

SPACE GASS Input Guide

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With the increasing popularity of SPACE GASS with the engineering and planning community at large, Treadwell™ is aware that it essential to aid users and make usage of this multi-purpose 3D analysis and design program simpler with our product guide. Instructions are tabulated step by step below on how to use our tables with the program.

Instructions

Under the Section segment:

On the second line:

1. **A** refers to Cross Sectional Area found in all products under Sectional Properties.
2. **J** refers to Torsion Constant found in all products under Sectional Properties.
3. **I_y** refers to moment of inertia about the Y axis found in all products under Sectional Properties.
4. **I_z** refers to moment of inertia about the X axis found in all products under Sectional Properties.
5. **A_y** refers to shear area. This can be left as zero.
6. **A_z** refers to shear area. This can be left as zero.
7. **Alpha** does not need to be altered.
8. **Mark** refers to section mark. This is not important for design.

Under the Material segment:

1. The first box refers to the material number.
2. The second box refers to the material name.
3. E refers to the Modulus of Elasticity found on pages 10 & 12 under Coupon Properties in the ArchitEX™ Structural Product Guide.
4. Poisson's refers to the Poisson's Ratio of FRP which is 0.23.
5. Mass Density refers to Density found on pages
6. Temp. Coefficient refers to the Coefficient of Thermal Expansion, LW, found on pages 10 & 12 under Coupon Properties in the ArchitEX™ Structural Product Guide.
7. F'c refers to the compressive strength of concrete which is 0.

Edit/Query Member

Member:	1	Type	Normal	Cable Len	0	Chord Length	10	Angle	Direction: 0	Node	N/A	Axis	N/A	Close
End A:	1	Fixity	FFFFFF	Trans	x y z	Rot	x y z	y Stiffness	0	z Stiffness	0	*F*		
End B:	2	Fixity	FFFFFF	Trans	x y z	Rot	x y z	y Stiffness	0	z Stiffness	0	*F*		
Section:	1	Source: Manual		Flip:	No	Angle Type: N/A		Regen						
	A	J	I _y	I _z	A _y	A _z	Alpha	Mark						
	0	0	0	0	0	0	0							
Material:	1	E	Poisson's	Mass Dens	Temp Coeff	F'c								
		0	0	0	0	0								

