

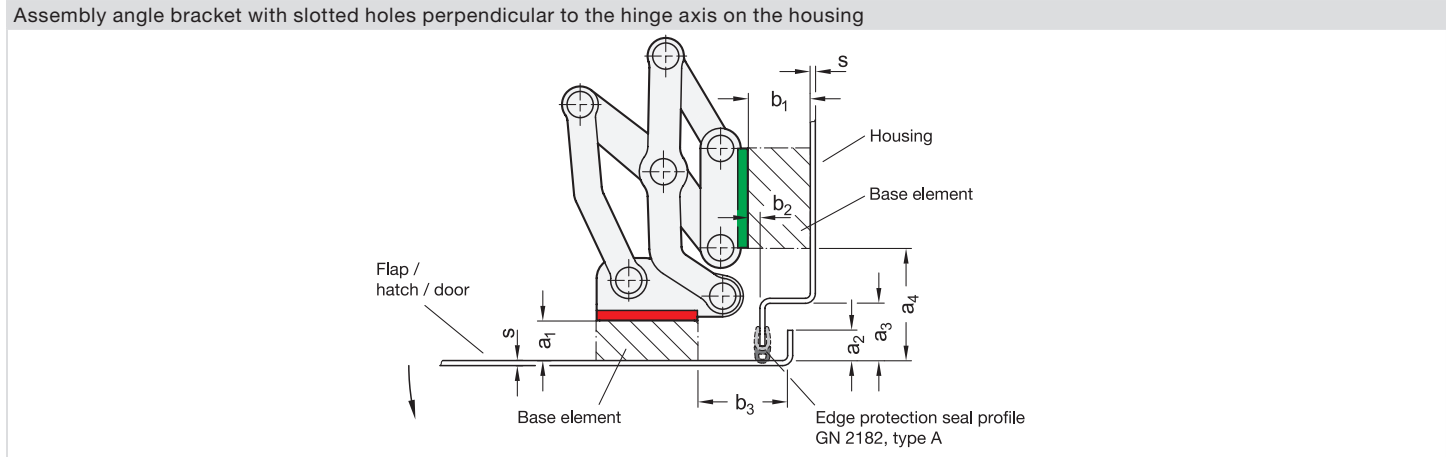
GN 7237 Multiple-Joint Hinges

Application Examples / Design Variants for Sheet Metal Constructions

Four common sheet metal designs are shown below as examples of many possibilities. They show the installation of a type L hinge which is also valid for type R. Multiple-joint hinges can be mounted to the housing by means of the assembly angle bracket with slotted holes that are either perpendicular or parallel to the hinge axis. This results in different pivoting characteristics. Recesses within the movement range of the hinge arms as well as enlarged base elements open up additional design possibilities.

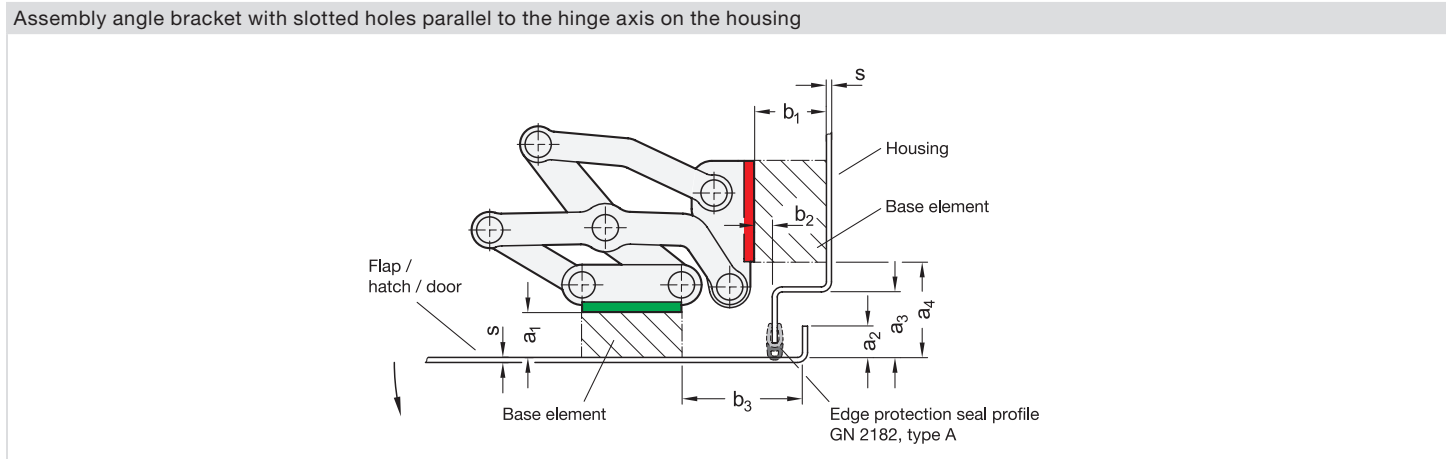
The final functional test must be done by the user either with a CAD program or a test setup because various factors, such as the compression of the edge protection seal profiles, adjustment options, or part tolerances cannot be entirely taken into account.

Example 1 - Externally attached door with edge protection seal on the housing



Dimensions in: millimeters - inches

l_1	a_1	a_2	a_3	a_4	b_1	b_2	b_3	s
40 1.57	14.5 0.57	10 0.39	16 - 35 0.63 - 1.38	43 1.69	14 - ∞ 0.55 - ∞	0 0	28.5 1.12	1.5 0.06
50 1.97	19 0.75	12 0.47	16 - 48 0.63 - 1.89	55 2.17	14 - ∞ 0.55 - ∞	0 0	38 1.50	2 0.08
60 2.36	28 1.10	20 0.79	22 - 70 0.87 - 2.76	77 3.03	17 - ∞ 0.67 - ∞	2 0.08	45 1.77	2 0.08

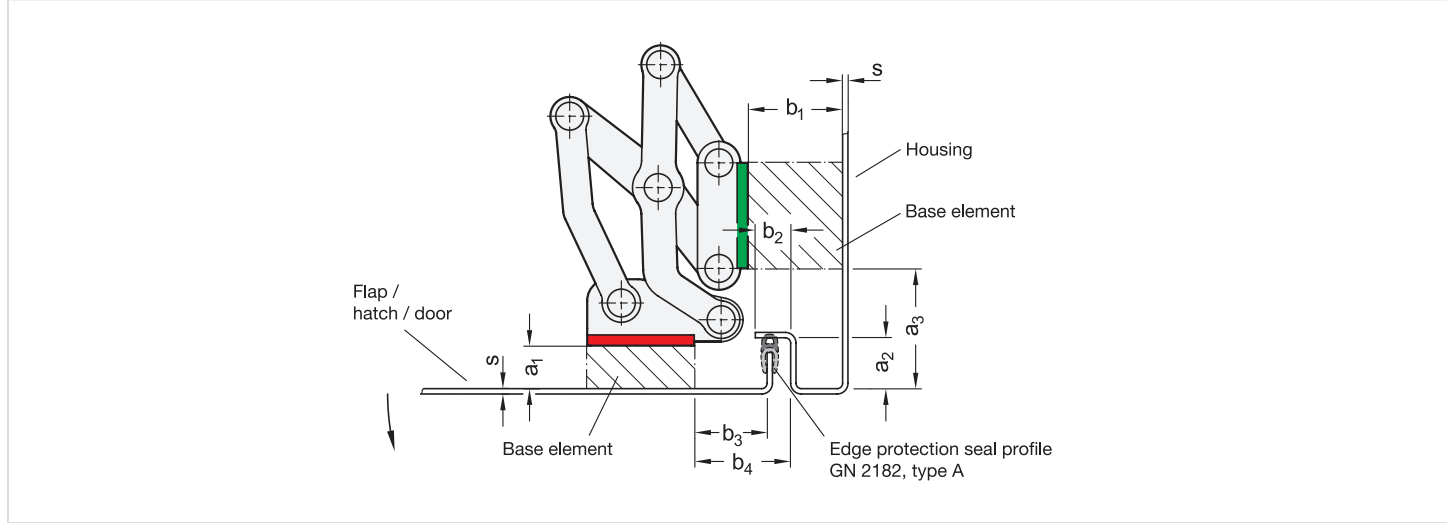


Dimensions in: millimeters - inches

l_1	a_1	a_2	a_3	a_4	b_1	b_2	b_3	s
40 1.57	-	-	-	-	-	-	-	-
50 1.97	17 0.67	10 0.39	17 - 35 0.67 - 1.38	42 1.65	14 - ∞ 0.55 - ∞	0 0	50 1.97	2 0.08
60 2.36	25 0.98	14 0.55	25 - 46 0.98 - 1.81	53 2.09	19 - ∞ 0.75 - ∞	2 0.08	68 2.68	2 0.08

Example 2 - Embedded door with edge protection seal on the flap / hatch / door

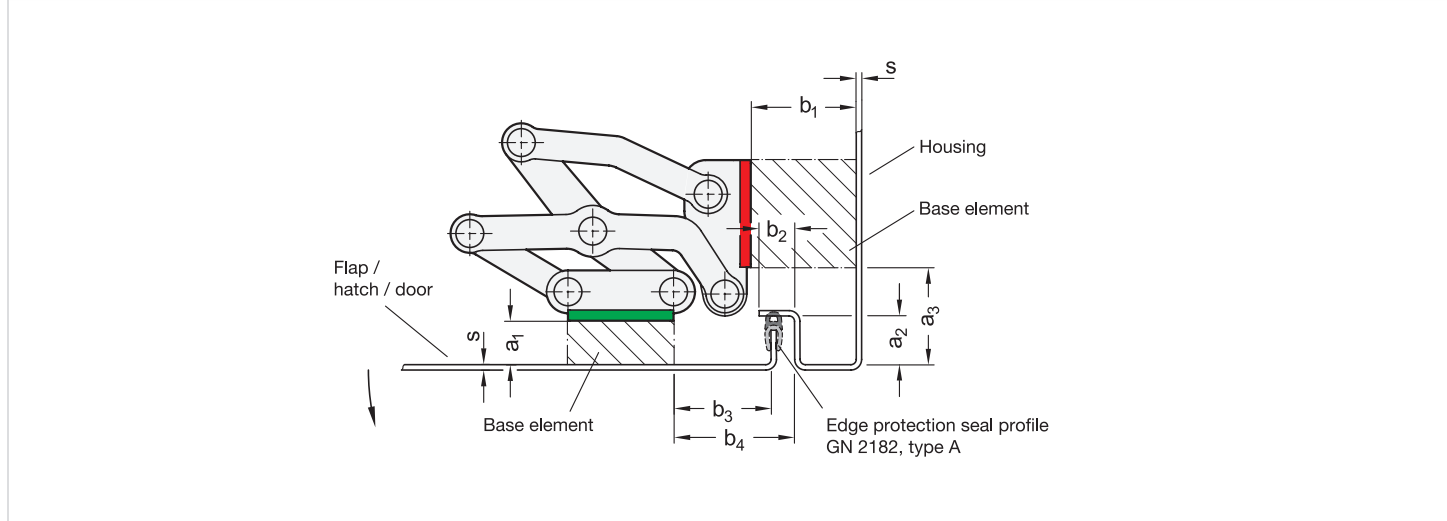
Assembly angle bracket with slotted holes perpendicular to the hinge axis on the housing



Dimensions in: millimeters - inches

l_1	a_1	a_2	a_3	b_1	b_2	b_3	b_4	s
40 1.57	-	-	-	-	-	-	-	-
50 1.97	16 0.63	19 0.75	52 2.05	34 - ∞ 1.34 - ∞	12 0.47	27 1.06	35 1.38	2 0.08
60 2.36	22 0.87	27 1.06	71 2.80	42 - ∞ 1.65 - ∞	14 0.55	30 1.18	38 1.50	2 0.08

Assembly angle bracket with slotted holes parallel to the hinge axis on the housing

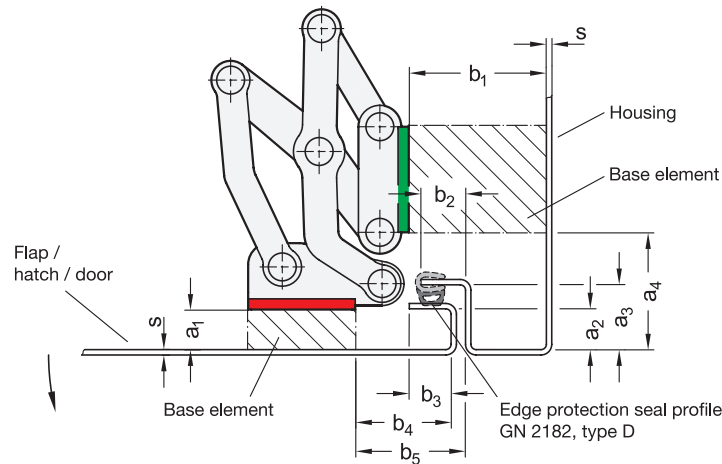


Dimensions in: millimeters - inches

l_1	a_1	a_2	a_3	b_1	b_2	b_3	b_4	s
40 1.57	-	-	-	-	-	-	-	-
50 1.97	11 0.43	16 0.63	36 1.42	32 - ∞ 1.26 - ∞	12 0.47	40 1.57	47 1.85	2 0.08
60 2.36	16 0.63	21 0.83	44 1.73	38 - ∞ 1.50 - ∞	14 0.55	52 2.05	60 2.36	2 0.08

Example 3 - Embedded door with edge protection seal on the housing

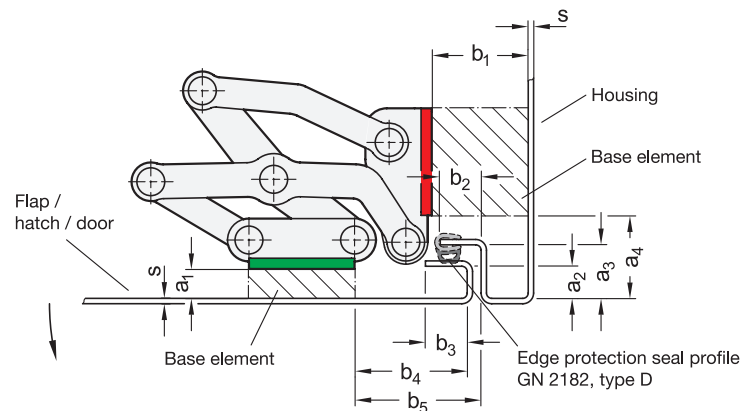
Assembly angle bracket with slotted holes perpendicular to the hinge axis on the housing



Dimensions in: millimeters - inches

l_1	a_1	a_2	a_3	a_4	b_1	b_2	b_3	b_4	b_5	s
40 1.57	-	-	-	-	-	-	-	-	-	-
50 1.97	14 0.55	14 0.55	22 0.87	50 1.97	43 - ∞ 1.69 - ∞	15 0.59	14 0.55	38 1.50	42 1.65	2 0.08
60 2.36	21 0.83	24 0.94	32 1.26	70 2.76	52 - ∞ 2.05 - ∞	16 0.63	16 0.63	40 1.57	44 1.73	2 0.08

Assembly angle bracket with slotted holes parallel to the hinge axis on the housing

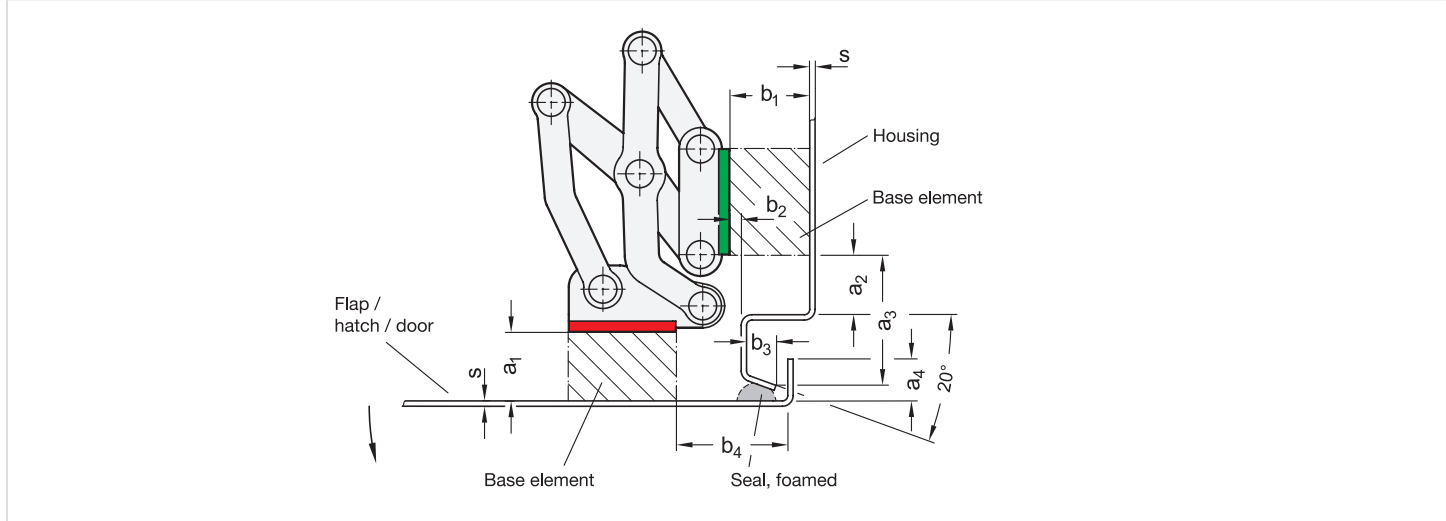


Dimensions in: millimeters - inches

l_1	a_1	a_2	a_3	a_4	b_1	b_2	b_3	b_4	b_5	s
40 1.57	-	-	-	-	-	-	-	-	-	-
50 1.97	11 0.43	12 0.47	20 0.79	36 1.42	40 - ∞ 1.57 - ∞	14 0.55	12 0.47	47 1.85	51 2.01	2 0.08
60 2.36	16 0.63	20 0.79	28 1.10	44 1.73	50 - ∞ 1.97 - ∞	16 0.63	16 0.63	63 2.48	67 2.64	2 0.08

Example 4 - Embedded door with foamed seal on the flap / hatch / door

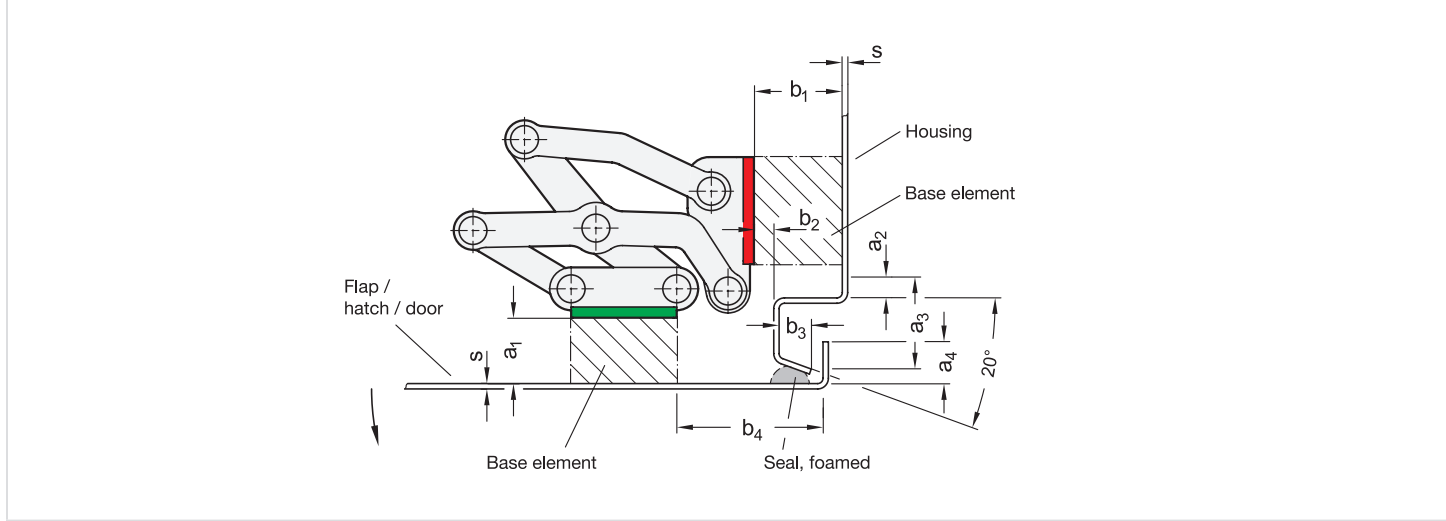
Assembly angle bracket with slotted holes perpendicular to the hinge axis on the housing



Dimensions in: millimeters - inches

l_1	a_1	a_2	a_3	a_4	b_1	b_2	b_3	b_4	s
40 1.57	22 0.87	5 - 25 0.20 - 0.98	46.9 1.85	10 0.39	14 - ∞ 0.55 - ∞	0	8 0.31	30 1.18	1.5 0.06
50 1.97	31 1.22	5 - 33 0.20 - 1.30	63.3 2.49	14 0.55	18 - ∞ 0.71 - ∞	2 0.08	12 0.47	43 1.69	2 0.08
60 2.36	40 1.57	5 - 47 0.20 - 1.85	85.1 3.35	22 0.87	19 - ∞ 0.75 - ∞	2 0.08	14 0.55	48 1.89	2 0.08

Assembly angle bracket with slotted holes parallel to the hinge axis on the housing



Dimensions in: millimeters - inches

l_1	a_1	a_2	a_3	a_4	b_1	b_2	b_3	b_4	s
40 1.57	-	-	-	-	-	-	-	-	-
50 1.97	26 1.02	5 - 21 0.20 - 0.83	47 1.85	12 0.47	20 - ∞ 0.79 - ∞	4 0.16	11 0.43	56 2.20	2 0.08
60 2.36	35 1.38	5 - 24 0.20 - 0.94	59 2.32	20 0.79	24 - ∞ 0.94 - ∞	5 0.20	14 0.55	73 2.87	2 0.08