

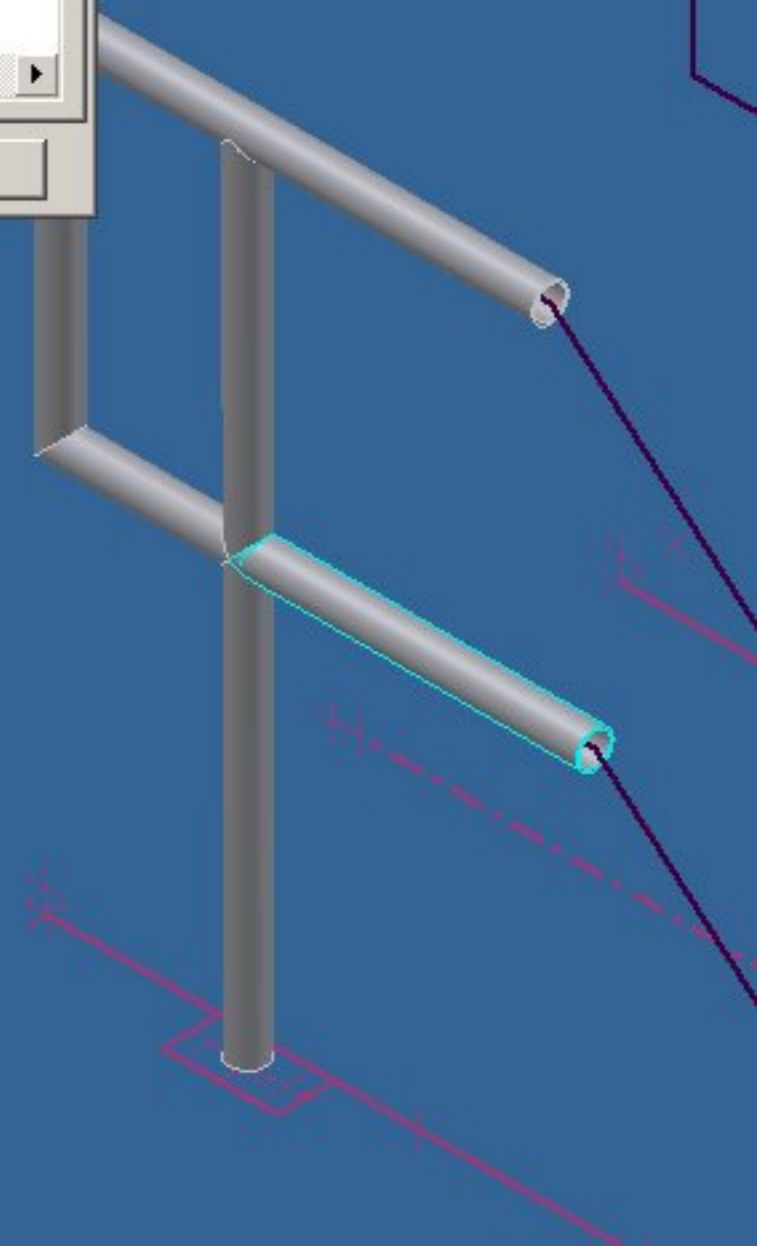
Search bar with a magnifying glass icon and a text input field.

Model Data | Structured (Disabled) | Parts Only

Item	...	Item QTY	Description	NAME	Part Number	Material	Mass	SA	Filename
1		1	Pipe	Pipe 1 1/2 Sch 40 - 41 15/16 Lg	AISC Pipe 1 1_2 Sch 40 00000001	Steel, A106	8.756 lbmass		AISC Pipe
2		1	Pipe	Pipe 1 1/2 Sch 40 - 10 11/16 Lg	AISC Pipe 1 1_2 Sch 40 00000002	Steel, A106	1.925 lbmass		AISC Pipe
3		1	Pipe	Pipe 1 1/2 Sch 40 - 20 7/8 Lg	AISC Pipe 1 1_2 Sch 40 00000003	Steel, A106	4.034 lbmass		AISC Pipe
4		1	Pipe	Pipe 1 1/2 Sch 40 - 26 1/2 Lg	AISC Pipe 1 1_2 Sch 40 00000004	Steel, A106	5.419 lbmass		AISC Pipe
5		1	Pipe	Pipe 1 1/2 Sch 40 - 18 1/8 Lg	AISC Pipe 1 1_2 Sch 40 00000005	Steel, A106	3.700 lbmass	<input type="checkbox"/>	AISC Pipe

fractional to 1/16 - my own aisc pipe iPart - applied new to a skeleton

Import... Export... Done



Parameter Name	Unit	Equation	Nominal Val	Tol.	Model Valu		Comment
Model Parameters							
d0	in	G_H	1.900000		1.900000	<input type="checkbox"/>	
d1	in	G_T	0.145000		0.145000	<input type="checkbox"/>	
d3	deg	0 deg	0.000000		0.000000	<input type="checkbox"/>	
d4	in	-G_OFFSET_START	-0.000000		-0.000000	<input type="checkbox"/>	
d5	in	G_OFFSET_END + B_L	10.000000		10.000000	<input type="checkbox"/>	
d6	deg	90 deg	90.000000		90.000000	<input type="checkbox"/>	
Reference Parameters							
d7	in	10.000 in	10.000000		10.000000	<input type="checkbox"/>	
User Parameters							
G_H	in	1.9 in	1.900000		1.900000	<input type="checkbox"/>	Outside diameter
G_T	in	0.145 in	0.145000		0.145000	<input checked="" type="checkbox"/>	Thickness
G_L	in	d7	10.000000		10.000000	<input checked="" type="checkbox"/>	Length
G_OFFSET_START	in	0 in	0.000000		0.000000	<input type="checkbox"/>	
G_OFFSET_END	in	0 in	0.000000		0.000000	<input type="checkbox"/>	
B_L	in	10 in	10.000000		10.000000	<input checked="" type="checkbox"/>	
MAS	lbmass/ft	2.72455511328 lbmass/ft					
G_D	in	G_H					

Custom Property Format

Property Type: Text

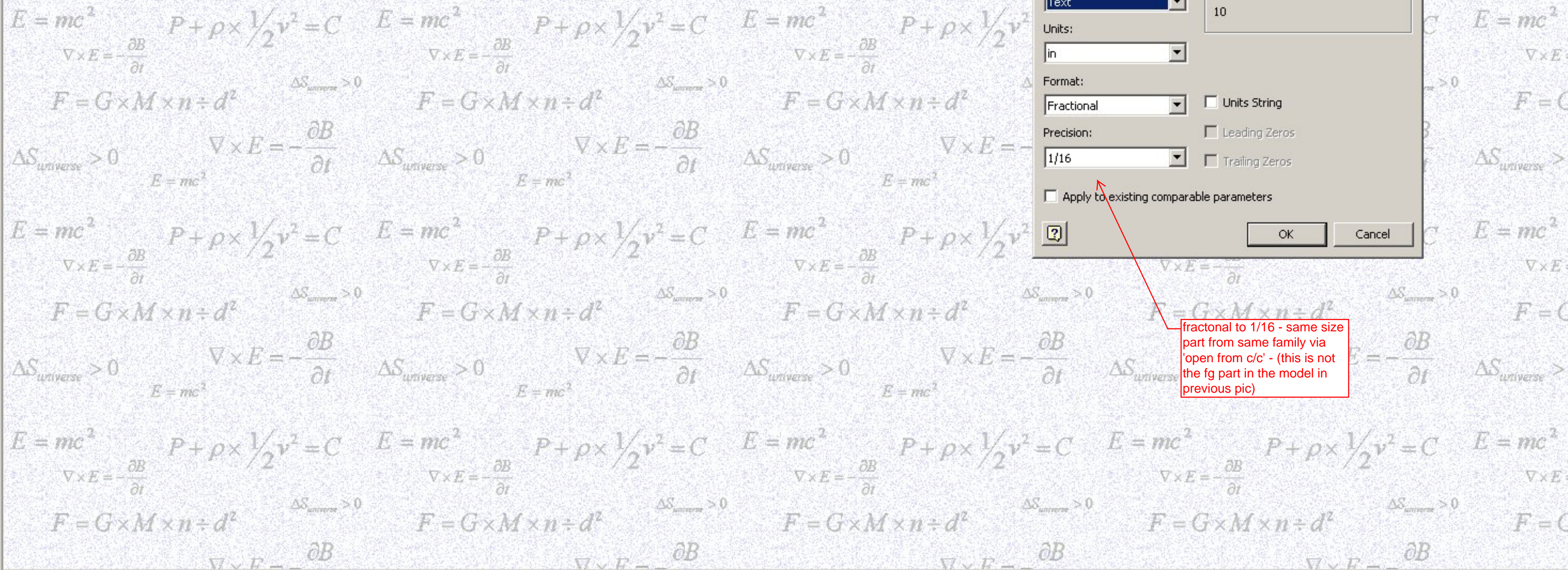
Units: in

Format: Fractional Units String

Precision: 1/16 Leading Zeros Trailing Zeros

Apply to existing comparable parameters

fractional to 1/16 - same size part from same family via 'open from c/c' - (this is not the fg part in the model in previous pic)



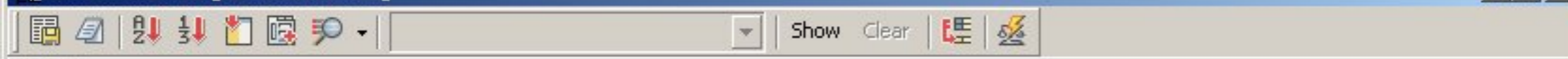
Display only parameters used in equations

Add Link Update

Reset Tolerance



Done



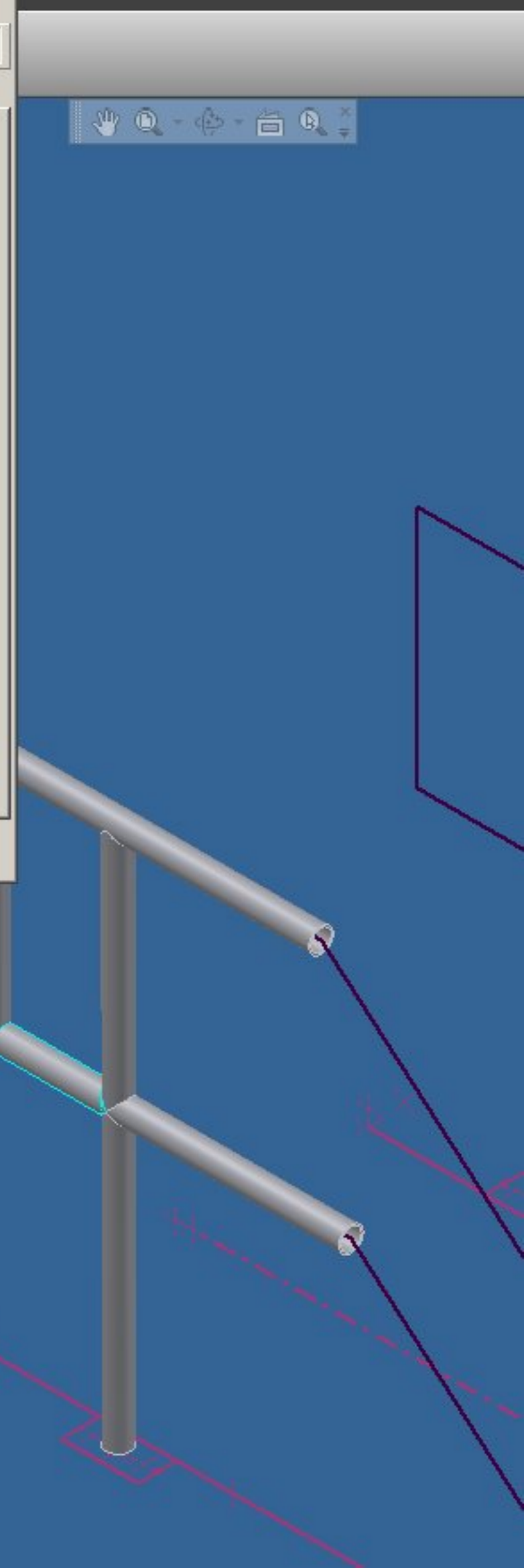
Search bar with a magnifying glass icon and a text input field.

Model Data | Structured (Disabled) | Parts Only

Item	St	Item QTY	Description	NAME	Part Number	Material	Mass	SA
20		1	Pipe	ø1 1/2 x Sch 40-Std-40S - 20.900 in Lg	ANSI Pipe - Steel, A106 - ø1 1_2 Sch...	Steel, A106	4.308 lbmass	
21		1	Pipe	ø1 1/2 x Sch 40-Std-40S - 26.475 in Lg	ANSI Pipe - Steel, A106 - ø1 1_2 Sch...	Steel, A106	5.787 lbmass	
22		1	Pipe	ø1 1/2 x Sch 40-Std-40S - 41.925 in Lg	ANSI Pipe - Steel, A106 - ø1 1_2 Sch...	Steel, A106	9.350 lbmass	
23		1	Pipe	ø1 1/2 x Sch 40-Std-40S - 18.108 in Lg	ANSI Pipe - Steel, A106 - ø1 1_2 Sch...	Steel, A106	3.951 lbmass	
24		1	Pipe	ø1 1/2 x Sch 40-Std-40S - 10.700 in Lg	ANSI Pipe - Steel, A106 - ø1 1_2 Sch...	Steel, A106	2.056 lbmass	

parts resulting from 'change frame members' - from ansi family (different family than previous pics) - note change in units to decimal from fractional (supposed to be fractional to 1/16)

Buttons: Import..., Export..., Done



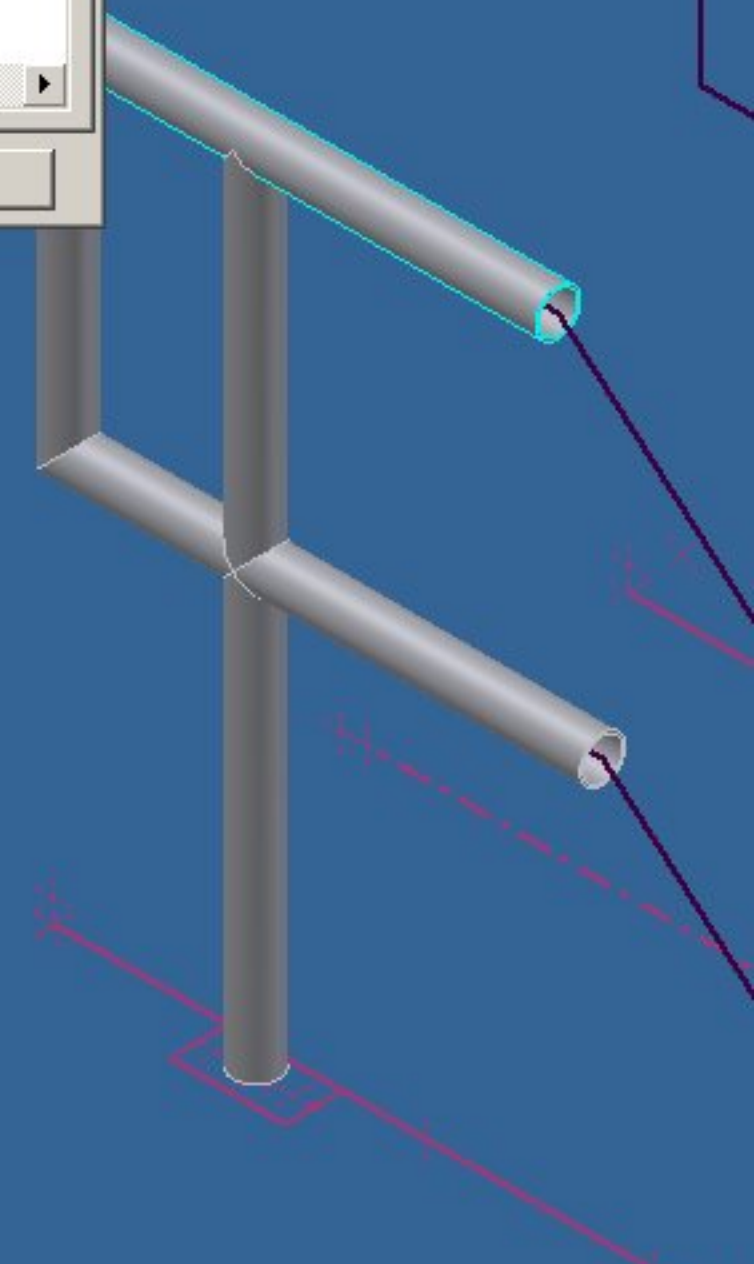
Show Clear

Model Data | Structured (Disabled) | Parts Only

Item	St	Item QTY	Description	NAME	Part Number	Material	Mass	SA
25		1	Pipe	Pipe 2 Sch 40 - 18.108 in Lg	AISC Pipe 2 Sch 40 00000016	Steel, A500	4.921 lbmass	
26		1	Pipe	Pipe 2 Sch 40 - 41.925 in Lg	AISC Pipe 2 Sch 40 00000017	Steel, A500	11.709 lbmass	
27		1	Pipe	Pipe 2 Sch 40 - 10.940 in Lg	AISC Pipe 2 Sch 40 00000018	Steel, A500	2.539 lbmass	
28		1	Pipe	Pipe 2 Sch 40 - 21.380 in Lg	AISC Pipe 2 Sch 40 00000019	Steel, A500	5.415 lbmass	
29		1	Pipe	Pipe 2 Sch 40 - 26.715 in Lg	AISC Pipe 2 Sch 40 00000020	Steel, A500	7.275 lbmass	

parts resulting from 'change frame members' - from aisc family (back to original family) - note units remain the same as previous, but do not take units from c/c iPart (supposed to be fractional to 1/16)

Import...
Export...
Done



Parameter Name	Unit	Equation	Nominal Val	Tol.	Model Valu	E	Comment
Model Parameters							
od	in	2.38 in	2.380000	●	2.380000	<input checked="" type="checkbox"/>	OD
t	in	0.143 in	0.143000	●	0.143000	<input checked="" type="checkbox"/>	Thk
d8	in	-G_OFFSET_START	-0.000000	●	-0.000000	<input type="checkbox"/>	
d9	in	B_L + G_OFFSET_END	12.000000	●	12.000000	<input type="checkbox"/>	
d11	deg	0 deg	0.000000	●	0.000000	<input type="checkbox"/>	
d14	deg	90 deg	90.000000	●	90.000000	<input type="checkbox"/>	
Reference Parameters							
d13	in	12,000 in	12.000000	●	12.000000	<input type="checkbox"/>	
User Parameters							
G_D	in	od	2.380000	●	2.380000	<input checked="" type="checkbox"/>	Outside diameter
G_T	in	t	0.143000	●	0.143000	<input checked="" type="checkbox"/>	Thickness
G_ID	in	G_D - G_T * 2 ul	2.094000	●	2.094000	<input type="checkbox"/>	ID
G_OFFSET_START	in	0.00000000 in	0.000000	●	0.000000	<input type="checkbox"/>	
G_OFFSET_END	in	0.00000000 in	0.000000	●	0.000000	<input type="checkbox"/>	
G_L	in	d13	12.000000	●	12.000000	<input checked="" type="checkbox"/>	Length
B_L	in	12 in					

Custom Property Format

Property Type: **Text**

Units: **in**

Format: **Fractional**

Precision: **1/16**

Apply to existing comparable parameters

Preview: 12

Units String

Leading Zeros

Trailing Zeros

OK Cancel

this is the parameters dialogue showing the previous pic aisc part via 'open from c/' (this is not the part in the model) - notice it's correctly formatted: fractional to 1/16

Display only parameters used in equations

Reset Tolerance



Done

Parameter Name	Unit	Equation	Nominal Val	Tol.	Model Valu	E	Comment
Model Parameters							
od	in	2.38 in	2.380000	●	2.380000	<input checked="" type="checkbox"/>	OD
t	in	0.143 in	0.143000	●	0.143000	<input checked="" type="checkbox"/>	Thk
d8	in	-G_OFFSET_START	-0.000000	●	-0.000000	<input type="checkbox"/>	
d9	in	B_L + G_OFFSET_END	18.108333	●	18.108333	<input type="checkbox"/>	
d11	deg	0 deg	0.000000	●	0.000000	<input type="checkbox"/>	
d14	deg	90 deg	90.000000	●	90.000000	<input type="checkbox"/>	
d19	deg	0 deg	0.000000	●	0.000000	<input type="checkbox"/>	
Reference Parameters							
d13	in	18.108 in	18.108333	●	18.108333	<input type="checkbox"/>	
User Parameters							
G_D	in	od	2.380000	●	2.380000	<input checked="" type="checkbox"/>	Outside diameter
G_T	in	t	0.143000	●	0.143000	<input checked="" type="checkbox"/>	Thickness
G_ID	in	G_D - G_T * 2 ul	2.094000	●	2.094000	<input type="checkbox"/>	ID
G_OFFSET_START	in	0.00000000 in	0.000000	●	0.000000	<input type="checkbox"/>	
G_OFFSET_END	in	0.00000000 in	0.000000	●	0.000000	<input type="checkbox"/>	
G_L	in	d13	18.108333	●	18.108333	<input checked="" type="checkbox"/>	Length
B_L	in	18.10833333 in					

Custom Property Format

Property Type: Text

Units: in

Format: Decimal

Precision: 3.123

Apply to existing comparable parameters

Units String

Leading Zeros

Trailing Zeros

Preview: 18.108 in

this is the parameters dialogue of the part in the model (same family and size as previous pic) - notice it's in the WRONG units format: decimal to 3 places.

APPARENTLY THE FG IS FORCING THIS CHANGE REGARDLESS OF THE C/C PART UNITS FORMATTING.

ALSO NOTE THAT THERE IS NO G_W AND G_H iProperty IN THIS PARAMETERS DIALOGUE. THAT REFLECTS THE DELIBERATE CHANGE I MADE TO THIS FAMILY OF PARTS, IN ORDER TO BE CONSISTENT ACROSS THE BOARD FOR ALL MY iParts:

"G_D" REPRESENTS "DIAMETER" (NOT "DESCRIPTION" / "DESIGNATION") + "G_W" & "G_H" DO NOT REPRESENT "DIAMETER", SO I DELETED THEM FROM THE FAMILY OF PARTS, SINCE "G_W" REPRESENTS "WIDTH" AND "G_H" REPRESENTS "HEIGHT".

HOWEVER, FG OVERRIDES MY iPart COMPLETELY, AND FORCES THE G_W & G_H PARAMETERS INTO THE BOM EVERY TIME, RESULTING IN ADDED WORK FOR ME. WHICH SHOULDN'T EXIST IN THE FIRST PLACE, CONSIDERING THE EDITS I MADE TO THE C/C.