Based on the CRSI the ACI and the ASTM Standards Builder's Book, Inc. 200637088 - Postulada 200637088 - 1-818-887-7828



REINFORCING BARS (REBAR) BASICS & IDENTIFICATION

REINFORCING BAR (REBAR) BASICS

- . Rebar is short for minforcing bar.
- Rebail is also known as reinfarcing steel and reinfarcement steel.
- Return is a steel bar or mech of steel wires, used as a teroich-device in reinforced concets and reinforced resource structures.
- Rebar is used to strengther and hold the concrete in compression.
- Concrete is strong under compression, but has weak tensile strength.
- Peter significantly increases the tensile strength of the structure.
- Rebar's serface is offen patterned to form a better band with the concrete.
 - The deformed pattern on a reter helps concrete achieve to the reter surface.
 - Specific pattern is not specified but specing and the begits of the "bumps" is regulated.
- Most common type of rebair is carbon steet.
 Other readily available retain types include:
 - sharriess sheet, galvanized obest, appropriately, state carbon divorsions, etc.

ASTR BUILD	of Calegory	C BARRIE	CH POURS	
Bar Sine	Norsinal Dimensions			
Designation	607	200	(in.)	
43	0.91	0.376	4.00%	
	0.20	0.008	0.500	
+5	4.34	1.043	0.605	
200	-646	to 1500	9.8947	
47.45	0.86	EFE:044	0.675	
.00	1.75	2:570	1.000-0	
	1000	35,800	1300	
110	127	4.300	1110.00	
475	154	19.303	1,000	
8.95	734	FIG	1,693	
	4.00	15.60	2.267	

The current ACE contribution covers by case, YM and YM in Grade 62 and tag colors YM, YM and YM in Grade 77. The current ACM operationation covers the color YM and YM. The current ACM operation covers the color YM and YM. They come will diverge YM are not contributed in the ACM.

REINFORCING BAR IDENTIFICATION

- The ACTM specifications for reinforcing bars require clerification marks to be rolled into the surface or one side of the bar to denote the Producer's mill designation, bur size, type of steel and minutum yeeld designation.
- Required Workfloation Workings on Reinforcing Bars:

Tel: Marking - Point of Origin / Producing Milli Lefter(a) or symbol(a) of producing real

2nd Marking - Size Designation

Bar Size Number (#3 frough #1), #16, #16 [#10 through #57]:

3rd Marking - Type of Reinforcing Steel

Type of Steel usually either "S" for carbon-cleer (ASTM ASTS) or "W" for low-citing steel (ASTM ASTS).

- S Carbon-Steel (A015/A015M):
- A Aude-Steel (A996/A996At)
- W Low-Alloy Sheet (A708)/A706M1
- SS Stainless Steel (ASSS/ASSSAt)
- CS Low-Carbon Chromium (A1035/A3035M)
- R or X Rail-Steel (A996/A996M)

4th Marking - Yield Strength Designation

- Minorum Yand (Compth Designation, Grace Marking (60, 75, 60, 100, 500) or by the addition strate line (60) or two-lines (70, 600e) lines (60, 100) or fore lines (60) that must be at least the determination tons.
- Grade 50 bits can either have one single langitudinal line (a grade land or the a vetter 60 (a grade mark).
- Grade 25 hars can either have two grade lines or the grade mark 25.
- A grade line is tending and a located between the two manlong-battes non-shape are on appeals sides of all burs noted in the p. 5.
- Algoride line must be continued through at least 5 deformation species and it may be placed on the came pide of the bar as the other markings or on the opposite side.
- Grade 40 and 50 hars are required to have only the first three identification marks; the grade work or grade line for mariemum yield attempts designation is required.
- Bar identification marks can be oriented vertically (as illustrated on this page) or horizontally (at 90° to these illustrated).
- Grade mark numbers must be placed within separate consecutive distribution spaces to read vertically or horizontalls.

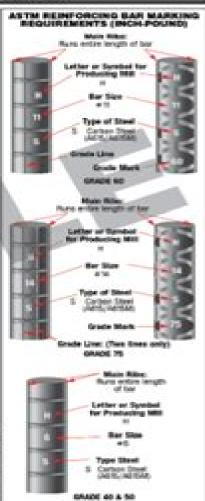
ANTH REINFORCING BARE (MINK)				
Bar Silve Designation	ATT	Service Control	Diameter (rem)	
A 103	The second	0.560	9.5	
4.0	125	0.964	10.7	
4/96	199	1.5652	0.9	
479	284	2.206	10.1	
400	267	3.040	22.2	
40.7%	140	3.973	25.4	
9/279	10405	5.000	20.7	
930	1000	6.404	30.3	
4000	1006	7907	20.8	
#40	1452	10.38	43.0	
497	25691	26.34	623	

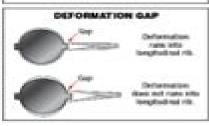
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See Sine	Max. Average Specifing (Inches)	Min. Average Beight (Inches)	Ohan, Gap (Smithers)
estern)	0.242	0.0%	8340
PERMIT	0.550	0.000	0.90
#5 [#30]	0.407	0.036	0.239
WELL THE	0.50%	0.000	0.296
RT [3420]	0.602	0.041	0.334
## [#25]	0.750	9.050	0.563
#91#29E	0.790	0.006	0.438
#10 [#30]	0.000	0.094	9.467
# 9 [#OK]	0.007	0.071	0.540
*14.1*420	1.005	0.085	0.640
#10 (#SZ) :	1.58	101982	0.864





Crsi Detailing Manual

United States. Forest Service. Engineering Staff

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SP-66(04): ACI Detailing Manual-2004. CRSI Recommended Practice for Placing Reinforcing Bars Concrete Reinforcing Steel Institute, Raymond C. Reese, 1959 Manual of Standard Practice Concrete Reinforcing Steel Building Code Requirements for Structural Concrete (ACI 318-05) and Commentary (ACI Institute.2003 **318R-05)** ACI Committee 318,2005 Building Code Requirements for Structural Concrete (ACI 318-08) and Commentary ACI Committee 318, American Concrete Institute, 2008 The quality and testing of materials used in construction are covered by reference to the appropriate ASTM standard specifications Welding of reinforcement is covered by reference to the appropriate AWS standard Uses of the Code include adoption by reference in general building codes and earlier editions have been widely used in this manner The Code is written in a format that allows such reference without change to its language Therefore background details or suggestions for carrying out the requirements or intent of the Code portion cannot be included The Commentary is provided for this purpose Some of the considerations of the committee in developing the Code portion are discussed within the Commentary with emphasis given to the explanation of new or revised provisions Much of the research data referenced in preparing the Code is cited for the user desiring to study individual questions in greater detail Other documents that provide suggestions for carrying out the requirements of the Code are also cited

State and Local Highway Training and Technology Resources, 1989 This directory brings together training resource data as reported from technology transfer centers state highway agencies professional organizations universities and the Federal Highway Administration It gives specific information on available training resources on bridges drainage engineering equipment management other resources road surface roadside safety subgrade traffic control and winter Structural Design Guide to the ACI Building Code Edward S. Hoffman, David P. Gustafson, Albert J. Gouwens, 2013-03-09 This book is intended to guide practicing structural engineers familiar with ear lier ACI building codes into more profitable routine designs with the ACI 1995 Building Code ACI 318 95 Each new ACI Building Code expresses the latest knowledge of reinforced concrete in legal language for safe design application Beginning in 1956 with the introduction of ultimate strength design each new code offered better utilization of high strength reinforcement and the compressive strength of the concrete itself Each new code thus permitted more economy as to construction material but achieved it through more detailed and complicated design calculations In addition to competition requiring independent structural engineers to follow the latest code for economy it created a professional obligation to follow the latest code for accepted levels of structural safety The increasing complexity of codes has encouraged the use of computers for design and has stimulated the development of computer based handbooks Before computer software can be successfully used in the structural design of buildings preliminary sizes of structural elements must be established from handbook tables estimates or experienced first quesses for Reinforcing Bar Detailing ,1988 input into the com puter Building Inspection Manual Karl F. Schmid, 2014-06-24 This

new book synthesizes a wide range of interdisciplinary literature to provide the state of the art of biomedical implants It discusses materials and explains the three basic requirements for implant success from a surface engineering perspective biological compatibility biomechanical compatibility morphological compatibility Biomedical mechanical and materials engineers will find this book indispensable for understanding proper treatment of implant surfaces in order to achieve clinical success Highlights include Coverage of surface engineering of polymer metallic ceramic and composite implant materials Coverage of chemical mechanical physical thermal and combined surface modification technologies Explanations of interfacial reaction between vital tissue and non vital implant surface and Methodologies and technologies for modification of surface layer zone to promote the osteo integration the ultimate success for biomedical implants in both dental and medical practice

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