

NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS S-W-7.101-GS/PL
		Former Designation: ESP-W-7.101-GS
TITLE: Brackets – Flat and Angle - English Series	CURRENT REV No.: 1506	DATE: June 2015
WRITTEN/EDITED BY: Materials Engineering	APPROVED BY: Materials Engineering	SUPERSEDES: ESP-W-7.101-GS - September 2000
PRINTED COPIES OF THIS DOCUMENT MUST BE VERIFIED FOR CURRENT REVISION		
<i>This specification may involve hazardous materials, equipment, and procedures. This specification does not purport to address all of the safety issues associated with its use. The user is responsible to consult appropriate safety and health practices and to determine the applicability of regulatory limits prior to use.</i>		
Change Notice: Changed to New MPAPS format; Combined GS, PP.		

- 1.0 GENERAL:** This standard consists of parts of flat stock and flat stock angle formed. The parts are used to connect to parts of a structure for stiffening purposes or to maintain or hold a secondary part in a predetermined position. For standard listing purposes and selection, these parts are called Brackets, Flat or Angle, instead of Angle, Bar, Strip, Strap, Support, etc.
- 2.0 RESTRICTED CHEMICAL SUBSTANCES:** Effective January 1, 2007, all product supplied to the requirements of this specification must comply with the requirements of the MPAPS B-50 specification.
- 3.0 DESIGN PARAMETERS:** To qualify for this standard, the following design parameters must be adhered to:

Material:	Steel (STL)
Finish:	Plain (PLN)
Span Dimensions:	1/8 Inch Increments
Mounting Holes Location:	On Center Line (1/2 of Width)

- 4.0 DIMENSIONAL TOLERANCES:** See illustrations below.
- 5.0 MOUNTING HOLES:** See following chart:

Fastener Size	Hole Diameter
#6, #68	.156, .172
#10, .188	.203, .218
.250	.281
.312	.344
.375	.406
.438	.468
.500	.531
.625	.656
1.000	Max Hole Punch Size

- 6.0 MATERIAL:** Per MPAPS A-6, Grade 1 or Grade 2.
- 7.0 FINISH:** Parts will be furnished plain.
- 8.0 WORKMANSHIP:** Parts will be free from burrs and other defects that might affect their serviceability.

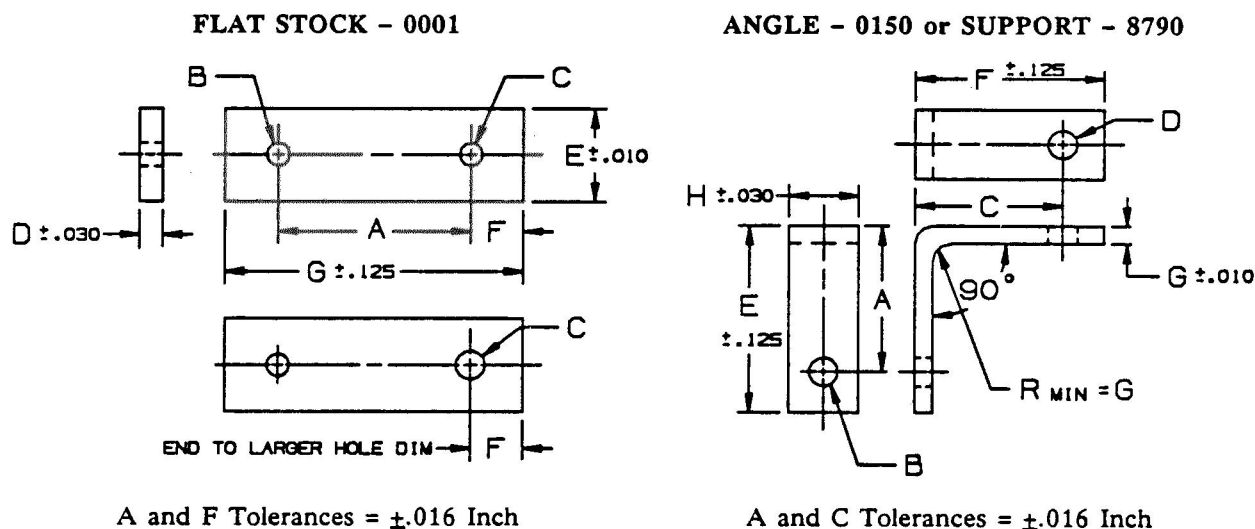
This document is restricted and may not be sent outside Navistar, Inc. or reproduced without permission from Corporate Technical Standards. Suppliers are required to assume all patent liability. ©2015 by Navistar, Inc.

JUNE 2015

NUMBER: MPAPS S-W-7.101-GS/PL	TITLE: Brackets – Flat and Angle	REVISION: 1506
---	--	--------------------------

9.0 POLICY FOR SELECTING PARTS FOR NEW DESIGN: Approved parts are so designated to reduce variety of parts and assure maximum availability, interchangeability, and cost savings in volume buying.

For new design, parts shall be selected from "Approved" part list only.



10.0 BRACKETS – FLAT – 2 HOLE (NOUN CODE 0001):

10.1 Part List:

10.1.1 Approved:

A-HOLE SPAN	B-HOLE C-HOLE	D-THICK E-WIDTH	F-CTR END	G LENGTH	PART NUMBER
1.000	.28 - .28	.12 - .750	.312	1.625	138044H
1.000	.41 - .41	.25 - 1.00	.563	2.125	201906C1
1.500	.34 - .41	.18 - .625	.375	2.250	211205R1
2.000	.28 - .28	.12 - .750	.375	2.750	432013C1
3.250	.28 - .53	.12 - .875	.500	4.125	767099C1
3.500	.28 - .53	.12 - 1.00	.500	4.312	379351C1
4.000	.53 - .53	.20 - 1.80	.750	5.500	76891R2
5.000	.28 - .34	.12 - .750	.375	5.750	270220C1
5.000	.41 - .41	.12 - .750	.375	5.750	137802R1
6.500	.28 - .53	.12 - 1.00	.562	7.438	681928R1

See section 11.0 for Brackets – Angle – 2 Hole.

This document is restricted and may not be sent outside Navistar, Inc. or reproduced without permission from Corporate Technical Standards. Suppliers are required to assume all patent liability. ©2015 by Navistar, Inc.

JUNE 2015