

Technical Note

Title: Importing Steel Section Tables

Date: 5/02/2018

Versions: 2012.08+

Program: All Steelwork

Steel Sections

The MasterSeries allows the user to define their own steel section properties for the predefined section profiles such as **I**, **H**, **L**, **T**, **[** & Hollow sections. This can be done one section at a time and is documented in another technical note.

This document describes how to import whole section tables into the MasterSeries.

1. Create a CSV (comma separated values) table in excel or other document eg

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	name	h	b	s	t	r1	A	P	Iy	Wy	Sy	Iy	Iz	Wz	Iz
2	20W1	193	150	6	9	13	38.95	0.031	2660	275	153	82.6	507	67.6	36.1
3	23W1	226	155	6.5	10	14	46.08	0.036	4260	377	210	96.2	622	80.2	36.7
4	26W1	251	180	7	10	16	54.37	0.043	6225	496	276	107	974	108.2	42.3
5	26W2	255	180	7.5	12	16	62.73	0.049	7429	583	325	108.8	1168	129.8	43.1

2. Correct the headings to match the MasterSeries headers below

"name", "no", "**d**", "**b**", "**tw**", "**t**", "d-f", "**r1**", "r2",
"NomD", "**NomB**", "mass", "area", "ix", "iy", "sx", "sy", "j", "h", "u", "x",
 "kx1", "kx2", "nx", "kx3", "kx4", "ky1", "ky2", "ny", "ky3", "ky4"

"no" is the section number if you wish to use particular numbers.

The MasterSeries can choose its own numbers.

3. Delete any columns you don't need as it is best to import the minimum and allow the MasterSeries to calculate the rest. The headers in bold, above, are the most common.
 - a. Importing **name** will prevent the program making up a name from the dimensions.
 - b. Importing the **Nominal D & B** will reduce confusion when sorting by depth
 - c. Importing **mass** will prevent the program from giving an accurate value eg 1298.87 instead of 1299



	A	B	C	D	E	F	G	H	I
1	name	Mass	NomD	NomB	d	b	tw	t	r1
2	356 x 406 UC 1299	1299	356	406	600.0	476.0	100.0	140.0	15.4
3	356 x 406 UC 1202	1202	356	406	580.0	471.0	95.0	130.0	15.4
4	356 x 406 UC 1086	1086	356	406	569.0	454.0	78.0	125.0	15.0
5	356 x 406 UC 990	990	356	406	550.0	448.0	71.9	115.0	15.0
6	356 x 406 UC 900	900	356	406	531.0	442.0	65.9	106.0	15.0
7	356 x 406 UC 818	818	356	406	514.0	437.0	60.5	97.0	15.0
8	356 x 406 UC 744	744	356	406	498.0	432.0	55.6	88.9	15.0
9	356 x 406 UC 677	677	356	406	483.0	428.0	51.2	81.5	15.0

- 4.

5. Save as a comma delimited txt file using the suffix you want for the section group eg "**MyW.txt**" or "UC.txt".

(MyW will appear later in the section type drop box along with UB, RSJ, W,....).

With some spreadsheets you will need to save as a .CSV file and then rename to a .txt File.

6. Open the MasterSeries.
7. Select Utilities > Open Libraries.
8. Choose an open library database other than the default.
9. Select edit Open Library
10. Choose the Section type eg 
11. Select Import .
12. Choose your txt file to import.
13. Follow the prompts.
14. Wait while the importing & calculating of other properties is done.
15. Exit the database.
16. The imported sections will now be available in the MasterSeries.