

Project.....:

Component.....:

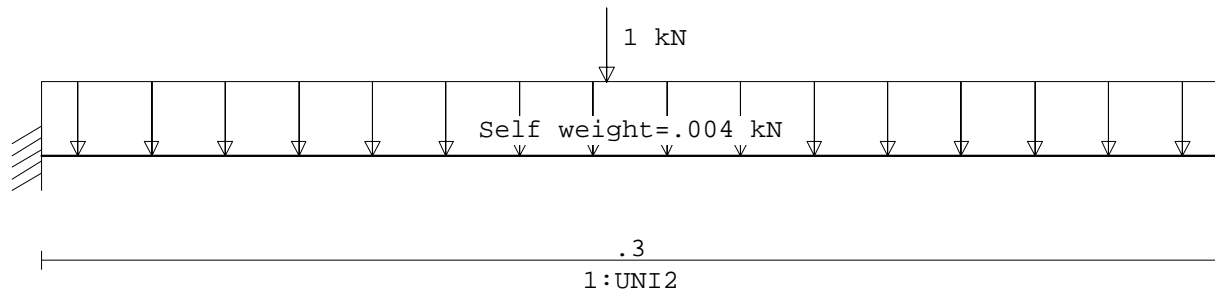
Dimensions...: [kN,m]

Date.....: 03-03-2012



All results produced by this application must be validated to all applicable standards.
The installation method should reflect the design parameters utilized in this program.

LOADS [kN,m]



SPAN LENGTHS [m]

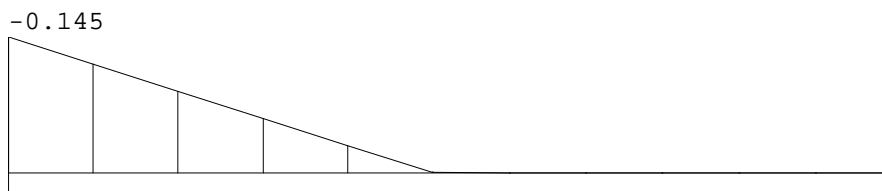
Span	From	To	Length
1	0.000	0.300	0.300

LOADS

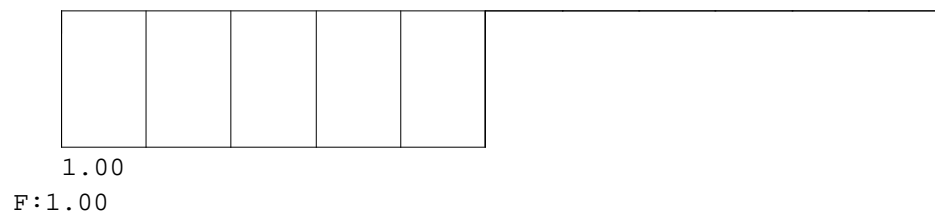
Lcα:1

Load Type		load [kN,m]	Distance [m]	Length [m]
1 Self weight	[kN/m]	0.013	0.000	0.300
2 Point load	[kN]	1.000	0.144	

MOMENTS [kNm]

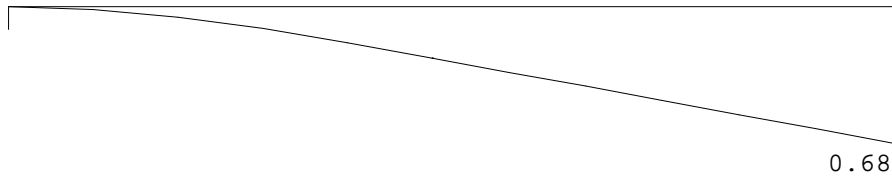


SHEAR FORCES [kN]



Project.....:

Component.....:

**DEFLECTIONS** [mm]**CALCULATION VALUES**


Span	Pos.	Defl. [mm]	Shearf. [kN]	Moment [kNm]
1	0.000	0.00	1.004	-0.145
1	0.300	0.68	0.000	0.000

REACTION FORCES

Supp	F [kN]	M [kNm]
1	-1.004	0.145

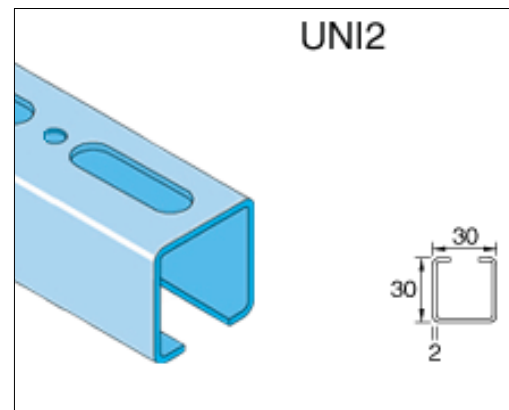
-1.004 : (absolute) greatest sum of reactions
1.004 : (absolute) greatest sum of loads

CHANNEL VERIFICATION

Channel : UNI2
 Orientation : 
 Material thickness: 2.000 [mm]
 Slot dim : 20x10,5 [mm]
 Slot pitch : 50 [mm]
 A : 1.680 [cm²]
 Ix : 1.830 [cm⁴]
 Zx : 1.170 [cm³]

 Deflection : 0.68 [mm] at span: 1
 : 1/439 (Permissible: 1/100)

 Moment : 0.145 at pos: 0
 Stress : 124 [N/mm²] (Permissible: 140)



Project.....:

Component.....:



GLOSSARY

SPAN LENGTHS

Span : Span number
From : Start position of Span
To : End position of Span
Length : Length of Span

LOAD TABLE

Type No. : Load type number and description
Load : Uniform distributed load, Point load or moment
Distance : Distance from reference to start load
Length : Length of the load

CALCULATION VALUES

Span . : Span number
Pos. : Position with respect to start of Span
Defl. : Deflection perpendicular to the beam [mm].
Shear force : Shear force at this position
Moment : Moment at this position

REACTIONS

Supp : Support point number
F : Reaction
M : Moment
Reaction sum : Sum of all reactions
Load sum : Sum of all loads
Minor differentials may occur due to:
- calculation inaccuracies

CHANNEL VERIFICATION

Channel : Channel type.
Orientation : Channel orientation / slot direction.
Material thickness : Thickness of the channel material.
Slot size : Dimensions of the slots.
Slot pitch : Pitch of the slots.
A : Area of the section.
Ix / Iy : Moment of inertia of the loaded axis
Zx / Zy : Section modulus.
Defl. : Deflection as a distance and
: as a factor of the span.
Moment : The maximum occurring moment at a support or at a span.
Stress : The maximum occurring stress.