

Reducing Projects CO2 Emissions With Cubis Systems Sustainable Range of Network Access Chambers, Cable Protection Systems and Accessories



Cubis Systems is the market leader in the manufacture of innovative, sustainable composite access chambers and cable protection systems for global infrastructure markets. With sustainability in mind, our products have been developed to support the overall reduction of Global Warming Potential (GWP) in developing market leading solutions that function in the most effective and efficient way possible

CO2 Reduction Per Chamber

Chamber Size (mm)	Percentage Reduction	Total CO2 Reduction Per Chamber (kg)*
2000 x 2000 x 2400	80.7%	7157
1500 x 1500 x 2400	80.7%	5312
1200 x 1200 x 2400	86.2%	4731
MCX 1310 x 850 x 900	71.3%	693
1200 x 600 x 900	61.5%	455
900 x 900 x 900	56.6%	404
915 x 445 x 750	51.0%	139
600 x 600 750	47.9%	179

*The following information has come from IStructE backed by third party information. For more information please contact Cubis Systems for more details at www.cubis-systems.com



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STAKKAbox™ ULTIMA Connect
Chamber System
2000 x 2000 x 2400 (mm)



ULTIMA Connect Chamber	
Manufacturing	
Total Weight (kg)	736
GWP (kg of CO2) Per kg^	2.21
Total CO2 Produced (kg)	1627
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	87
Total GWP	
ULTIMA GWP (kg)	1713.4
Total CO2 Reduction (%)	80.7%

Reinforced Concrete Chamber	
Manufacturing	
Total Weight (kg)	14554
GWP (kg of CO2) Per kg^	0.491
Total CO2 Produced (kg)	7153
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	1717
Total GWP	
Concrete GWP (kg)	8870.3

STAKKAbox™ ULTIMA Connect
Chamber System
1500x 1500 x 2400 (mm)



ULTIMA Connect Chamber	
Manufacturing	
Total Weight (kg)	544
GWP (kg of CO2) Per kg^	2.21
Total CO2 Produced (kg)	1202
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	64
Total GWP	
ULTIMA GWP (kg)	1266.4
Total CO2 Reduction (%)	80.7%

Reinforced Concrete Chamber	
Manufacturing	
Total Weight (kg)	10794
GWP (kg of CO2) Per kg^	0.491
Total CO2 Produced (kg)	5305
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	1274
Total GWP	
Concrete GWP (kg)	6578.5

* Values for Precast concrete and Reinforcing Steel taken from the IStructE Guide “How to Calculate Embodied Carbon” <https://www.istructe.org/IStructE/media/Public/Resources/istructe-how-to-calculate-embodied-carbon.pdf>

^ Values for the Cubis Ultima/Ultima Connect sections taken from “Cubis Environmental Product Declartion” (EPD) <https://www.environdec.com/library/epd4748>

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STAKKAbox™ ULTIMA Connect
Chamber System
1200 x 1200 x 2400 (mm)



ULTIMA Connect Chamber	
Manufacturing	
Total Weight (kg)	326
GWP (kg of CO2) Per kg^	2.21
Total CO2 Produced (kg)	720
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	38
Total GWP	
ULTIMA GWP (kg)	758.9
Total CO2 Reduction (%)	86.2%

Reinforced Concrete Chamber	
Manufacturing	
Total Weight (kg)	9008
GWP (kg of CO2) Per kg^	0.491
Total CO2 Produced (kg)	4427
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	1063
Total GWP	
Concrete GWP (kg)	5490.4

STAKKAbox™ ULTIMA Connect
Chamber System
MCX 1310x 850 x 900 (mm)



ULTIMA Connect Chamber	
Manufacturing	
Total Weight (kg)	120
GWP (kg of CO2) Per kg^	2.21
Total CO2 Produced (kg)	265
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	14
Total GWP	
ULTIMA GWP (kg)	279.4
Total CO2 Reduction (%)	71.3%

Reinforced Concrete Chamber	
Manufacturing	
Total Weight (kg)	2100
GWP (kg of CO2) Per kg^	0.345
Total CO2 Produced (kg)	724
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	248
Total GWP	
Concrete GWP (kg)	971.9

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STAKKAbox™ ULTIMA Connect
Chamber System
1200 x 600 x 900 (mm)



ULTIMA Connect Chamber	
Manufacturing	
Total Weight (kg)	122
GWP (kg of CO2) Per kg^	2.21
Total CO2 Produced (kg)	271
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	14
Total GWP	
ULTIMA GWP (kg)	284.9
Total CO2 Reduction (%)	61.5%

Reinforced Concrete Chamber	
Manufacturing	
Total Weight (kg)	1440
GWP (kg of CO2) Per kg^	0.396
Total CO2 Produced (kg)	570
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	170
Total GWP	
Concrete GWP (kg)	739.7

STAKKAbox™ ULTIMA Connect
Chamber System
900x 900 x 900 (mm)



ULTIMA Connect Chamber	
Manufacturing	
Total Weight (kg)	133
GWP (kg of CO2) Per kg^	2.21
Total CO2 Produced (kg)	294
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	16
Total GWP	
ULTIMA GWP (kg)	310.1
Total CO2 Reduction (%)	56.6%

Reinforced Concrete Chamber	
Manufacturing	
Total Weight (kg)	1390
GWP (kg of CO2) Per kg^	0.396
Total CO2 Produced (kg)	550
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	164
Total GWP	
Concrete GWP (kg)	714.2

* Values for Precast concrete and Reinforcing Steel taken from the IStructE Guide “How to Calculate Embodied Carbon” <https://www.istructe.org/IStructE/media/Public/Resources/istructe-how-to-calculate-embodied-carbon.pdf>

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STAKKAbox™ ULTIMA Connect
Chamber System
915 x 445 x 750 (mm)



ULTIMA Connect Chamber	
Manufacturing	
Total Weight (kg)	58
GWP (kg of CO2) Per kg^	2.21
Total CO2 Produced (kg)	127
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	7
Total GWP	
ULTIMA GWP (kg)	133.9
Total CO2 Reduction (%)	51.0%

Reinforced Concrete Chamber	
Manufacturing	
Total Weight (kg)	590
GWP (kg of CO2) Per kg^	0.345
Total CO2 Produced (kg)	203
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	70
Total GWP	
Concrete GWP (kg)	273.0

STAKKAbox™ ULTIMA Connect
Chamber System
600 x 600 x 750 (mm)



ULTIMA Connect Chamber	
Manufacturing	
Total Weight (kg)	84
GWP (kg of CO2) Per kg^	2.21
Total CO2 Produced (kg)	185
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	10
Total GWP	
ULTIMA GWP (kg)	194.4
Total CO2 Reduction (%)	47.9%

Reinforced Concrete Chamber	
Manufacturing	
Total Weight (kg)	806
GWP (kg of CO2) Per kg^	0.345
Total CO2 Produced (kg)	278
Transport to Site	
GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	95
Total GWP	
Concrete GWP (kg)	373.0

* Values for Precast concrete and Reinforcing Steel taken from the IStructE Guide “How to Calculate Embodied Carbon” <https://www.istructe.org/IStructE/media/Public/Resources/istructe-how-to-calculate-embodied-carbon.pdf>

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STAKKAbox™ ULTIMA Connect Chamber System

2000 x 2000 x 2400 (mm)



ULTIMA Connect Chamber



Manufacturing

Total Weight (kg)	736
GWP (kg of CO2) Per kg^	2.21

Total CO2 Produced (kg)	1627
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Transport to Site

GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	87

Total GWP

ULTIMA GWP (kg)	1713.4
Total CO2 Reduction (%)	80.7%

Reinforced Concrete Chamber

Manufacturing

Total Weight (kg)	14554
GWP (kg of CO2) Per kg^	0.491

Total CO2 Produced (kg)	7153
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Transport to Site

GWP (kg of CO2) per kg	0.118
Total CO2 Produced (kg)	1717

Total GWP

Concrete GWP (kg)	8870.3
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