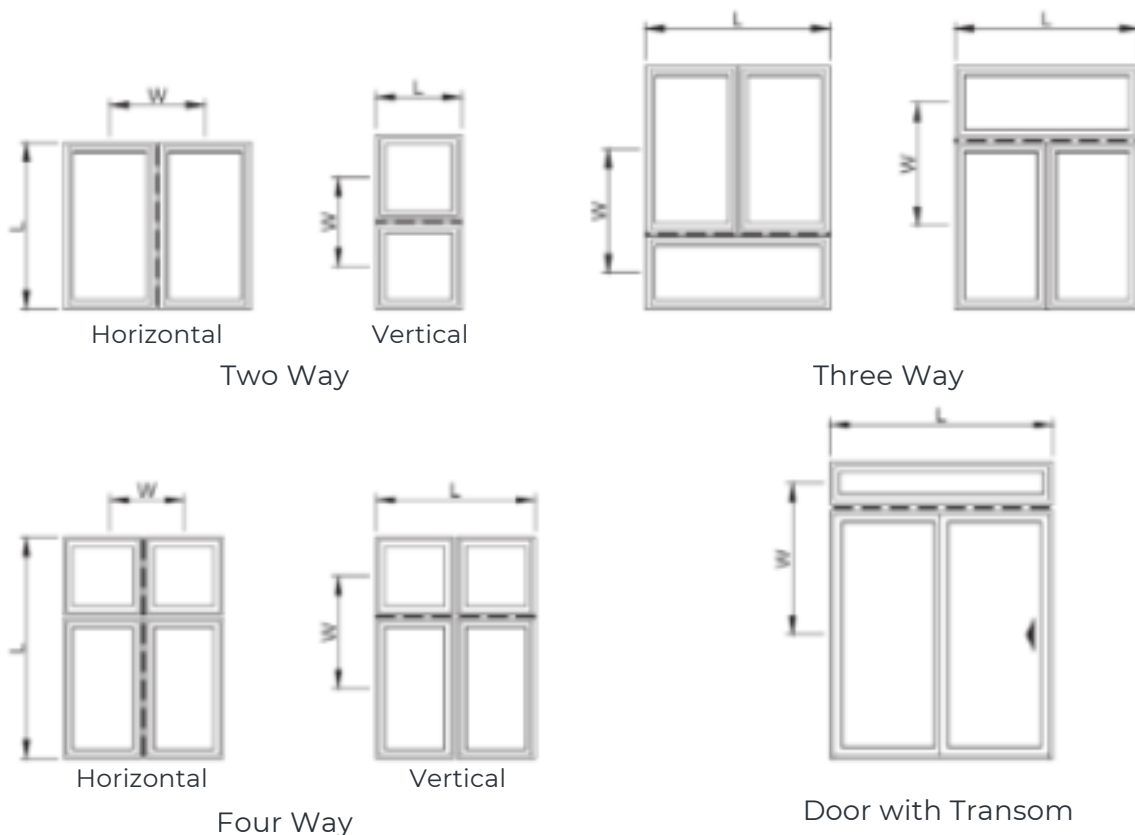


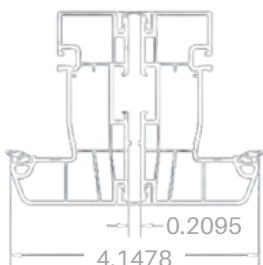


NOTE:

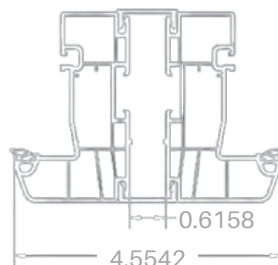
- Use the set of tables for your desired deflection requirement. One table demonstrates $L/175$ (CW) peak deflection rating. The other table employs a European load deflection standard of $L/150$ peak deflection
- This is for reference on mulling limitations ONLY. Please also consider min/max, weight, etc.
- Your assembly will take the rating of whichever is less, the lowest performing window or the mullion
- Minimum DP for CW qualification is DP30. Cells with values < 30 are greyed out

$$\text{Load Width (W)} = (1/2 * \text{Unit 1 Width}) + (1/2 * \text{Unit 2 Width})$$

Tight Mull



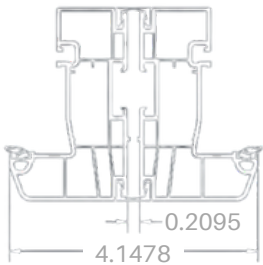
Innergy Mull/Structural Mulls



L/175 (CW) peak deflection rating

TIGHT MULL (L/175)													
LOAD WIDTH (W)													
L (IN)	30	36	42	48	54	60	66	72	78	84	90	96	102
60	20	15	15	15	15	15	10	10	5	5	5	5	5
62	20	15	15	10	10	10	10	5	5	5	5	5	5
64	15	15	10	10	10	10	5	5	5	5	5	5	5
66	15	10	10	10	10	10	10	5	5	5	5	5	5
68	10	10	10	10	10	5	5	5	5	5	5	5	5
70	10	10	10	5	5	5	5	5	5	5	5	NA	NA
72	10	10	5	5	5	5	5	5	5	5	NA	NA	NA
74	10	5	5	5	5	5	5	5	5	NA	NA	NA	NA
76	10	5	5	5	5	5	5	5	5	NA	NA	NA	NA
78	5	5	5	5	5	5	5	5	5	NA	NA	NA	NA
80	5	5	5	5	5	5	5	5	NA	NA	NA	NA	NA
82	5	5	5	5	5	NA	NA	NA	NA	NA	NA	NA	NA
84	5	5	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
86	5	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
88	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
90	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
92	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
94	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
96	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
108	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
112	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
116	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
118	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
124	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

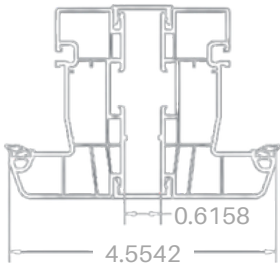
Tight Mull



L/175 (CW) peak deflection rating

INNERGY MULL (L/175)													
LOAD WIDTH (W)													
L (IN)	30	36	42	48	54	60	66	72	78	84	90	96	102
60	60	60	60	60	60	60	60	60	55	50	50	45	45
62	60	60	60	60	60	60	60	55	50	45	45	40	40
64	60	60	60	60	60	60	55	50	45	45	40	35	35
66	60	60	60	60	60	60	60	45	40	40	35	35	30
68	60	60	60	60	60	55	55	40	40	35	35	30	30
70	60	60	60	55	55	50	50	40	35	30	30	30	25
72	60	60	55	50	50	45	45	45	30	30	25	25	25
74	60	60	50	45	45	40	40	40	30	25	25	25	20
76	60	55	45	40	40	35	35	35	30	25	25	20	20
78	55	50	45	40	35	35	30	30	30	25	20	20	20
80	50	45	40	35	30	30	30	30	30	20	20	20	15
82	50	40	35	30	30	30	25	25	25	20	20	15	15
84	45	40	35	30	25	25	25	25	25	25	15	15	15
86	40	35	30	25	25	25	20	20	20	20	15	15	15
88	40	30	30	25	25	20	20	20	20	20	15	15	10
90	35	30	25	25	20	20	20	15	15	15	15	10	10
92	35	30	25	20	20	20	15	15	15	15	15	10	10
94	30	25	20	20	20	15	15	15	15	15	15	10	10
96	30	25	20	20	15	15	15	15	15	10	10	10	10
102	25	20	15	15	15	10	10	10	10	10	10	10	10
104	20	20	15	15	10	10	10	10	10	10	10	10	10
106	20	15	15	15	10	10	10	10	10	10	10	5	5
108	20	15	15	10	10	10	10	10	10	5	5	5	5
110	20	15	15	10	10	10	10	5	5	5	5	5	5
112	15	15	10	10	10	10	5	5	5	5	5	5	5
114	15	15	10	10	10	10	5	5	5	5	5	5	5
116	15	10	10	10	10	5	5	5	5	5	5	5	5
118	15	10	10	10	5	5	5	5	5	5	5	5	5
120	15	10	10	10	5	5	5	5	5	5	5	5	5
124	10	10	10	5	5	5	5	5	5	5	5	5	5

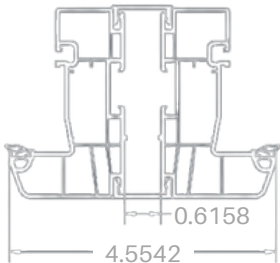
Innergy Mull/Structural Mulls



L/175 (CW) peak deflection rating

3/16 STRUCTURAL MULL (L/175)													
LOAD WIDTH (W)													
L (IN)	30	36	42	48	54	60	66	72	78	84	90	96	102
60	60	60	60	60	60	60	60	60	60	60	60	60	60
62	60	60	60	60	60	60	60	60	60	60	60	55	55
64	60	60	60	60	60	60	60	60	60	60	55	50	50
66	60	60	60	60	60	60	60	60	60	55	50	45	45
68	60	60	60	60	60	60	60	60	55	50	45	45	40
70	60	60	60	60	60	60	60	55	50	45	40	40	35
72	60	60	60	60	60	60	60	60	45	40	40	35	35
74	60	60	60	60	60	55	55	55	40	35	35	30	30
76	60	60	60	60	55	50	50	50	35	35	30	30	30
78	60	60	60	55	50	45	45	45	45	30	30	25	25
80	60	60	55	50	45	40	40	40	40	30	25	25	25
82	60	55	50	45	40	40	35	35	35	30	25	25	20
84	60	50	45	40	40	35	35	30	30	30	25	20	20
86	55	50	40	40	35	30	30	30	30	30	20	20	20
88	55	45	40	35	30	30	30	25	25	25	20	20	15
90	50	40	35	30	30	25	25	25	25	25	25	15	15
92	45	40	35	30	25	25	25	25	20	20	20	15	15
94	45	35	30	30	25	25	20	20	20	20	20	15	15
96	40	35	30	25	25	20	20	20	20	20	20	15	15
102	35	25	25	20	20	15	15	15	15	15	15	15	15
104	30	25	20	20	15	15	15	15	15	15	10	10	10
106	30	25	20	20	15	15	15	15	10	10	10	10	10
108	25	25	20	15	15	15	15	10	10	10	10	10	10
110	25	20	20	15	15	15	10	10	10	10	10	10	10
112	25	20	15	15	15	10	10	10	10	10	10	10	10
114	25	20	15	15	10	10	10	10	10	10	10	10	10
116	20	20	15	15	10	10	10	10	10	10	5	5	5
118	20	15	15	10	10	10	10	10	10	5	5	5	5
120	20	15	15	10	10	10	10	10	5	5	5	5	5
124	15	15	10	10	10	10	5	5	5	5	5	5	5

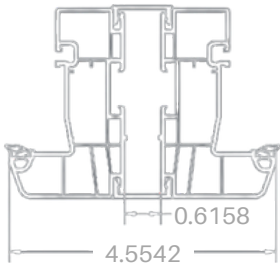
Innergy Mull/Structural Mulls

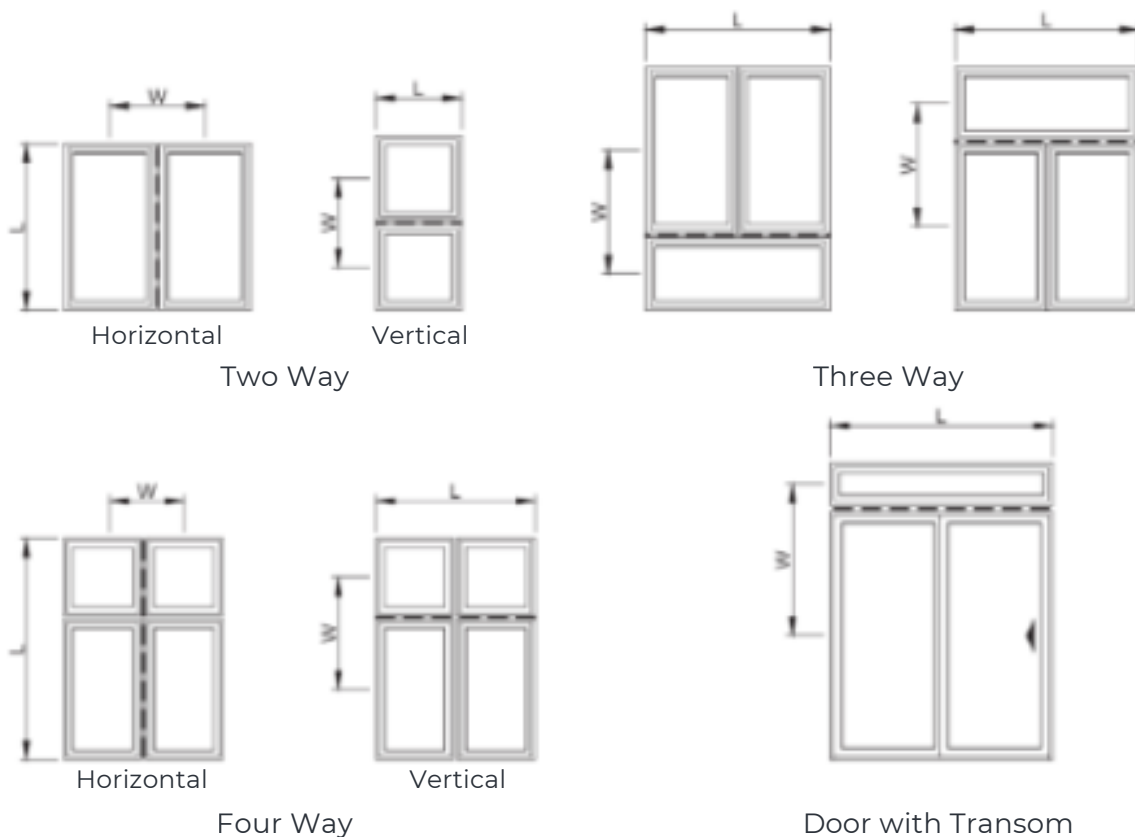


L/175 (CW) peak deflection rating

½ STRUCTURAL MULL (L/175)													
LOAD WIDTH (W)													
L (IN)	30	36	42	48	54	60	66	72	78	84	90	96	102
60	60	60	60	60	60	60	60	60	60	60	60	60	60
62	60	60	60	60	60	60	60	60	60	60	60	60	60
64	60	60	60	60	60	60	60	60	60	60	60	60	60
66	60	60	60	60	60	60	60	60	60	60	60	60	60
68	60	60	60	60	60	60	60	60	60	60	60	60	60
70	60	60	60	60	60	60	60	60	60	60	60	60	60
72	60	60	60	60	60	60	60	60	60	60	60	60	60
74	60	60	60	60	60	60	60	60	60	60	60	60	60
76	60	60	60	60	60	60	60	60	60	60	60	60	60
78	60	60	60	60	60	60	60	60	60	60	60	60	60
80	60	60	60	60	60	60	60	60	60	60	60	60	60
82	60	60	60	60	60	60	60	60	60	60	60	60	55
84	60	60	60	60	60	60	60	60	60	60	55	55	50
86	60	60	60	60	60	60	60	60	60	60	55	50	45
88	60	60	60	60	60	60	60	60	60	60	50	45	45
90	60	60	60	60	60	60	60	60	60	60	60	45	40
92	60	60	60	60	60	60	60	55	55	55	55	40	40
94	60	60	60	60	60	60	55	50	50	50	50	35	35
96	60	60	60	60	60	55	50	50	45	45	45	45	35
102	60	60	60	50	45	45	40	40	35	35	35	35	35
104	60	60	55	50	45	40	40	35	35	35	30	30	30
106	60	60	50	45	40	40	35	35	30	30	30	30	30
108	60	55	50	45	40	35	35	30	30	30	30	25	25
110	60	55	45	40	35	35	30	30	30	25	25	25	25
112	60	50	45	40	35	30	30	25	25	25	25	25	25
114	55	45	40	35	30	30	25	25	25	25	20	20	20
116	55	45	40	35	30	30	25	25	25	20	20	20	20
118	50	40	35	30	30	25	25	25	20	20	20	20	20
120	50	40	35	30	25	25	25	20	20	20	20	20	15
124	45	35	30	25	25	20	20	20	20	15	15	15	15

Innergy Mull/Structural Mulls



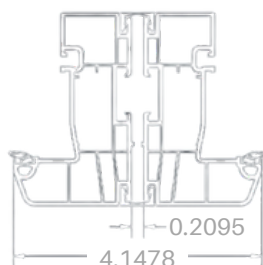


NOTE:

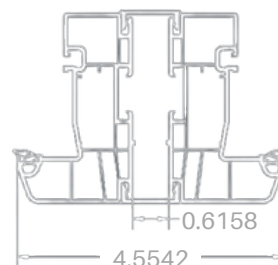
- Each mull type has two tables. One table demonstrates L/175 (CW) peak deflection rating. The other table employs a European load deflection standard of L/150 peak deflection
- This is for reference on mulling limitations ONLY. Please also consider min/max, weight, etc.
- Your assembly will take the rating of whichever is less, the lowest performing window or the mullion
- Minimum DP required for product certification is DP15. Cells with values <15 are greyed out. Alpen will not manufacture

$$\text{Load Width (W)} = (1/2 * \text{Unit 1 Width}) + (1/2 * \text{Unit 2 Width})$$

Tight Mull



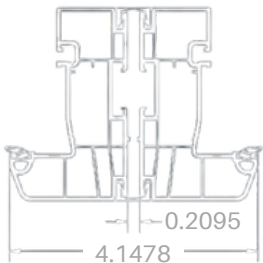
Innergy Mull/Structural Mulls



European load deflection standard

TIGHT MULL (L/150)													
LOAD WIDTH (W)													
L (IN)	30	36	42	48	54	60	66	72	78	84	90	96	102
60	25	20	20	15	15	15	10	10	5	5	5	5	5
62	20	20	15	15	15	15	10	5	5	5	5	5	5
64	20	15	15	15	10	10	5	5	5	5	5	5	5
66	15	15	10	10	10	10	10	5	5	5	5	5	5
68	15	15	10	10	10	10	10	5	5	5	5	5	5
70	15	10	10	10	10	10	5	5	5	5	5	NA	NA
72	10	10	10	10	5	5	5	5	5	NA	NA	NA	NA
74	10	10	10	5	5	5	5	5	5	NA	NA	NA	NA
76	10	10	5	5	5	5	5	5	5	NA	NA	NA	NA
78	10	5	5	5	5	5	5	5	5	NA	NA	NA	NA
80	10	5	5	5	5	5	5	5	5	NA	NA	NA	NA
82	5	5	5	5	5	5	5	5	5	NA	NA	NA	NA
84	5	5	5	5	5	5	5	NA	NA	NA	NA	NA	NA
86	5	5	5	5	5	NA	NA	NA	NA	NA	NA	NA	NA
88	5	5	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
90	5	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
92	5	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
94	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
96	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
108	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
112	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
116	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
118	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
124	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

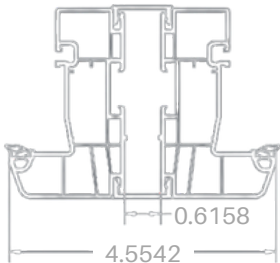
Tight Mull



European load deflection standard

INNERGY MULL (L/150)													
LOAD WIDTH (W)													
L (IN)	30	36	42	48	54	60	66	72	78	84	90	96	102
60	60	60	60	60	60	60	60	60	55	50	50	45	45
62	60	60	60	60	60	60	60	55	50	45	45	40	40
64	60	60	60	60	60	60	55	50	45	45	40	35	35
66	60	60	60	60	60	60	60	45	40	40	35	35	30
68	60	60	60	60	60	60	60	40	40	35	35	30	30
70	60	60	60	60	60	60	60	40	35	30	30	30	25
72	60	60	60	60	55	55	50	50	30	30	25	25	25
74	60	60	60	55	50	50	45	45	30	25	25	25	20
76	60	60	55	50	45	45	40	40	25	25	25	20	20
78	60	55	50	45	40	40	40	35	35	25	20	20	20
80	60	50	45	40	40	35	35	35	35	20	20	20	15
82	55	50	40	40	35	35	30	30	30	20	20	15	15
84	55	45	40	35	30	30	30	25	25	25	20	15	15
86	50	40	35	30	30	25	25	25	25	25	20	15	15
88	45	40	35	30	25	25	25	25	20	20	20	15	10
90	40	35	30	25	25	25	20	20	20	20	20	10	10
92	40	35	30	25	25	20	20	20	20	20	20	10	10
94	35	30	25	25	20	20	20	15	15	15	15	10	10
96	35	30	25	20	20	20	15	15	15	15	15	15	10
102	30	25	20	20	15	15	15	15	10	10	10	10	10
104	25	20	20	15	15	15	10	10	10	10	10	10	10
106	25	20	15	15	15	10	10	10	10	10	10	10	10
108	25	20	15	15	15	10	10	10	10	10	10	10	10
110	20	20	15	15	10	10	10	10	10	10	10	10	10
112	20	15	15	10	10	10	10	10	10	10	5	5	5
114	20	15	15	10	10	10	10	10	5	5	5	5	5
116	20	15	10	10	10	10	10	5	5	5	5	5	5
118	15	15	10	10	10	10	5	5	5	5	5	5	5
120	15	15	10	10	10	5	5	5	5	5	5	5	5
124	15	10	10	10	5	5	5	5	5	5	5	5	5

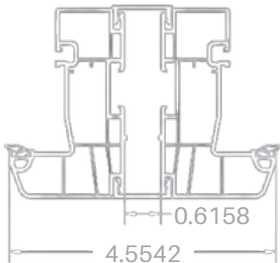
Innergy Mull/Structural Mulls



European load deflection standard

3/16 STRUCTURAL MULL (L/150)													
LOAD WIDTH (W)													
L (IN)	30	36	42	48	54	60	66	72	78	84	90	96	102
60	60	60	60	60	60	60	60	60	60	60	60	60	60
62	60	60	60	60	60	60	60	60	60	60	60	55	55
64	60	60	60	60	60	60	60	60	60	60	55	50	50
66	60	60	60	60	60	60	60	60	60	55	50	45	45
68	60	60	60	60	60	60	60	60	55	50	45	45	40
70	60	60	60	60	60	60	60	55	50	45	40	40	35
72	60	60	60	60	60	60	60	60	45	40	40	35	35
74	60	60	60	60	60	60	60	60	40	35	35	30	30
76	60	60	60	60	60	60	60	55	35	35	30	30	30
78	60	60	60	60	60	55	55	50	50	30	30	25	25
80	60	60	60	55	55	50	50	45	45	30	25	25	25
82	60	60	60	55	50	45	45	40	40	25	25	25	20
84	60	60	55	50	45	40	40	40	40	35	25	20	20
86	60	55	50	45	40	40	35	35	35	35	20	20	20
88	60	55	45	40	40	35	35	30	30	30	20	20	15
90	60	50	45	40	35	30	30	30	30	30	30	20	15
92	55	45	40	35	30	30	30	25	25	25	25	20	15
94	50	45	35	35	30	30	25	25	25	25	25	15	15
96	45	40	35	30	30	25	25	25	20	20	20	15	15
102	40	30	30	25	20	20	20	20	15	15	15	15	15
104	35	30	25	25	20	20	20	15	15	15	15	15	15
106	35	30	25	20	20	20	15	15	15	15	15	15	15
108	30	25	25	20	20	15	15	15	15	15	15	10	10
110	30	25	20	20	15	15	15	15	15	10	10	10	10
112	30	25	20	20	15	15	15	10	10	10	10	10	10
114	25	20	20	15	15	15	10	10	10	10	10	10	10
116	25	20	20	15	15	15	10	10	10	10	10	10	10
118	25	20	15	15	15	10	10	10	10	10	10	10	10
120	25	20	15	15	10	10	10	10	10	10	10	10	5
124	20	15	15	10	10	10	10	10	10	5	5	5	5

Innergy Mull/Structural Mulls



European load deflection standard

½ STRUCTURAL MULL (L/150)													
LOAD WIDTH (W)													
L (IN)	30	36	42	48	54	60	66	72	78	84	90	96	102
60	60	60	60	60	60	60	60	60	60	60	60	60	60
62	60	60	60	60	60	60	60	60	60	60	60	60	60
64	60	60	60	60	60	60	60	60	60	60	60	60	60
66	60	60	60	60	60	60	60	60	60	60	60	60	60
68	60	60	60	60	60	60	60	60	60	60	60	60	60
70	60	60	60	60	60	60	60	60	60	60	60	60	60
72	60	60	60	60	60	60	60	60	60	60	60	60	60
74	60	60	60	60	60	60	60	60	60	60	60	60	60
76	60	60	60	60	60	60	60	60	60	60	60	60	60
78	60	60	60	60	60	60	60	60	60	60	60	60	60
80	60	60	60	60	60	60	60	60	60	60	60	60	60
82	60	60	60	60	60	60	60	60	60	60	60	60	55
84	60	60	60	60	60	60	60	60	60	60	55	55	50
86	60	60	60	60	60	60	60	60	60	60	55	50	45
88	60	60	60	60	60	60	60	60	60	60	50	45	45
90	60	60	60	60	60	60	60	60	60	60	60	45	40
92	60	60	60	60	60	60	60	60	60	60	60	40	40
94	60	60	60	60	60	60	60	60	60	60	55	35	35
96	60	60	60	60	60	60	60	55	55	55	55	50	35
102	60	60	60	60	55	50	50	45	45	40	40	40	40
104	60	60	60	60	50	50	45	40	40	40	40	40	35
106	60	60	60	55	50	45	40	40	40	35	35	35	35
108	60	60	55	50	45	40	40	35	35	35	35	30	30
110	60	60	55	50	45	40	35	35	35	30	30	30	30
112	60	60	50	45	40	35	35	30	30	30	30	30	25
114	60	55	50	40	40	35	30	30	30	30	25	25	25
116	60	55	45	40	35	35	30	30	25	25	25	25	25
118	60	50	45	40	35	30	30	25	25	25	25	25	20
120	55	45	40	35	30	30	25	25	25	25	20	20	20
124	50	40	35	30	30	25	25	20	20	20	20	20	20

Innergy Mull/Structural Mulls

