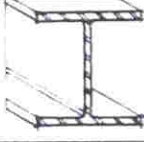

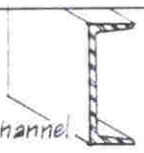


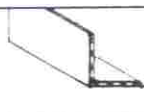
Metals

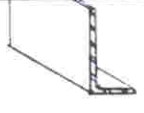
STRUCTURAL STEEL SHAPES

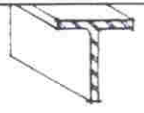
- W shape
Wide flange 

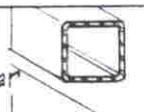

- S shape
American standard 


- C shape
American standard channel 


- L shape
Equal leg angle 

- L shape
Unequal leg angle 

- WT shape
Structural tee
cut from W shape 

- Structural tubing
Square or rectangular 
- Structural tubing
Circular pipe 

- Bars
Square, round, and flat 

- Plate 

Structural Steel Cost

Fixed Base Price

Base Price of Steel	\$25.00/100#
Freight from mill	\$2.00*/100#
Extras	<u>\$3.00*/100#</u>
Base Cost of Steel	\$30.00/100#
Fab Shop Unload	\$1.25/100#
Fab. Shop Painting	\$1.00/100#
Shop Handling	\$0.75/100#
Cutting Shapes	\$1.00/100#
Shop Drawings	<u>\$3.00*/100#</u>
Total Fixed Costs	\$37.00/100#

Fabrication Costs

Plate Beams/Columns	\$5-\$25/100#
S Shapes	\$2.25/100#
W Shapes 4"-18"	\$2.10/100#
W shapes 21"-36"	\$4.50/100#
L shapes	\$3.10/100#
C Shapes	\$2.10/100#
Transport to site	\$2.00*/100#
Shop Overhead	20%
Shop Profit	10%
Total Steel Cost	\$54-\$83/100#
Avg. Steel Cost	\$66/100#

* - Varies (Avg. Shown)

Structural Steel ErectionSkeleton Frame Building (Cost per Ton) Crane on site

Foreman	0.85 Hrs.
Iron Workers	5.95 Hrs. (Includes erection & bolted connections)
(If Crane Required)	Add 0.85 Hrs plus Operator

Wall Bearing Buildings (Cost per Ton) Crane on site

Foreman	1 Hr.
Iron Workers	7 Hrs.
If Crane Required	Add 1 Hr. plus Operator

Lift Crane Operating Costs

Truck Mounted, Cable Operated

10 Ton	\$14.00/Hr
20 Ton	\$21.00/Hr
40 Ton	\$29.00/Hr
60 Ton	\$45.00/Hr

Steel Joist Costs

K	\$875 to \$1225 / Ton
LH	\$930 to 1325 / Ton
DLH	\$885 to 1050 / Ton

Steel Decking Costs

22 Ga.	\$0.96 to \$1.05 / SF
18 Ga.	\$1.46 to \$1.53 / SF

Unit Weight of Steel: 490 Lbs/CF

The information shown was obtained from Walker's Building Estimator's Reference Book, 1999 (among other sources), and is to be used only for classroom purposes and not as a substitute for field experienced estimating techniques or actual material quotes.