

Reference: Vibratory Stress Relief of Welded Parts, American Society for Testing and Materials, Philadelphia 1988

Mechanical Relaxation of Residual Stresses: FORMULA 62, SRE, Stress Relief Engineering Company, California USA

Measurement of Residual Stresses: X-ray Stress Measurements

Work piece: Unalloyed steel sheet, dimension 500 x 150 x 25 mm. Weld in longitudinal direction

mm	0	2,5	5	7,5	10	12,5	15	17,5	20	22,5	25	27,5	30
Initial Residual Stress $\sigma$	0	-80	-100	0	270	120	60	40	25	15	10	5	0
Stress After Vibratory Stress Relief	0	-70	-90	0	80	73	51	35	20	12	5	1	0
Stress After Heat Treatment	0	-20	-30	0	50	41	28	17,5	8	0	-5	-7,5	-10

