2.5	1
FUS 41/2,5 - 3 m	077347	X	3000	2.5	1
FUS 41/2,5 - 6 m	077537	X	6000	2.5	1
FUS 62/2,5 - 6 m	504457	X	6000	2.5	1
FUS 21D/2,0 - 3 m	504458	—	3000	2	1
FUS 21D/2,0 - 6 m	535531	—	6000	2	1
FUS 41D/2,5 - 6 m	504459	—	6000	2.5	1
FUS 62D/2,5 - 6 m	504460	—	6000	2.5	1

1) Delivery time on request.

Loads

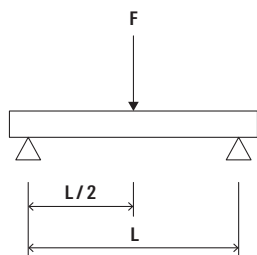


2c

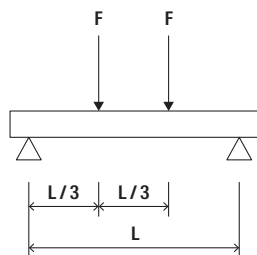
Item	Item No.	Profil weight [kg/m]	Profile cross section [cm <sup>2</sup> ]	Moment of inertia <i>I<sub>y</sub></i> [cm <sup>4</sup> ]	Moment of inertia <i>I<sub>z</sub></i> [cm <sup>4</sup> ]	Section modulus <i>W<sub>y</sub></i> [cm <sup>3</sup> ]	Section modulus <i>W<sub>z</sub></i> [cm <sup>3</sup> ]	Max. recommended static load for 1m length <i>F<sub>rec</sub></i> [kN]	Max. recommended static load for 2m length <i>F<sub>rec</sub></i> [kN]	Max. recommended static load for 3m length <i>F<sub>rec</sub></i> [kN]
FUS 21/1,5 - 2 m	545117	1.20	1.35	0.8	3.69	0.75	1.80	0.41	0.10	—
FUS 21/1,5 - 3 m	545118	1.20	1.35	0.8	3.69	0.75	1.80	0.41	0.10	—
FUS 21/1,5 - 6 m	545119 <sup>1)</sup>	1.20	1.35	0.8	3.69	0.75	1.80	0.41	0.10	—
FUS 21/2,0 - 2 m	040391	1.44	1.72	0.97	4.66	0.89	2.27	0.49	0.12	—
FUS 21/2,0 - 3 m	097660	1.44	1.72	0.97	4.66	0.89	2.27	0.49	0.12	0.05
FUS 21/2,0 - 6 m	097661	1.44	1.72	0.97	4.66	0.89	2.27	0.49	0.12	0.05
FUS 21/2,5 - 2 m	092867	1.67	1.99	1.03	5.28	0.93	2.58	0.52	0.13	—
FUS 21/2,5 - 3 m	077349	1.67	1.99	1.03	5.28	0.93	2.58	0.52	0.13	0.06
FUS 21/2,5 - 6 m	077541	1.67	1.99	1.03	5.28	0.93	2.58	0.52	0.13	0.06
FUS 41/1,5 - 2 m	545120	1.80	1.95	4.26	6.03	2.07	2.94	1.56	0.54	—
FUS 41/1,5 - 3 m	545126	1.80	1.95	4.26	6.03	2.07	2.94	1.56	0.54	0.24
FUS 41/1,5 - 6 m	545127	1.80	1.95	4.26	6.03	2.07	2.94	1.56	0.54	0.24
FUS 41/2,0 - 2 m	040390	2.06	2.52	5.33	7.69	2.58	3.75	1.94	0.67	—
FUS 41/2,0 - 3 m	097658	2.06	2.52	5.33	7.69	2.58	3.75	1.94	0.67	0.30
FUS 41/2,0 - 6 m	097659	2.06	2.52	5.33	7.69	2.58	3.75	1.94	0.67	0.30
FUS 41/2,5 - 2 m	092295	2.45	3.00	6.00	8.99	2.85	4.38	2.14	0.76	—
FUS 41/2,5 - 3 m	077347	2.45	3.00	6.00	8.99	2.85	4.38	2.14	0.76	0.34
FUS 41/2,5 - 6 m	077537	2.45	3.00	6.00	8.99	2.85	4.38	2.14	0.76	0.34
FUS 62/2,5 - 6 m	504457	3.27	4.05	17.70	12.90	5.62	6.29	4.22	2.10	0.99
FUS 21D/2,0 - 3 m	504458	2.87	3.44	5.49	9.31	2.61	4.54	1.96	0.69	0.31
FUS 21D/2,0 - 6 m	535531	2.87	3.44	5.49	9.31	2.61	4.54	1.96	0.69	0.31
FUS 41D/2,5 - 6 m	504459	4.89	6.00	35.01	17.90	8.76	8.78	6.58	3.28	1.96
FUS 62D/2,5 - 6 m	504460	6.55	8.09	111.00	25.80	17.90	12.58	13.45	6.72	4.47

1) Delivery time on request.

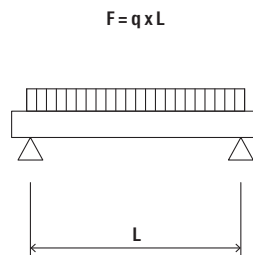
Load case 1



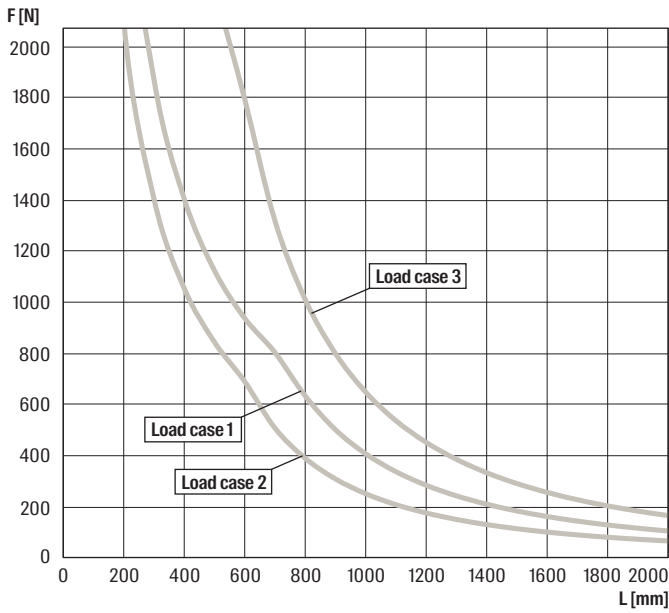
Load case 2



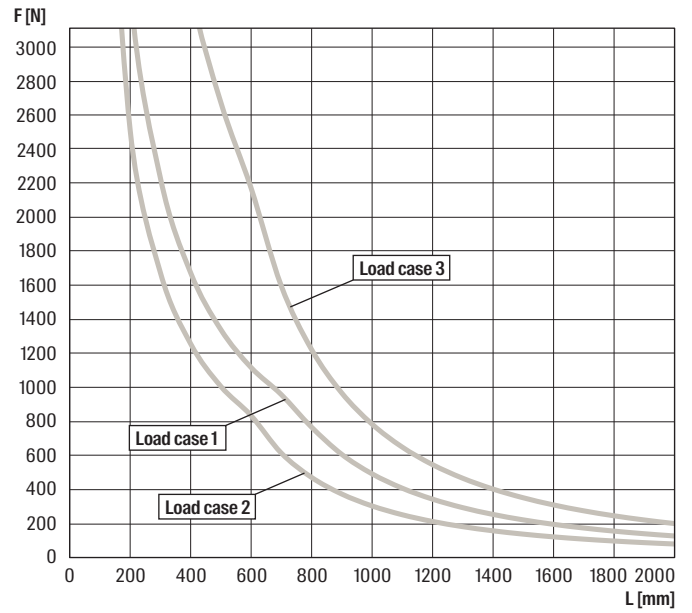
Load case 3



### FUS 21/1,5

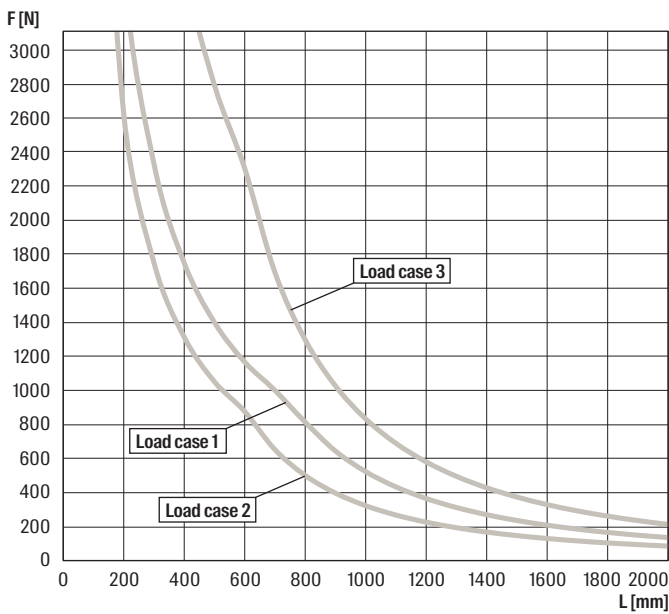


### FUS 21/2,0

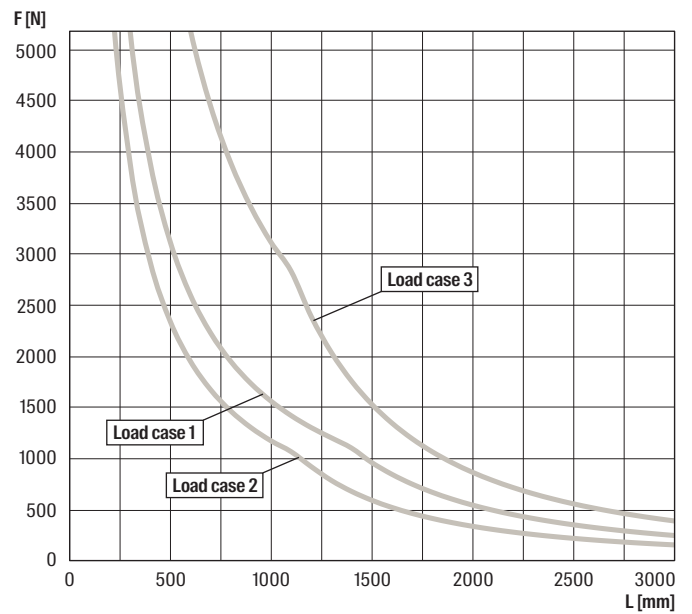


For the load curves, the permissible steel strain  $\delta_{adm.} = 188 \text{ N/mm}$  and the maximum deflection under load  $L/200$  are not exceeded. Fixings and screw fastenings must be calculated accordingly. The increased yield strength is calculated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

### FUS 21/2,5



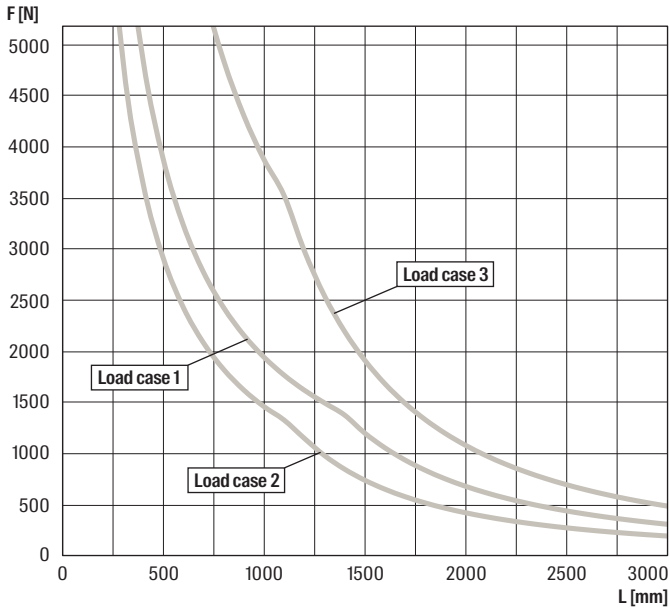
### FUS 41/1,5



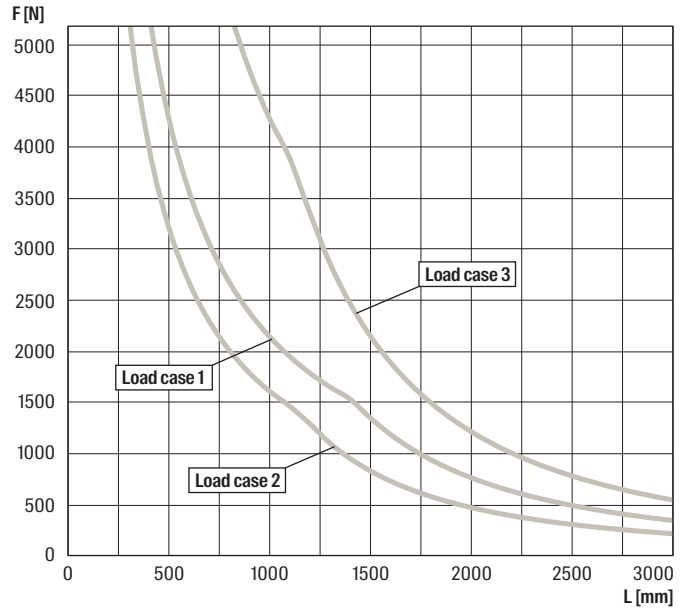
For the load curves, the permissible steel strain  $\delta_{adm.} = 188 \text{ N/mm}$  and the maximum deflection under load  $L/200$  are not exceeded. Fixings and screw fastenings must be calculated accordingly. The increased yield strength is calculated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

2c

**FUS 41/2,0**

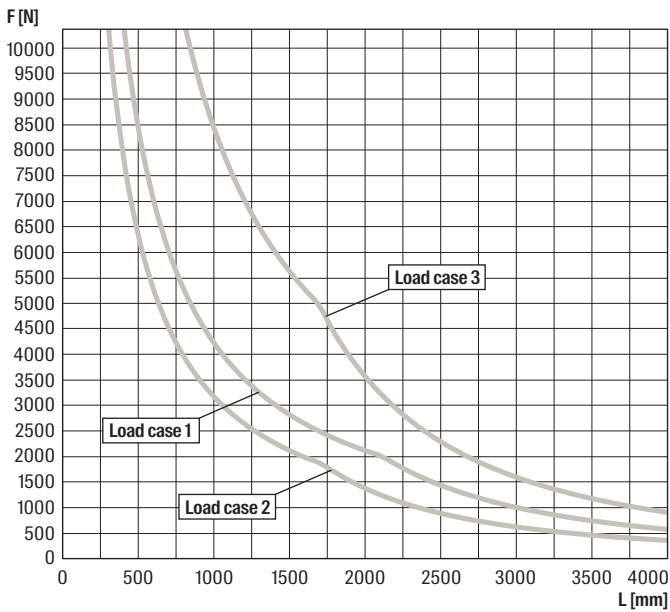


**FUS 41/2,5**

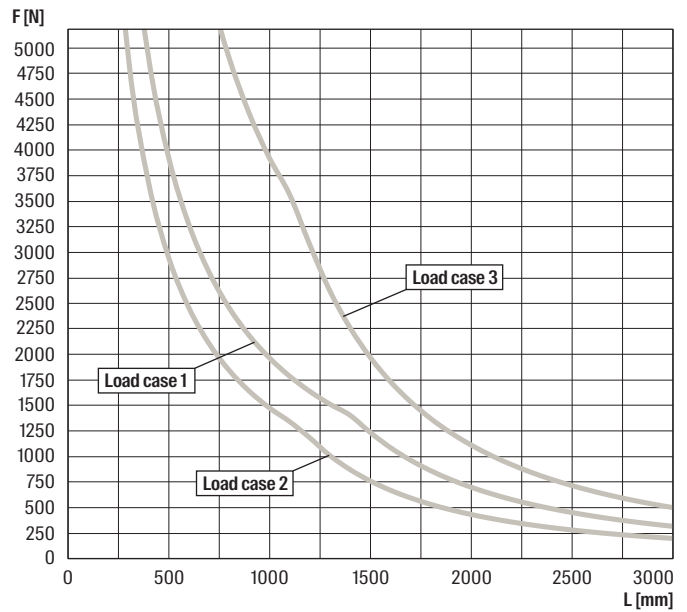


For the load curves, the permissible steel strain  $\delta_{adm.} = 188$  N/mm and the maximum deflection under load  $L/200$  are not exceeded. Fixings and screw fastenings must be calculated accordingly. The increased yield strength is calculated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

**FUS 62/2,5**

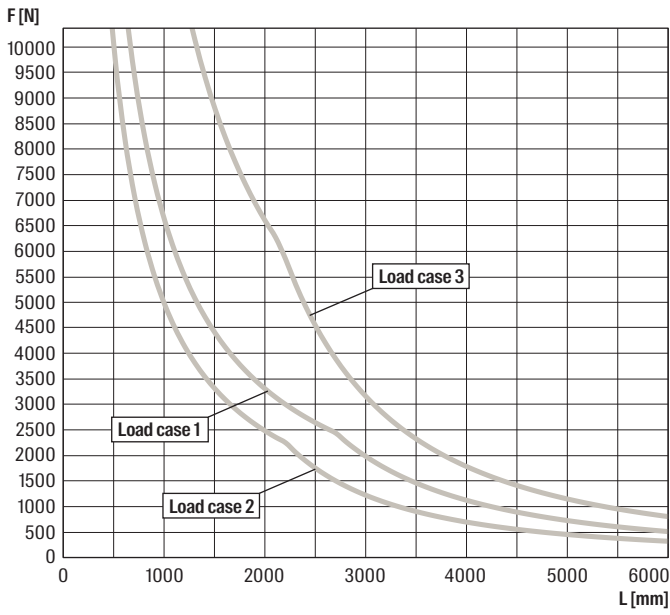


**FUS 21D/2,0**

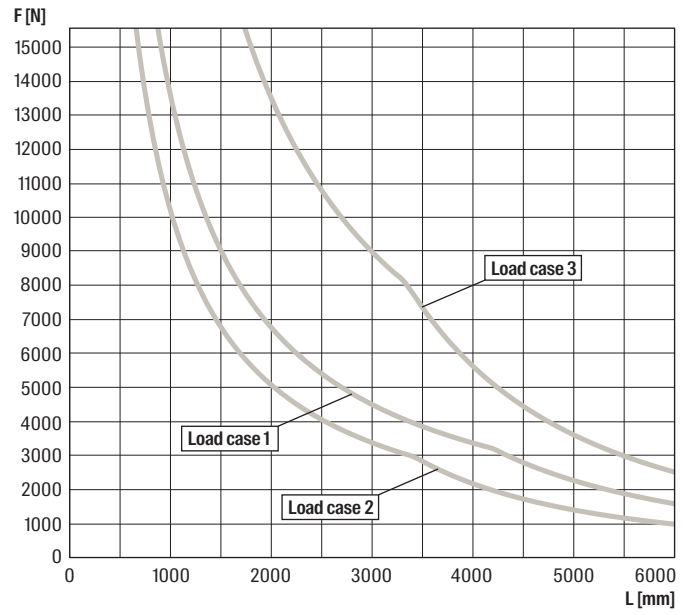


For the load curves, the permissible steel strain  $\delta_{adm.} = 188$  N/mm and the maximum deflection under load  $L/200$  are not exceeded. Fixings and screw fastenings must be calculated accordingly. The increased yield strength is calculated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

### FUS 41D/2,5



### FUS 62D/2,5



For the load curves, the permissible steel strain  $\delta_{adm.} = 188 \text{ N/mm}$  and the maximum deflection under load  $L/200$  are not exceeded. Fixings and screw fastenings must be calculated accordingly. The increased yield strength is calculated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

2c