

HINGES USED FOR
MULTI-POST SIGNS ONLY

HINGE

4 IN. (102 MM)
SQUARE TUBE POST

SPECIAL
BOLT

BRACKET

COUPLING

ANCHORS FMA01a
FOR CONCRETE FOUNDATION

BREAK-SAFE[®] AS4/AS4-H SYSTEM



SSC04a-b

SHEET NO.

DATE:

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SPECIFICATIONS

Break-Safe Model AS4/AS4-H is an omni-directional, bolt-on breakaway system for use with 4 in. (102 mm) deep steel or aluminum, single (SSC04a) or multiple (SSC04b), ground-mounted square tube sign posts. There is no welding required. The system uses concrete foundations and does not require initial or continued bolt torque maintenance. It is installed flush with the top of the foundation minimizing the possibility of snagging of the vehicle undercarriage.

The system activates when hit from any direction at bumper height causing the frangible couplings and hinges (used only on multi-post signs) to break, usually, without damaging the sign panel or sign posts. This allows for quick and easy re-deployment of the sign by on-site replacement of the frangible components.

The system has been evaluated in accordance with NCHRP Report 350 guidelines and has met or exceeded all requirements of AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. It has also been approved by FHWA for use on Federal Aid projects.

NOTE:

Manufacturer's Sign-Post Selection Program is available and recommended for proper post and breakaway system design.

COMPONENTS

<u>Designator</u>	<u>Component</u>	<u>Description</u>	<u>Quantity</u>
FMA01a	Anchor	304 Stainless Steel Ferrule	4
-	Bracket	6061-T6 Extruded Aluminum	2
-	Coupling	AMS 6378F Steel	4
-	Hinge	AISI 4140	4
-	Special Bolt	ASTM A449	4
-	Fasteners	ASTM A325	8
-	Shims	Galvanized Steel Sheet	4
-	Post	By Others	1

REFERENCES

L.A. Staron, Breakaway Sign Supports, Geometrics and Roadside Design Acceptance Letter Number SS-17, Federal Highway Administration, January 8, 1990; SS-17A Federal Highway Administration, March 7, 1995; SS-17B Federal Highway Administration, April 25, 1995.

Michael S. Griffith, Breakaway Sign Supports, Geometrics and Roadside Design Acceptance Letter Number SS-17C, Federal Highway Administration, August 6, 2003.

CONTACT INFORMATION

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