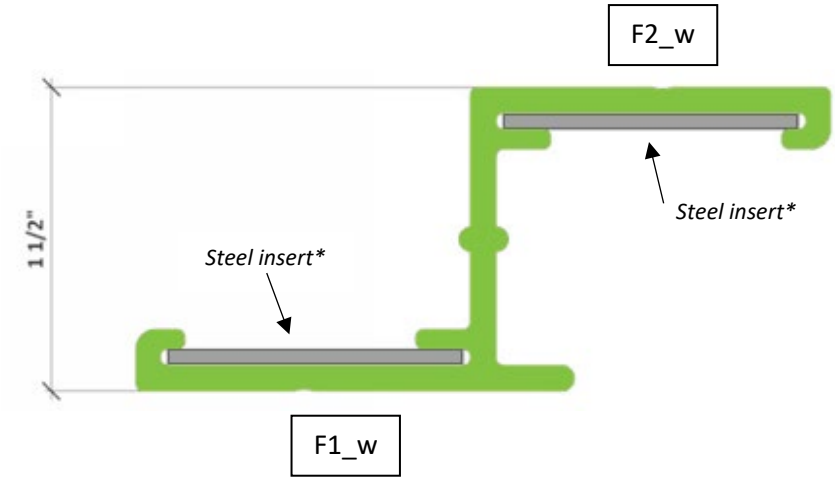
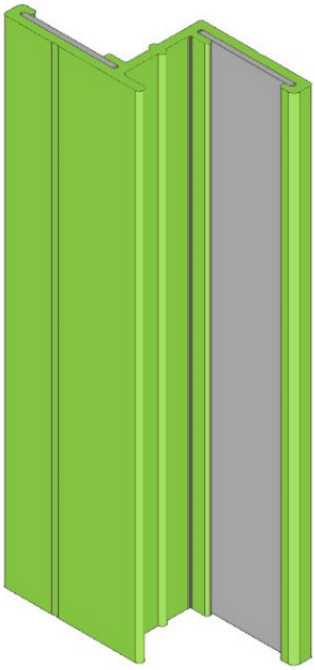
GreenGirt®
COMPOSITE METAL HYBRID

Engineering Data Sheet

GreenGirt® CMH™ 1.5”



Section View



Axonometric View

Section Properties of GreenGirt® CMH™ 1.5”*	
Profile Depth	1.50”
Area	0.68 in^2
Wall Flange Width (F1_w)	1.785”
Outer Flange Width (F2_w)	1.485”
Embedded Spline Width	0.86”
Moments of Inertia	Ix = 0.25 in^4 ; Iy = 0.35841 in^4

Notes: Yield stress: 40,000 psi

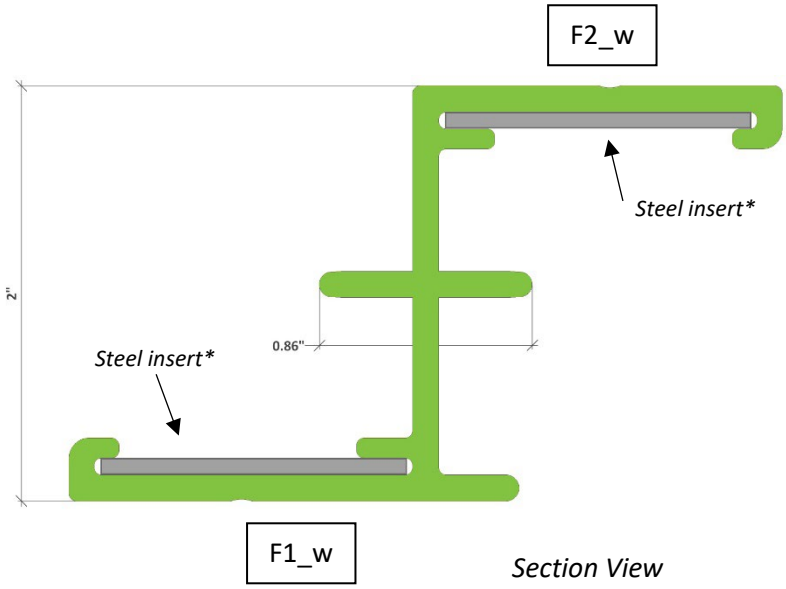
Modulus of Elasticity: Lengthwise 30,000,000 psi

***16-gauge galvanized steel inserts are not included in the above section properties**

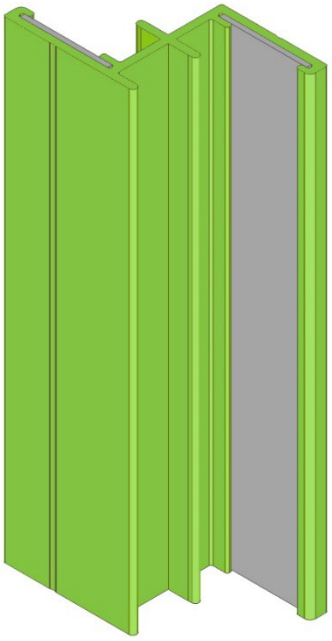
GreenGirt®
COMPOSITE METAL HYBRID

Engineering Data Sheet

GreenGirt® CMH™ 2”



Section View



Axonometric View

Section Properties of GreenGirt® CMH™ 2”*	
Profile Depth	2.00”
Area	0.79311 in^2
Wall Flange Width (F1_w)	1.785”
Outer Flange Width (F2_w)	1.485”
Embedded Spline Width	0.86”
Moments of Inertia	Ix = 0.48173 in^4 ; Iy = 0.35836 in^4 ; Ixy = 0.31200 in^4
Radii of Gyration	rx = 0.77935” ; ry = 0.67219”
Centroid Location Bounding Box	-X = -1.43934” ; +X = 1.42566” ; -Y = -0.95857” ; +Y = 1.04143”

Notes: Yield stress: 40,000 psi

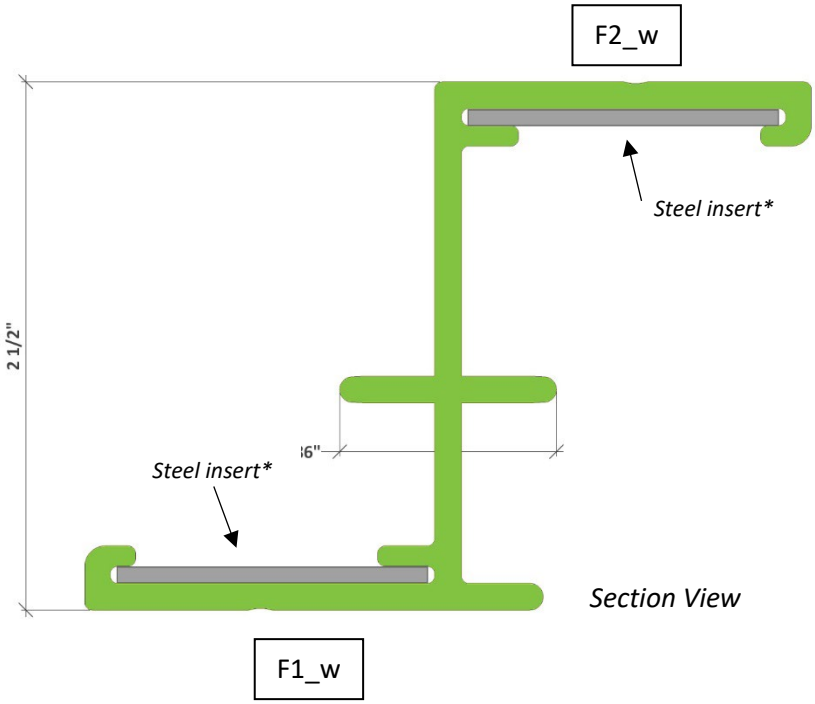
Modulus of Elasticity: Lengthwise 30,000,000 psi

***16-gauge galvanized steel inserts are not included in the above section properties**

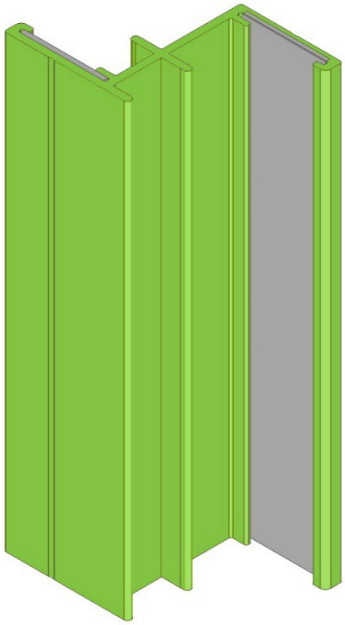
GreenGirt®
COMPOSITE METAL HYBRID

Engineering Data Sheet

GreenGirt® CMH™ 2.5”



Section View



Axonometric View

Section Properties of GreenGirt® CMH™ 2.5”*	
Profile Depth	2.50”
Area	0.84561 in^2
Wall Flange Width (F1_w)	1.785”
Outer Flange Width (F2_w)	1.485”
Embedded Spline Width	0.86”
Moments of Inertia	Ix = 0.80735 in^4 ; Iy = 0.35841 in^4 ; Ixy = 0.39857 in^4
Radii of Gyration	rx = 0.97712” ; ry = 0.65104”
Centroid Location Bounding Box	-X = -1.43891” ; +X = 1.42609” ; -Y = -1.20088” ; +Y = 1.29912”

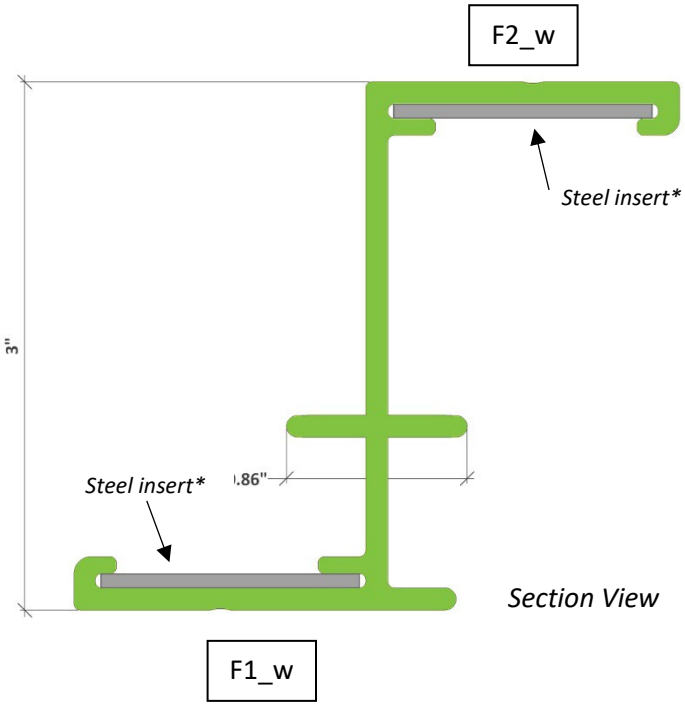
Notes: Yield stress: 40,000 psi

Modulus of Elasticity: Lengthwise 30,000,000 psi

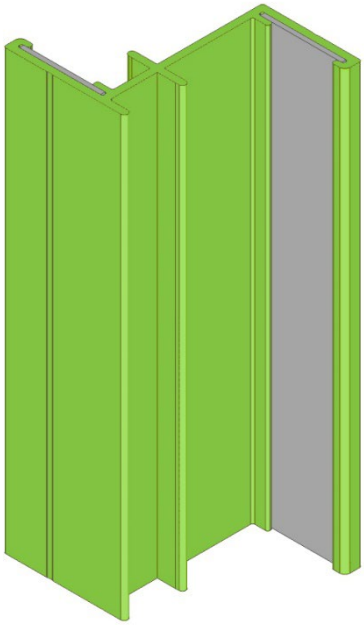
***16-gauge galvanized steel inserts are not included in the above section properties**

Engineering Data Sheet

GreenGirt® CMH™ 3”



Section View



Axonometric View

Section Properties of GreenGirt® CMH™ 3”*	
Profile Depth	3.00”
Area	0.89811 in^2
Wall Flange Width (F1_w)	1.785”
Outer Flange Width (F2_w)	1.485”
Embedded Spline Width	0.86”
Moments of Inertia	Ix = 1.22901 in^4 ; Iy = 0.35846 in^4 ; Ixy = 0.48514 in^4
Radii of Gyration	rx = 1.1698” ; ry = 0.63176”
Centroid Location Bounding Box	-X = -1.43853” ; +X = 1.42647” ; -Y = -1.44409” ; +Y = 1.55591”

Notes: Yield stress: 40,000 psi

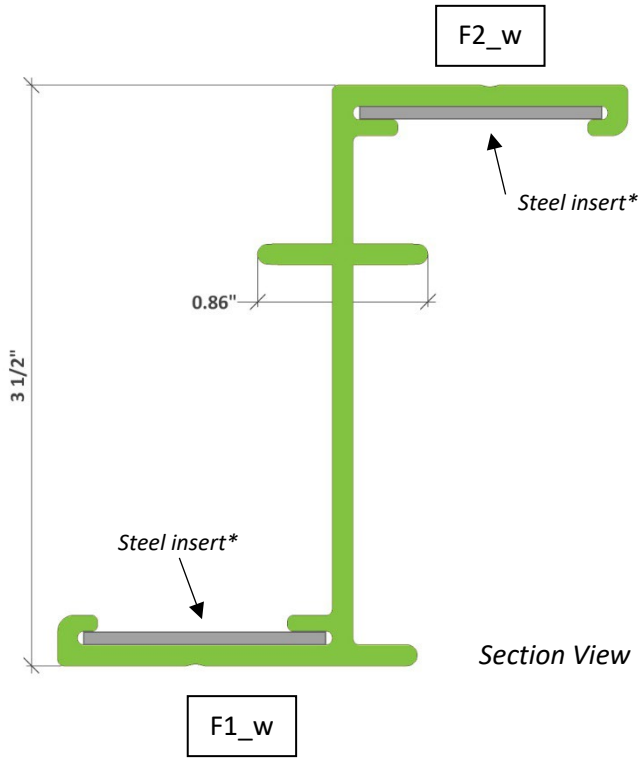
Modulus of Elasticity: Lengthwise 30,000,000 psi

***16-gauge galvanized steel inserts are not included in the above section properties**

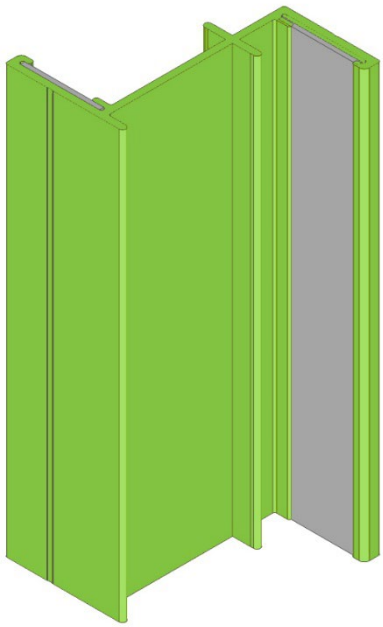
GreenGirt®
COMPOSITE METAL HYBRID

Engineering Data Sheet

GreenGirt® CMH™ 3.5”



Section View



Axonometric View

Section Properties of GreenGirt® CMH™ 3.5”*	
Profile Depth	3.50”
Area	0.95061 in^2
Wall Flange Width (F1_w)	1.785”
Outer Flange Width (F2_w)	1.485”
Embedded Spline Width	0.86”
Moments of Inertia	Ix = 1.75331 in^4 ; Iy = 0.35851 in^4 ; Ixy = 0.57171 in^4
Radii of Gyration	rx = 1.35809” ; ry = 0.61411”
Centroid Location Bounding Box	-X = -1.43853” ; +X = 1.42647” ; -Y = -1.69409” ; +Y = 1.80591”

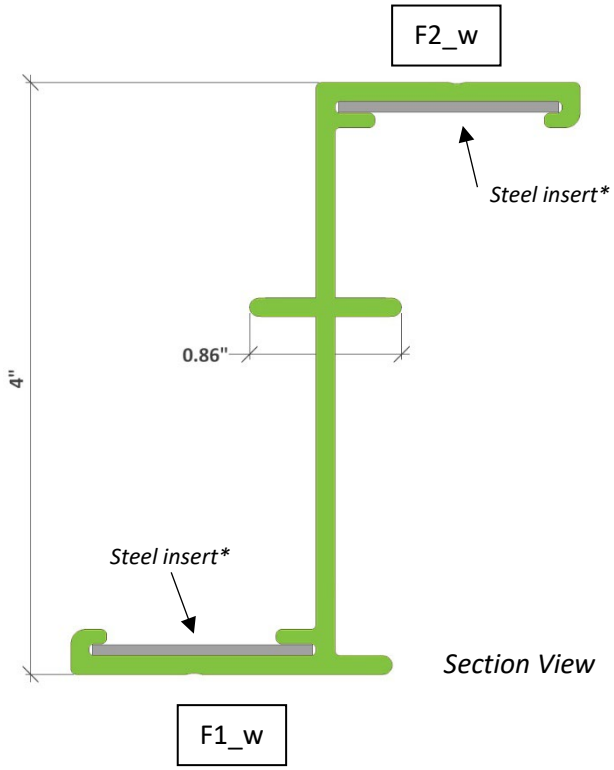
Notes: Yield stress: 40,000 psi

Modulus of Elasticity: Lengthwise 30,000,000 psi

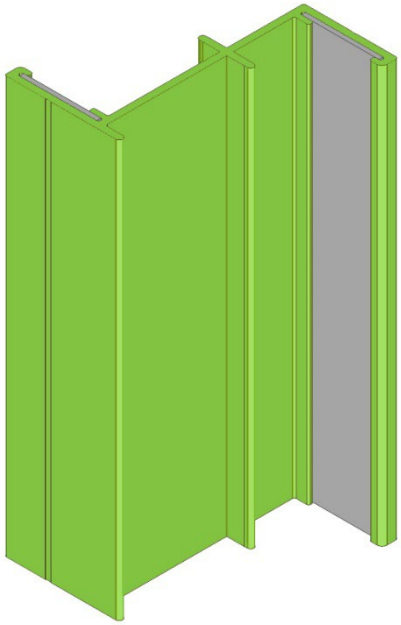
***16-gauge galvanized steel inserts are not included in the above section properties**

Engineering Data Sheet

GreenGirt® CMH™ 4”



Section View



Axonometric View

Section Properties of GreenGirt® CMH™ 4”*	
Profile Depth	4.00”
Area	1.00311 in^2
Wall Flange Width (F1_w)	1.785”
Outer Flange Width (F2_w)	1.485”
Embedded Spline Width	0.86”
Moments of Inertia	Ix = 2.38673 in^4 ; Iy = 0.35856 in^4 ; Ixy = 0.65827 in^4
Radii of Gyration	rx = 1.54251” ; ry = 0.59787”
Centroid Location Bounding Box	-X = -1.4379” ; +X = 1.4271” ; -Y = -1.93263” ; +Y = 2.06737”

Notes: Yield stress: 40,000 psi

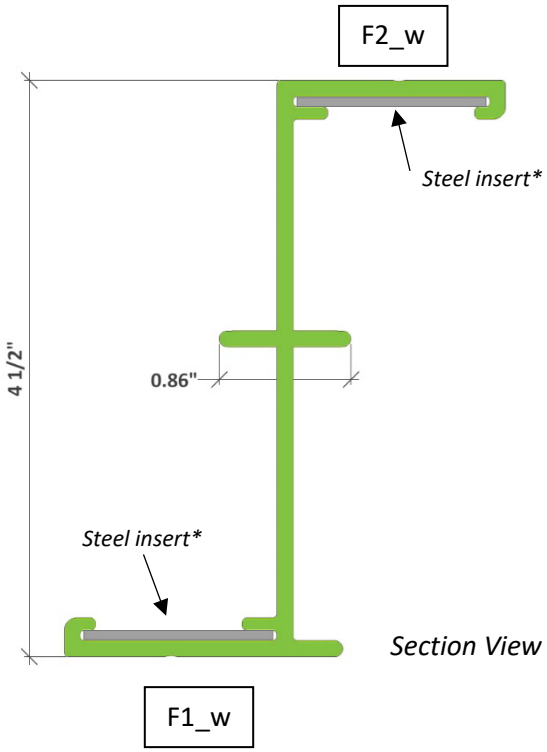
Modulus of Elasticity: Lengthwise 30,000,000 psi

***16-gauge galvanized steel inserts are not included in the above section properties**

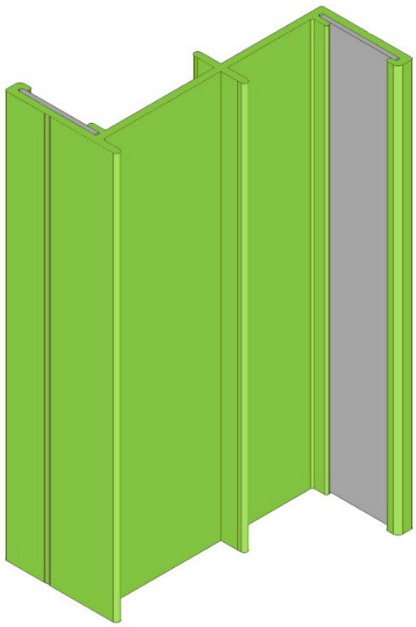
GreenGirt®
COMPOSITE METAL HYBRID

Engineering Data Sheet

GreenGirt® CMH™ 4.5”



Section View



Axonometric View

Section Properties of GreenGirt® CMH™ 4.5”*	
Profile Depth	4.50”
Area	1.060 in^2
Wall Flange Width (F1_w)	1.785”
Outer Flange Width (F2_w)	1.485”
Embedded Spline Width	0.86”
Moments of Inertia	lx = 3.165 in^4 ; ly = 0.369 in^4 ; lxy = 0.760 in^4
Radii of Gyration	rx = 1.72796” ; ry = 0.59001”

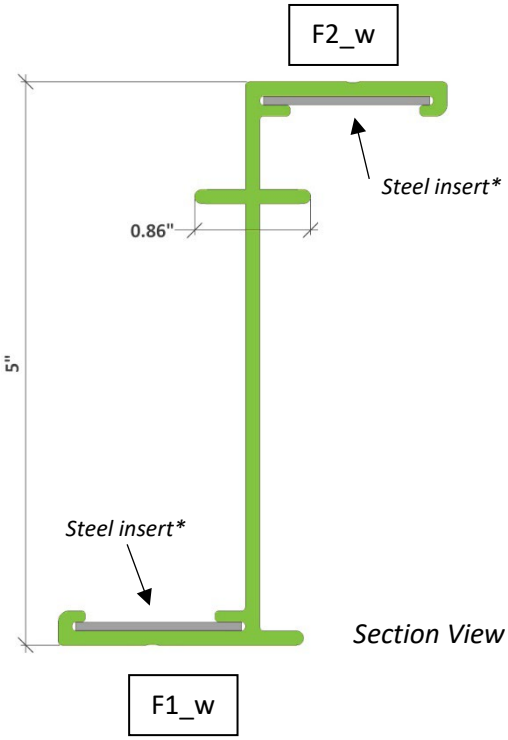
Notes: Yield stress: 40,000 psi

Modulus of Elasticity: Lengthwise 30,000,000 psi

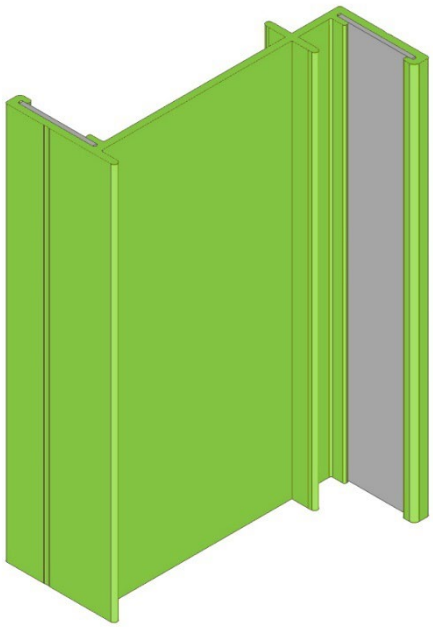
***16-gauge galvanized steel inserts are not included in the above section properties**

Engineering Data Sheet

GreenGirt® CMH™ 5”



Section View



Axonometric View

Section Properties of GreenGirt® CMH™ 5”*	
Profile Depth	5.00”
Area	1.11 in^2
Wall Flange Width (F1_w)	1.785”
Outer Flange Width (F2_w)	1.485”
Embedded Spline Width	0.86”
Moments of Inertia	Ix = 4.21 in^4 ; Iy = 0.37 in^4 ; Ixy = 0.85 in^4
Radii of Gyration	rx = 1.94751” ; ry = 0.577350”

Notes: Yield stress: 40,000 psi

Modulus of Elasticity: Lengthwise 30,000,000 psi

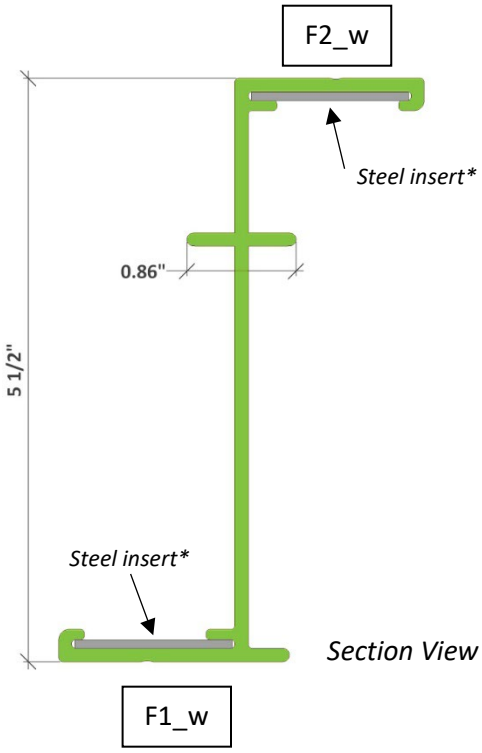
***16-gauge galvanized steel inserts are not included in the above section properties**

ADVANCED ARCHITECTURAL PRODUCTS

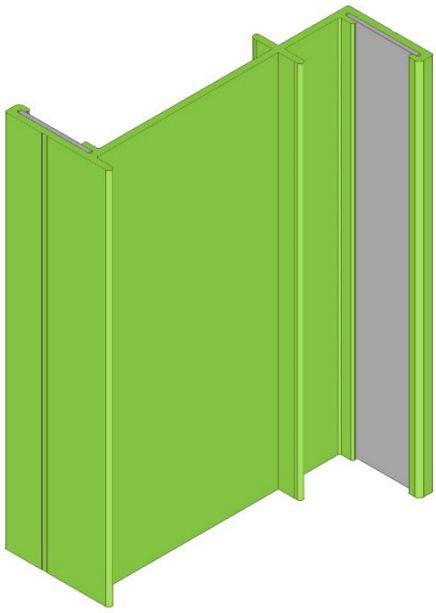
GreenGirt.com
959 Industrial Drive, Allegan, MI 49010 • (269) 355-1818
Patents: GreenGirt.com/Patents

Engineering Data Sheet

GreenGirt® CMH™ 5.5”



Section View



Axonometric View

Section Properties of GreenGirt® CMH™ 5.5”*	
Profile Depth	5.50”
Area	1.11 in^2
Wall Flange Width (F1_w)	1.785”
Outer Flange Width (F2_w)	1.485”
Embedded Spline Width	0.86”
Moments of Inertia	lx = 4.74108 in^4 ; ly = 0.32390 in^4 ; lxy = 0.81122 in^4
Radii of Gyration	rx = 2.07407” ; ry = 0.54211”

Notes: Yield stress: 40,000 psi

Modulus of Elasticity: Lengthwise 30,000,000 psi

***16-gauge galvanized steel inserts are not included in the above section properties**

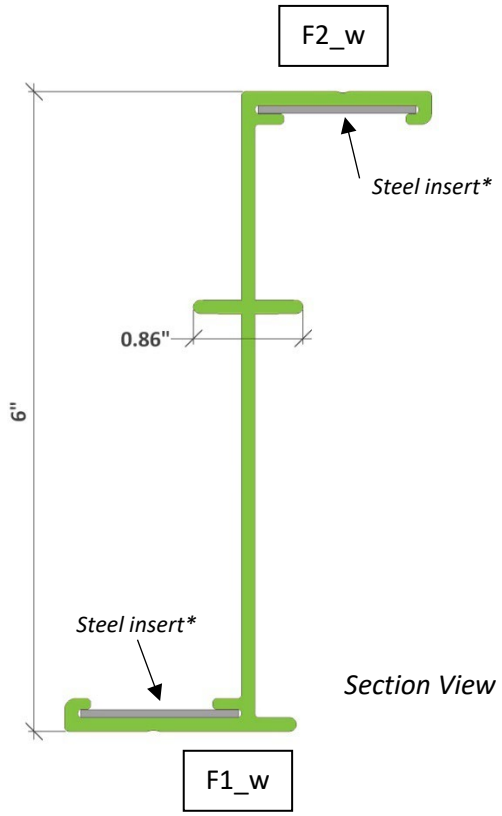
ADVANCED ARCHITECTURAL PRODUCTS

GreenGirt.com
959 Industrial Drive, Allegan, MI 49010 • (269) 355-1818
Patents: GreenGirt.com/Patents

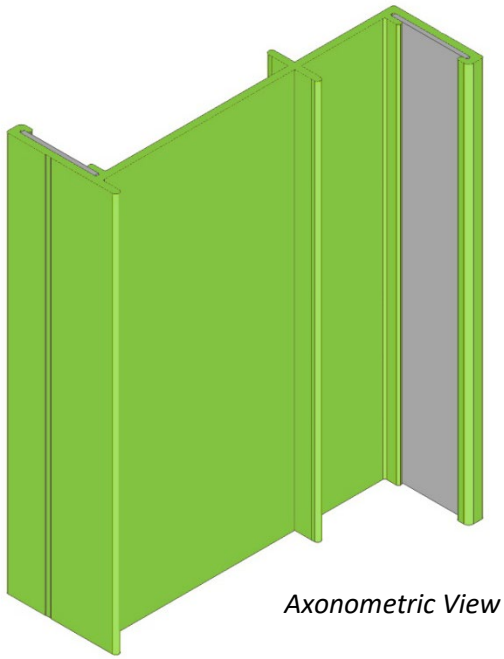
GreenGirt®
COMPOSITE METAL HYBRID

Engineering Data Sheet

GreenGirt® CMH™ 6”



Section View



Axonometric View

Section Properties of GreenGirt® CMH™ 6”*	
Profile Depth	6.00”
Area	1.1546 in^2
Wall Flange Width (F1_w)	1.785”
Outer Flange Width (F2_w)	1.485”
Embedded Spline Width	0.86”
Moments of Inertia	lx = 5.74885 in^4 ; ly = 0.32398 in^4 ; lxy = 0.88699 in^4
Radii of Gyration	rx = 2.23136” ; ry = 0.52971”

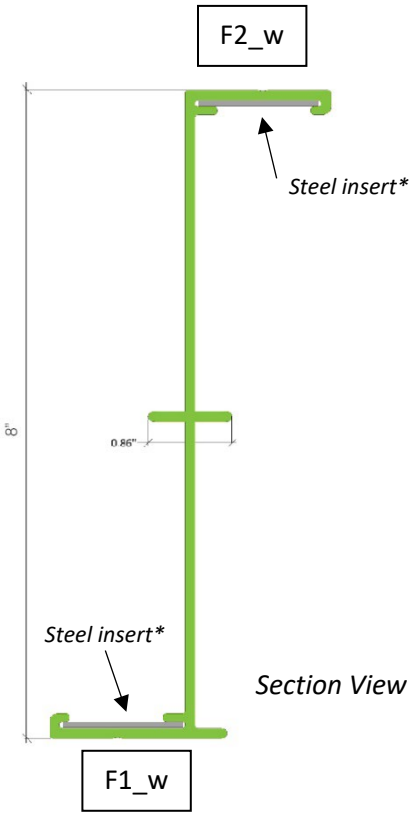
Notes: Yield stress: 40,000 psi

Modulus of Elasticity: Lengthwise 30,000,000 psi

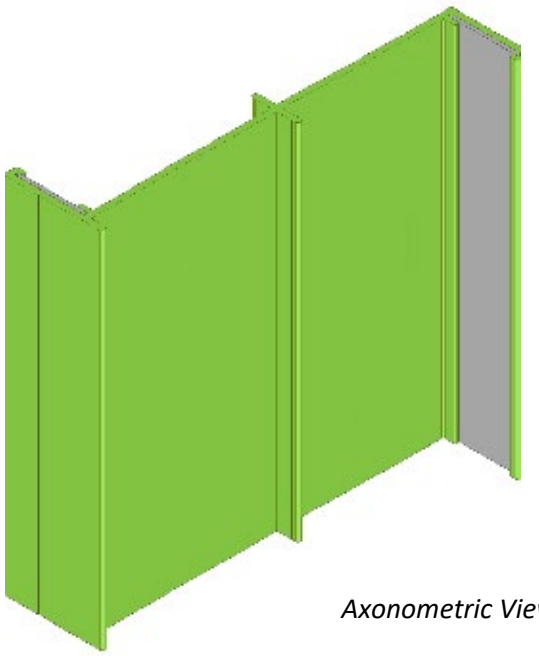
***16-gauge galvanized steel inserts are not included in the above section properties**

Engineering Data Sheet

GreenGirt® CMH™ 8”



Section View



Axonometric View

Section Properties of GreenGirt® CMH™ 8”*	
Profile Depth	8.00”
Area	1.3646 in^2
Wall Flange Width (F1_w)	1.785”
Outer Flange Width (F2_w)	1.485”
Embedded Spline Width	0.86”
Moments of Inertia	lx = 11.273 in^4 ; ly = 0.3243 in^4
Radii of Gyration	rx = 2.8742” ; ry = 0.4875”

Notes: Yield stress: 40,000 psi

Modulus of Elasticity: Lengthwise 30,000,000 psi

***16-gauge galvanized steel inserts are not included in the above section properties**

ADVANCED ARCHITECTURAL PRODUCTS

GreenGirt.com
959 Industrial Drive, Allegan, MI 49010 • (269) 355-1818
Patents: GreenGirt.com/Patents