

<b>HOT ROLLED STEEL BARS .....</b>	<b>1</b>
<b>COLD FINISHED STEEL BARS .....</b>	<b>2</b>
<b>STEEL STRUCTURALS .....</b>	<b>3</b>
<b>STEEL PLATES .....</b>	<b>4</b>
<b>SHEET AND COIL .....</b>	<b>5</b>
<b>TUBE AND PIPE .....</b>	<b>6</b>
<b>ALUMINUM .....</b>	<b>7</b>
<b>BRASS, BRONZE &amp; COPPER .....</b>	<b>8</b>
<b>NICKEL .....</b>	<b>9</b>
<b>STAINLESS STEEL .....</b>	<b>10</b>
<b>CHAIN .....</b>	<b>11</b>
<b>BARS, SAFETY AND FIBERGLASS GRATING .....</b>	<b>12</b>
<b>EXPANDED MESH .....</b>	<b>13</b>
<b>WEIGHTS AND USEFUL DATA .....</b>	<b>14</b>
<b>PROCESSING SERVICES .....</b>	<b>15</b>

## FOREWORD

This Stock List and Reference Book has been compiled to provide our customers with as complete a picture as possible of the wide variety of Steel, Aluminum, Stainless Steel, Brass, Copper, Nickel, Chain and associated products, and Aircraft Alloys which we carry in stock and the pre-processing services which we are equipped to provide. Most items listed are normally available for immediate shipment.

Our experienced personnel and modern distribution plants ensure efficient handling and rapid shipment of orders.

For ready reference we have included technical information relating to the various products. Bulletins which we have available on request give more detailed information on certain products.

Our staff is available to help with your technical problems and we welcome your inquiries.

We have been serving industry with quality products for over one hundred years and our reputation is your guarantee of satisfaction.

# INDEX

## A

- ABRASION RESISTING STEEL
  - Plate ..... 4-24
- AIRCRAFT SPECIFICATION
  - Stainless Steel ..... 10-22
- AISI & SAE SPECIFICATIONS ... 14-10
- ALLOY
  - Brass, Copper & Bronze ..... 8-53
  - Hot Rolled Steel Bars ..... 1-12, 1-13
  - Slings & Chains ..... 11-5
- ALUMINUM
  - Aluminum Association
    - Designation System ..... 7-3
  - Architectural Shapes ..... 7-31
  - Bend Radii ..... 7-34 to 7-39
  - Chain ..... 11-2
  - Coils
    - Utility Sheet, Van Trailer Sheet,  
Truck Roofing ..... 7-5 to 7-6,  
7-32 to 7-33
  - Chemical Compositions ..... 7-43
  - Expanded Metal Sheets ..... 7-17
  - Information ..... 7-2 to 7-4
  - Magnesium Products,
    - Tool Plate ..... 7-33
  - Mechanical & Physical
    - Properties ..... 7-45 to 7-48
  - Perforated Sheet ..... 7-17
  - Pipe ..... 7-25
  - Plate ..... 7-12 to 7-16
  - Relative Ratings of
    - Wrought Alloys ..... 7-50
  - Rods & Bars ..... 7-19 to 7-22
  - Sheets
    - Prepainted Aluminum,
      - Utility Sheet ..... 7-2, 7-7 to 7-15
    - Structural Shapes ..... 7-27 to 7-30
    - Specifications ..... 7-40 to 7-42
    - Tread Plate ..... 7-18
    - Truck Body Material ..... 7-33
    - Tubing ..... 7-23
    - Weights of Aluminum Strip ..... 7-6
- ALUMINIZED SHEET & COIL ..... 5-22
- ALUMINUM ASSOCIATION
  - ALLOY & TEMPER
  - DESIGNATION SYSTEMS ..... 7-3
- ANGLES
  - Architectural Bronze Extruded .. 8-20
  - Equal Leg Angles ..... 3-7
  - Hot Roll ..... 1-15
  - Stainless Steel ..... 10-18
  - Unequal Leg Angles ..... 3-8
- ASTM
  - ASTM A36 Plates ..... 4-2
  - ASTM A242 Plates ..... 4-8
  - ASTM A283 Plates ..... 4-4
  - ASTM A285 Plates ..... 4-6
  - ASTM A515 Plates ..... 4-10
  - ASTM A516 Plates ..... 4-12

## B

- BARS
  - Hot Roll ..... 1-4
  - Stainless Steel ..... 10-14
- BARS AND SAFETY GRATING
  - Fastening Methods ..... 12-41
  - Part Number Code,
    - Ladder Rungs ..... 12-43
  - Safety Grating Safe Load  
& Deflection
    - 4¾" Wide Channel-
      - 2 Diamond ..... 12-14
    - 5" Wide Channel-2 Hole ..... 12-12
    - 7" Wide Channel-3 Hole ..... 12-16
    - 7" Wide Channel-
      - 3 Diamond ..... 12-18
    - 9½" Wide Channel-
      - 4 Diamond ..... 12-22
    - 10" Wide Channel-5 Hole ... 12-20
    - 11¾" Wide Channel-
      - 5 Diamond ..... 12-26
    - 12" Wide Channel-6 Hole ... 12-24
    - 18" Wide Channel-10 Hole .. 12-28
    - 18¾" Wide Channel-
      - 8 Diamond ..... 12-30
    - 24" Wide Channel-13 Hole ... 12-32
    - 24" Wide Channel-
      - 10 Diamond ..... 12-34
    - 30" Wide Channel-16 Hole ... 12-36
  - Safety Tread ..... 12-42
  - Stair Treads ..... 12-40
  - Walkway Channel ..... 12-37
  - Welded Bar Grating –
    - Typical Details
    - Installation Details ..... 12-10
    - Safe Loads – Imperial ..... 12-6
    - Safe Loads – Metric ..... 12-8
- BEARING PILES ..... 3-27
- BEND RADII ALUMINUM ..... 7-34
- BOILER TUBING ..... 6-52
- BRASS, BRONZE & COPPER
  - Brass
    - Brass Rod ..... 8-3
    - Naval Brass Rod ..... 8-15
    - Rectangular Brass Bar ..... 8-10
    - Red Brass Pipe ..... 8-26
    - Yellow Brass Sheets ..... 8-21
    - Yellow Brass Tube ..... 8-24
  - Bronze
    - Angles, Architectural ..... 8-20
    - Bearing Bronze ..... 8-31
    - Sheet Phosphor Bronze
      - Grade A ..... 8-22
    - Silicon Bronze Rod ..... 8-51
    - Spring Temper Phosphor  
Bronze Strip ..... 8-22
  - Copper
    - Chemical, Physical  
& Fabrication Properties .... 8-55
    - Condenser and Heat  
Exchange Tubes ..... 8-28

# INDEX

## BRASS, BRONZE & COPPER (cont'd)

Copper Bar .....	8-38
Copper Pipe, Seamless .....	8-50
Copper Rod .....	8-51, 8-59 to 8-63
Copper Sheet .....	8-36
Copper Tube, Round, Seamless .....	8-44
Muntz Metal Sheets & Plate .....	8-23
Soft Seamless Copper Tube ..	8-50
Properties, Specifications, Brass, Copper & Bronze Alloys .....	8-52
Temperatures .....	8-54
Tolerances .....	8-57

## C

### CAN/CSA G40.21.92

#### STRUCTURAL QUALITY

STEEL PLATE .....	4-14
-------------------	------

### CHAIN

Blocks .....	11-25
Bolts, Eye .....	11-22
Chain	
Binder .....	11-24
Herc-Alloy 800 Grade 80 .....	11-11
Marine Applications .....	11-15
Stud Link .....	11-15
Truck & Tractor .....	11-16
Types .....	11-12
Clamps, Plate-Beam .....	11-16
General, Purchasing Data, Testing Facilities .....	11-3, 11-7
Hoists, Hand & Electric .....	11-26
Hooks .....	11-17
Links, Connecting & Missing ..	11-18
Load Binders .....	11-24
Rings, Forged & Welded .....	11-21
Shackles, Screw Pin .....	11-19
Sheaves .....	11-25
Slings	
Alloy .....	11-5
Lifting Equipment .....	11-6
Mesh, Wire-Nylon .....	11-23
Safe Working Loads .....	11-24
Working Loads- Grade 30, 40, 70 ..	11-8 to 11-11
Swivels .....	11-23
Turnbuckles .....	11-23
Wire Rope & Fittings .....	11-25

### CHANNELS

Hot Roll .....	1-16
Miscellaneous .....	3-13
Standard .....	3-9

### CHEMICAL COMPOSITION & PROPERTIES

Copper & Copper Alloys .....	8-56
------------------------------	------

### CHEMICAL COMPOSITION & PROPERTIES (cont'd)

Nickel .....	9-20
Plate .....	4-17
Stainless Steel .....	10-27
Wrought Alloys .....	7-43

### CIRCUMFERENCES & AREAS

OF CIRCLES .....	14-15
------------------	-------

### COIL, ALUMINUM .....

### COLD FINISHED STEEL BARS

Approximate Tensile Strengths and Brinells .....	2-16
C1018/C1020	
Rounds, Squares, Flats .....	2-5 to 2-9
C1045 Rounds .....	2-10
C1144 ASTM A311 Rounds .....	2-15
Comparison of Hot Rolled and Cold Finished .....	2-2
Grade Characteristics .....	2-17
Leaded C12L14	
Rounds, Squares, Hexagons .....	2-12, 2-13
Proprietary Specifications .....	2-3
Shafting Precision Ground .....	2-14
Tolerances .....	2-4

### COLD ROLLED SHEET & COIL ...

### CONDENSER TUBING .....

### CONVERSION TABLES .....

### COPPER SHEET .....

### CSA G40.21 PLATE .....

### CUT & STRAIGHTENED

HOT ROLL ROD .....	1-7
--------------------	-----

## D

### DESCRIPTION OF TEMPERS

Sheet & Coil .....	5-26
--------------------	------

### DIAMOND GRIP CHANNEL .....

.....12-22, 12-26, 12-30, 12-34, 12-39	
--	--

## E

### ELECTRODES FOR METAL ARC

WELDING OF CAST IRONS ....	9-25
----------------------------	------

### EXPANDED MESH

Expanded Aluminum – Standard, Flattened .....	13-8
Expanded Mesh Tolerances ...	13-12
Expanded Stainless – Standard, Flattened .....	13-9

### EXPANDED MESH (cont'd)

Expanded Steel – Standard, Flattened .....	13-6, 13-7
---	------------

# INDEX

Expanded Steel Grating .....	13-10
Reinforcing Mesh .....	13-12
Standard Sizes and Styles .....	13-4
Terminology and Types .....	13-3
Perforated Sheets and Plates	
Ornamental Patterns.....	13-15
Patterns of Perforations.....	13-14
Thickness of Metals .....	13-13
<b>EXPANDED METAL</b>	
Aluminum .....	7-17
Stainless Steel .....	10-13

## F

<b>FABRICATION PROPERTIES</b>	
Copper & Copper Alloys .....	8-56
<b>FIBERGLASS GRATING</b>	
Accessories .....	12-45
FRP Related Products .....	12-51
Fiberglass Product Group .....	12-44
Molded Grating.....	12-46, 47
Pultruded Grating.....	12-48 to 12-50
<b>FLATNESS TOLERANCES</b>	
Alloy Plate .....	4-38
Plate .....	4-37
<b>FLATS</b>	
Cold Roll Steel Bar .....	2-9
Hot Roll Steel Bar .....	1-9 to 1-11
<b>FLOOR PLATE</b> .....	4-36

## G

<b>GALVALUME SHEET &amp; COIL</b> ....	5-23
<b>GALVANIZED SHEET &amp; COIL</b> ....	5-15
Galvanized & Alloy Coated .....	5-15
<b>GAUGE CHART</b> ....	Inside Back Cover
<b>GAUGES &amp; TOLERANCES –</b>	
<b>TUBING</b> .....	6-49
<b>GLOSSARY OF TERMS</b> .....	14-3
<b>GRADE 30 REGULAR</b>	
<b>LINK CHAIN</b> .....	11-8
<b>GRADE 40 CHAIN</b> .....	11-9
<b>GRADE 70 CHAIN</b> .....	11-10
<b>GRADE 80 HERC-</b>	
<b>ALLOY CHAIN</b> .....	11-11

## H

<b>HARDNESS CONVERSION</b>	
<b>TABLE</b> .....	14-7

<b>HASTELLOY ALLOY</b>	
“B-2” .....	9-27
C-276 .....	9-29
For Metal Arc Welding .....	9-31
Welding Electrodes .....	9-31
“X” .....	9-30

<b>HEXAGONS</b>	
Brass Rod .....	8-7
Cold Finished Steel Bars .....	2-13
Naval Brass Rod .....	8-18

<b>HONED I.D. CYLINDER</b>	
<b>TUBING</b> .....	6-44

<b>HOT ROLLED STEEL BARS</b>	
AISI 1018/1020	
Rounds .....	1-4 to 1-5
AISI 1045	
Rounds .....	1-5, 1-6
ASTM A-36 or 44W	
Angles, Channels,	
Flats, Rounds, Tees ....	1-4 to 1-16
Bar Specification Data .....	1-2
Cut & Straightened Rod .....	1-7
Grade Descriptions .....	1-2
Reinforcing Bar .....	1-14
SAE 4140-Heat Treated,	
Stress Relieved	
Annealed, Leaded .....	1-12, 1-13
Slit and Edged Bars .....	1-7, 1-8
Specification Metals .....	1-2
Standard Manufacturing	
Tolerances .....	1-3

<b>HYDRAULIC LINE TUBING</b> .....	6-54
------------------------------------	------

## I

<b>I BEAMS</b>	
M Shapes .....	3-42
S Shapes .....	3-28

<b>INCO ALLOYS WELDING</b>	
<b>PRODUCTS</b> .....	9-23

<b>INCOLOY ALLOY</b>	
800 .....	9-18
825 .....	9-18

<b>INCONEL ALLOY</b>	
600 .....	9-11
601 .....	9-12
625 .....	9-14
718 .....	9-16
X-750 .....	9-17

# INDEX

## L

LEADED  
Cold Finished Steel Bars ..... 2-12

LINK & RINGS ..... 11-21

## M

### MECHANICAL PROPERTIES

As Welded & As-Brazed  
Wrought Aluminum Alloys ..... 7-49  
Average Of Various Steels ..... 14-20  
Plate ..... 4-19  
Steel Tubing ..... 6-50  
Wrought Alloys ..... 7-45  
Wrought Rods & Bars ..... 9-22

### MECHANICAL TUBE AND PIPE

Boiler Tubing ..... 6-52  
Condenser Tubing ..... 6-53  
Honed I.D. Cylinder Tubing ..... 6-44  
Hydraulic Line Tubing ..... 6-54  
Mechanical Tubing General, Physical Properties,  
Tolerances ..... 6-18, 6-33  
Pipe  
General Tolerances ..... 6-60  
Redkote Tubing ..... 6-12  
Russ-Weld Tubing ..... 6-11  
Structural Tubing General,  
Tolerances ..... 6-3, 6-13  
Welded Mechanical Tubing  
Square and Rectangle  
General, Physical Properties,  
Tolerances ..... 6-5, 6-13, 6-50

MECHANICAL TUBING ..... 6-18

### METRIC SYSTEM

EQUIVALENTS ..... 14-22

### MONEL ALLOY 400,

K-500, R405 ..... 9-4, 9-5, 9-8, 9-9

## N

### NICKEL

Hastelloy Alloys  
Hastelloy Alloy B-2 ..... 9-27  
Hastelloy Alloy C-276 ..... 9-28  
Hastelloy Alloy Welding  
Products ..... 9-31  
Hastelloy Alloy X ..... 9-30  
List of Other Hastelloy  
Alloys Available ..... 9-30  
Primary Nickel Huntington Alloys  
Available Forms ..... 9-22  
Chemical Composition ..... 9-20  
Commercial Forms of Refined  
Nickel for Alloying ..... 9-25

NICKEL (cont'd)

Incoloy Alloy 800 ..... 9-18  
Incoloy Alloy 825 ..... 9-18  
Inconel Alloy 600 ..... 9-10  
Inconel Alloy 601 ..... 9-12  
Inconel Alloy 625 ..... 9-14  
Inconel Alloy 718 ..... 9-16  
Inconel Alloy X750 ..... 9-17  
Mechanical Properties ..... 9-22  
Monel Alloy 400 ..... 9-4  
Monel Alloy K-500 ..... 9-9  
Monel Alloy R405 ..... 9-8  
Nickel Alloy 200 ..... 9-3  
Welding Products ..... 9-23

### NOMINAL PROPERTIES –

AISI STAINLESS STEELS ..... 10-29

### NUMERICAL EQUIVALENTS

OF FRACTIONS, DECIMALS  
& MILLIMETERS ..... 14-24

## O

### OPEN STEEL FLOOR

GRATING ..... 12-4

## P

### PERFORATED ALUMINUM

SHEET ..... 7-17

### PERFORATED SHEETS AND PLATES

Ornamental Patterns ..... 13-15  
Patterns of Perforations ..... 13-14  
Specifications/Thicknesses/  
Perforations ..... 13-13

### PHYSICAL PROPERTIES

Cold Drawn & Hot Finished  
Seamless  
Mechanical Tubing ..... 6-37  
Copper & Copper Alloys ..... 8-56  
Wrought Alloys ..... 7-47

### PIPE

Aluminum ..... 7-25  
Copper ..... 8-51  
Red Brass ..... 8-26  
Stainless Steel ..... 10-23

PIPE SCHEDULE ..... 6-56

### PRECISION GROUND SHAFTING

Cold Finished Steel Bar ..... 2-14

### PROCESSING SERVICES

Metals Processing Services ..... 15-2  
Rolled Rings ..... 15-3  
Selection Chart for  
Plate Shapes ..... 15-4 to 15-8  
Selection Chart for  
Formed Plates ..... 15-9 to 15-11

# INDEX

## Q

QUENCHED & TEMPERED STEEL  
Plate ..... 4-25

## R

RECTANGULAR STRUCTURAL  
TUBING ..... 6-7

REDKOTE TUBING ..... 6-12

REINFORCED BARS  
Hot Roll ..... 1-14

REINFORCING MESH ..... 13-12

ROD & BAR – ALUMINUM ..... 7-19

ROUND STRUCTURAL  
Brass Bar ..... 8-10  
Copper Bar ..... 8-38  
Tubing ..... 6-3

ROUNDS  
Brass Rod ..... 8-3  
Cold Drawn Nickel ..... 9-9  
Cold Roll Steel Bars ..... 2-5  
Hot Roll Steel Bars ..... 1-4, 1-5  
Low Silicon Bronze Rod ..... 8-51  
Naval Brass ..... 8-15  
Phosphor Bronze Rod ..... 8-19  
SAE-660 ASTM A505-C93200  
Continuous Cast Bearing  
Bronze ..... 8-31  
Seamless Yellow Brass Tube .... 8-24

RUSS-WELD STRUCTURAL  
TUBING ..... 6-11

## S

SAFE WORKING INTERNAL  
PRESSURES OF  
SEAMLESS TUBE ..... 8-47

SAFETY GRATING ..... 12-11

SAFETY GRIP CHANNEL  
..... 12-12, 12-16, 12-20  
..... 12-24, 12-28, 12-32, 12-36

SAFETY TREAD ..... 12-42

SAMPLE BLOCKS ..... 11-25

SCREW PIN CHAIN  
SHACKLES ..... 11-19

SHEET AND COIL  
Aluminized Coil and Sheet ..... 5-22  
Cold Rolled Coil and Sheet  
General, Tolerances .. 5-11 to 5-14  
Galvanized Coil  
and Sheet General  
Tolerances ..... 5-15 to 5-21

SHEET AND COIL (cont'd)  
Galvanized and Alloy Coated  
Weight Per Sheet ..... 5-4  
Galvalume Coil and Sheet ..... 5-23  
General Information ..... 5-25  
Hot and Cold Rolled,  
Weight Per Sheet ..... 5-4  
Hot Rolled Coil and Sheet  
General, Tolerances ... 5-6 to 5-10  
Sheet and Coil, Weight  
Per Square Foot ..... 5-3  
Specialty Steels ..... 5-24

SHEET AND PLATE  
A365 Muntz Metal ..... 8-23  
Aluminum ..... 7-7  
Cartridge Brass ..... 8-21  
Phosphor Bronze ..... 8-22  
Stainless Steel ..... 10-7

SHOULDER NUT EYE BOLT .... 11-22

SLIT & EDGE BAR ..... 1-7, 1-8

SPECIALTY SHEET & COIL ..... 5-24

SQUARE E.R.W. TUBING ..... 6-46

SQUARES  
Brass Rod ..... 8-9  
Cold Finished Steel Bars ..... 2-8  
Hot Roll Steel Bars ..... 1-6  
Structural Tubing ..... 6-40

STAINLESS STEEL  
Aircraft Specifications ..... 10-22  
AISI Stainless Type Numbers 10-27  
Bars  
Angles, Rounds, Squares,  
Hexagons, Flats .... 10-14 to 10-18  
Coils ..... 10-12  
Expanded Metal ..... 10-13  
'Ezeform' Sheet (in coils) ..... 10-7  
Finishes ..... 10-4  
General Guide to Use,  
Austenitic, Ferritic ..... 10-2  
Nominal Properties ..... 10-29  
Ornamental Tubing ..... 10-25  
Pipe ..... 10-23  
Plates ..... 10-5  
Sheets ..... 10-7  
Tubing ..... 10-19  
Tolerances ..... 10-33  
Weights, Sheets & Plate ..... 10-26

STAIR TREADS ..... 12-40

STEEL PLATES  
ASTM A36, ASTM A283,  
ASTM A285,  
ASTM A242 ..... 4-2 to 4-8  
CSA G40.21.92,  
CSA 640.21.92 ..... 4-14, 4-23  
Floor Plate ..... 4-36

# INDEX

STEEL PLATES (cont'd)	
Pressure Vessel Quality Plate	
ASTM A-285, ASTM A-515,	
ASTM A-516 .....	4-6, 4-10, 4-12
Quenched & Tempered Steel Plate	
Abrasion Resistant.....	4-25 to 4-28
Steel Plate Weight Chart .....	4-29
Tolerances .....	4-37
STEEL STRUCTURALS	
CSA G40.21 .....	3-3 to 3-6
Angles, Structural .....	3-7 to 3-8
Channels	
Miscellaneous .....	3-11 to 3-13
Standard .....	3-9 to 3-10
Light Wide	
Flange Beams.....	3-9 to 3-15
Wide Flange Beams.....	3-16 to 3-26
Wide Flange Jumbo .....	3-26
Bearing Piles.....	3-27
Standard I-Beams .....	3-28 to 3-31
Miscellaneous Beams .....	3-32
Welded Wide	
Flange Beams.....	3-33 to 3-39
STRUCTURAL QUALITY	
STEELS – PLATE .....	4-14
STRUCTURAL SHAPES –	
ALUMINUM .....	7-27
STRUCTURAL TUBING .....	6-3
STUD LINK CHAIN	
& ANCHORS .....	11-15
<b>T</b>	
TEES – HOT ROLL .....	1-16
TENSILE STRENGTH	
& BRINNEL HARDNESS	
COLD FINISHED STEEL .....	2-16
TESTING AND INSPECTION –	
CHAIN .....	11-7
TOLERANCES	
Bar .....	10-36
Cold Rolled Sheet & Coil .....	5-12
C.R.E.W. – H.R.E.W. Tubing .....	6-48
D.O.M. Tubing .....	6-40
Galvanized Sheet & Coil .....	5-18
Hollow Structural Sections .....	6-14
Hot Rolled Sheet & Coil .....	5-7
Pipe .....	6-60
Seamless Tubing .....	6-33
Square & Rectangular Tubing ..	6-15
Stainless Steel Plate .....	10-39
Stainless Steel Sheet .....	10-33
Stainless Steel Tubing .....	10-40
TOLERANCES (cont'd)	
Yellow Brass, Red Brass,	
Commercial Bronze	
and Copper .....	8-58

TOOLING PLATE .....	7-33
TREAD PLATE – ALUMINUM .....	7-18
TUBING	
Aluminum .....	7-23
Condenser & Heat Exchange ...	8-28
Round Seamless Copper .....	8-44
Soft Seamless Copper .....	8-50
Stainless Steel .....	10-19
TURNBUCKLES .....	11-23

## U

USEFUL INFORMATION .....	14-2
--------------------------	------

## V

VAN TRAILER SHEET –	
ALUMINUM .....	7-33

## W

W SHAPES .....	3-26
----------------	------

### WEIGHT CHART

Expanded Mesh .....	13-6
Pipe .....	6-56
Plate .....	4-29
Sheet & Coil .....	5-3
Stainless Steel .....	10-26

### WEIGHTS AND USEFUL DATA

Circumference & Areas	
of Circles .....	14-15
Gauge Chart .....	Inside Back Cover
Glossary of Terms .....	14-3
Hardness Conversion Table .....	14-7
Inches Into Decimals	
of a Foot .....	14-9
Mechanical Properties	
of Various Steels .....	14-20
Metric System Equivalents .....	14-22
Numerical Equivalents .....	14-24
Specifications, AISI & SAE .....	14-10
Standard Abbreviations .....	14-5
Useful Information .....	14-2

WELDED BAR GRATING .....	12-5
--------------------------	------

### WELDED WIDE FLANGE

BEAMS .....	3-32
-------------	------

WIDE FLANGE BEAMS .....	3-14
-------------------------	------

WIRE ROPE & FITTINGS .....	11-25
----------------------------	-------

## **PRODUCT LIABILITY**

Data and information contained in this manual has been collected from the most up-to-date publications and to the best of our knowledge is correct.

As we have no control on the generation of this data and/or information, Russel Metals Inc. takes no responsibility for its accuracy. (See our Standard Terms and Conditions of Sale.)

Please consult our nearest office for technical advice if you have a design or end use problem.

This Reference Book may not be reproduced in any form without the express written permission of Russel Metals. Russel Metals shall not be held responsible for any claims, actions or suits arising from the publication or distribution to any person of the Reference Book or any statement made or technical data supplied herein. The information contained herein is for the sole benefit of the recipient.