

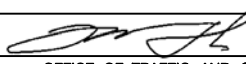

**MATERIAL LIST FOR 6" AND 8" STEEL I-BEAM SIGN POSTS
OR 5" AND 6" SQUARE TUBE SIGN POSTS (B-525)**

ITEM	DESCRIPTION	SIZE /SPECIFICATIONS	QTY./POST	PART NO.
①	BRACKET, TYPE B525	6061-T6 ALUMINUM (SEE BRACKET SELECTION TABLE FOR -NUMBER)	2	SBBK525-1A,-2A,-3A
②	BRACKET HARDWARE ASSEMBLY, TYPE B525, INCLUDES:		1	SB-B525LPH
②a	BOLT	1/2" - 13 UNC x 2 1/2" HEX HD., ASTM A325, GALV. ASTM A153	4	
②b	BOLT	1/2" - 13 UNC x 2 3/4" HEX HD., ASTM A325, GALV. ASTM A153	4	
②c	BOLT	1/2" - 13 UNC x 3" HEX HD., ASTM A325, GALV. ASTM A153	4	
②d	CAP SCREW	1/2" - 13 UNC x 1 1/4" HEX HD., ASTM A307, GALV. ASTM A153	4	
②e	LOCKWASHER	1/2", ANSI B18-21-1, GALV. ASTM A153	16	
②f	NUT	1/2" - 13 UNC, HEAVY HEX, ASTM A563 GR. DH, GALV. ASTM A153	12	
③	COUPLING & SPECIAL BOLT ASSEMBLY, TYPE B, INCLUDES:		1	SB-CBLP
③a	SPECIAL BOLT	1" - 8 UNC, ASTM A449, GALV. ASTM A153/B695	4	
③b	COUPLING	1" - 8 UNC, LP., AMS 6378D *, GALV. ASTM A153, POLYESTER COAT	4	
③c	SHIM	1" HORSESHOE, 14 GAUGE, GALV. STEEL SHEET	2	
③d	SHIM	1" HORSESHOE, 18 GAUGE, GALV. STEEL SHEET	2	
④	HINGE ASSEMBLY, TYPE B525, INCLUDES:		1	SB-HB1
④a	HINGE PLATE	TYPE B525, AISI 4130 STEEL, GALV. ASTM A123	4	
⑤	HINGE HARDWARE ASSEMBLY, TYPE B, INCLUDES:		1	SB-HHB
⑤a	BOLT	HINGE, 3/4" - 10 UNC x 2 1/4" HEX HD., ASTM A325, GALV. ASTM A153	8	
⑤b	LOCKWASHER	3/4", ANSI B18-21-1, GALV. ASTM A153	8	
⑤c	NUT	3/4" - 10 UNC, HEAVY HEX, ASTM A563, GR. DH, GALV. ASTM A153	8	
⑥	ANCHOR ASSEMBLY, TYPE B, INCLUDES:		1	SBABPK
⑥a	ANCHOR	1"-8 UNC, 304 STAINLESS STEEL FERRULE, AISI 1045 ROD, AISI 1008 COIL	4	

**MATERIAL LIST FOR 10", 12", 14", 16", 18" AND 21" STEEL I-BEAM
SIGN POSTS OR 7" AND 8" SQUARE TUBE SIGN POSTS (B-650)**

ITEM	DESCRIPTION	SIZE /SPECIFICATIONS	QTY./POST	PART NO.
①	BRACKET, TYPE B650	6061-T6 ALUMINUM (SEE BRACKET SELECTION TABLE FOR -NUMBER)	2	SBBK650-1A,-2A,-3A
②	BRACKET HARDWARE ASSEMBLY, TYPE B650, INCLUDES:		1	SB-B650LPH
②a	BOLT	5/8" - 11 UNC x 2 3/4" HEX HD., ASTM A325, GALV. ASTM A153	4	
②b	BOLT	5/8" - 11 UNC x 3" HEX HD., ASTM A325, GALV. ASTM A153	4	
②c	BOLT	5/8" - 11 UNC x 3 1/4" HEX HD., ASTM A325, GALV. ASTM A153	4	
②d	CAP SCREW	5/8" - 11 UNC x 1 1/4" HEX HD., ASTM A307, GALV. ASTM A153	4	
②e	LOCKWASHER	5/8", ANSI B18-21-1, GALV. ASTM A153	16	
②f	NUT	5/8" - 11 UNC, HEAVY HEX, ASTM A563 GR. DH, GALV. ASTM A153	12	
③	COUPLING & SPECIAL BOLT ASSEMBLY, TYPE B, INCLUDES:		1	SB-CBLP
③a	SPECIAL BOLT	1" - 8 UNC, ASTM A449, GALV. ASTM A153/B695	4	
③b	COUPLING	1" - 8 UNC, LP., AMS 6378D *, GALV. ASTM A153, POLYESTER COAT	4	
③c	SHIM	1" HORSESHOE, 14 GAUGE, GALV. STEEL SHEET	2	
③d	SHIM	1" HORSESHOE, 18 GAUGE, GALV. STEEL SHEET	2	
④	HINGE ASSEMBLY, TYPE B650, INCLUDES:		1	SB-HB2
④a	HINGE PLATE	TYPE B650, AISI 4130 STEEL, GALV. ASTM A123	4	
⑤	HINGE HARDWARE ASSEMBLY, TYPE B, INCLUDES:		1	SB-HHB
⑤a	BOLT	HINGE, 3/4" - 10 UNC x 2 1/4" HEX HD., ASTM A325, GALV. ASTM A153	8	
⑤b	LOCKWASHER	3/4", ANSI B18-21-1, GALV. ASTM A153	8	
⑤c	NUT	3/4" - 10 UNC, HEAVY HEX, ASTM A563, GR. DH, GALV. ASTM A153	8	
⑥	ANCHOR ASSEMBLY, TYPE B, INCLUDES:		1	SBABPK
⑥a	ANCHOR	1"-8 UNC, 304 STAINLESS STEEL FERRULE, AISI 1045 ROD, AISI 1008 COIL	4	

* WITH EXCEPTIONS TO DECARBURIZATION AND MACROSTRUCTURE CLAUSES.

SPECIFICATION 821	CATEGORY CODE ITEMS
APPROVED	 DIRECTOR - OFFICE OF TRAFFIC AND SAFETY
	APPROVAL • SHA REVISIONS
	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION
	APPROVAL 5-17-07
	APPROVAL 5-2-07
REVISD 3-22-10	REVISD 3-10-10
REVISD	REVISD
REVISD	REVISD

**Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION**
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

**BREAKAWAY BASE SUPPORT SYSTEM 'B'
FOR HIGHWAY SIGNS**

STANDARD NO. MD 821.03-04