MASON INDUSTRIES, Inc.
Manufacturers of Vibration Control Products

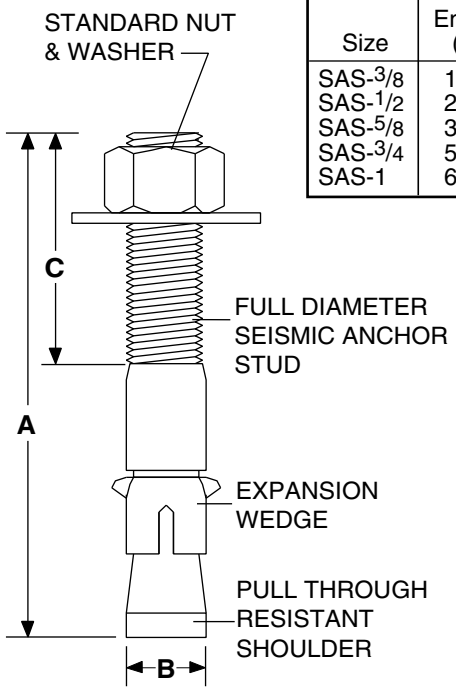
350 Rabro Drive
Hauppauge, NY 11788
631/348-0282
FAX 631/348-0279
Info@Mason-Ind.com

2101 W. Crescent Ave., Suite D
Anaheim, CA 92801
714/535-2727
FAX 714/535-5738
Info@MasonAnaheim.com

CERTIFIED FOR
JOB NAME :
CUSTOMER :
CUSTOMER P.O. :
MASON M.I. :
DWG. NO. :

TYPE
SAS
Certified Seismic Anchor Stud with Nut Washer

ALL PARTS ELECTROPLATED



TYPE SAS ANCHOR STUD RATINGS installed into Stone Aggregate Concrete

Size	Minimum Anchor Embedment (in) *(mm)*	Minimum Edge Distance (in) *(mm)*	Minimum Anchor Spacing (in) *(mm)*	Concrete Type: 3000 psi *(20 Mpa)* Tension* (lbs) *(kg)†*	3000 psi *(20 Mpa)* Shear (lbs) *(kg)†*	4000 psi (27 Mpa) Tension* (lbs) *(kg)†*	4000 psi (27 Mpa) Shear (lbs) *(kg)†*
SAS-3/8	1 3/4 *44*	2 5/8 *67*	5 1/4 *133*	445 *202*	765 *347*	450 *204*	770 *349*
SAS-1/2	2 3/4 *70*	3 3/4 *95*	7 1/2 *191*	820 *372*	1540 *699*	850 *386*	1565 *710*
SAS-5/8	3 1/4 *83*	4 7/8 *124*	9 3/4 *248*	1210 *549*	2285 *1025*	1295 *587*	2440 *1107*
SAS-3/4	5 *127*	5 5/8 *143*	11 1/4 *286*	1545 *701*	3675 *1667*	1625 *737*	3965 *1798*
SAS-1	6 3/4 *171*	6 *152*	12 *305*	— —	— —	4815 *2184*	9355 *4243*

*These tension values are applicable when the anchors are installed without special inspection as set forth in Section 1701.1 of the UBC. When anchors are installed with special inspection as set forth in Section 1701.1 of the UBC, the tabulated values may be increased by 100%.

† For kN divide kg by 102

Notes:

The tabulated values are for anchors installed at the specified spacings and edge distances. Spacings may be reduced by 50% provided the shear and tension values are reduced by 40%. Edge distances may be reduced by 50% provided the tension values are reduced by 40% and the shear values are reduced by 50%. Linear interpolation may be used for intermediate spacings.

For combined tension and shear forces on anchors, use the following equations:
$(P_s/P_t)^{5/3} + (V_s/V_t)^{5/3} \leq 1.0$, where: P_s and V_s are Applied Forces
and P_t and V_t are Allowable Forces
Ratings may be increased 33 1/3% to accomodate periodic forces such as wind or seismic loads. Tabulated values include a safety factor of 8 to 1 for tension forces and 4 to 1 for shear forces.

TYPE SAS ANCHOR STUD DIMENSIONS

Size	A (in)	A *(mm)*	B (in)	B *(mm)*	C (in)	C *(mm)*
SAS-3/8	3	*76*	3/8	*10*	1 1/4	*32*
SAS-1/2	4 1/4	*108*	1/2	*13*	1 1/2	*38*
SAS-5/8	5	*127*	5/8	*16*	1 3/4	*44*
SAS-3/4	7	*178*	3/4	*19*	2	*51*
SAS-1	9	*229*	1	*25*	2 1/4	*57*

CERTIFICATION DATA

DWN :	CHKD :	DATE :	DWG NO. :