



## Crib Gogh Ltd Commercial in Confidence

# Technical Specifications for The Mountain Raptor Modular Combat Rucksack

**Crib Gogh CLQF1115**      Written By S.R. Heaward      Version 1.01      11<sup>th</sup> September 2012

These units are all tested to British Standard Kite marks, EU Kite marks and ISO requirements where available;

**Colour Fastness to Light** (ISO 105 B02-2000/Amendment 2:2000; use Xenon arc lamp)

Grade (B.S.) 6 Above

**Tensile Strength** (ISO 13934-1-1999; Instron CRE – 2” Strip)

Warp (N) 2560

Weft (N) 1731

**Tensile Strength** (ISO 13934-1-1999; Instron CRE – 1” Grab)

Warp (N) 2280

Weft (N) 1515

**Tearing Strength** (ISO 13937-1-2000; Elmendorf)

Warp yarns torn (N) >64

Weft Yarns Torn (N) >64

**Water Resistance** (ISO 811-1981; - Hydrostatic Head; Rate of increase of water pressure: 60 cm/min, temp of distilled water: 20 degree C) SGS Report 937428TX-G

Phosphorus testing was done to comply with **FMVSS 302- Test FEDERAL MOTOR VEHICLE SAFETY STANDARD No. 302** as there are no defined standards for this test or non written for a combat requirement. **Crib Gogh has set this standard as the industry bench mark.**

**Attachment strap** This set to attain BS 5131 Pt 51.11.1981(1992) and exceeded the required set limit attaining 2209.2N for fabric rupture. SGS Report 3359393TX

**All Buckles supplied and fitted:** These were all tested to BS 5131 Pt 51.11.1981(1992) SGS Report 3359394

**Special rot proof yarn test:** ISO 2062-1993

Strength (G)

Average 3411.00

Maximum 3810.0

Minimum 3054.0      CV (%) 6.3      SGS Report 3359397TX

**All Zips supplied and fitted:** Tested to BS 3804-2006 and exceeded minimum requirements. SGS Report 3401078TX

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The Mountain Raptor was developed with a spinal surgeon from the RCP (Royal College of Physicians) and complies with BS 13407-1999. All the rucksacks have a stress tolerance to exceed a 100 kilos payload. It is designed to protect the spine and distribute weight correctly along the back, reducing wear and problems later in life with the lumbar region of the spine. All the bar-tacks machined-in exceed the industry standard and have set new breaking strains, to the point where the rucksacks will not only allow a wounded colleague to be dragged to safety but will in fact tow a transit van. (Torque on a transit van is 3200nm, our breaking strain is 3411nm)




































Available in mission-specific detail for mountain and Cadre troops: it has the same great features as the Constrictor but with added pockets for water purifiers and snow shovel with the sack lid extended to accommodate a 75metre 11mm rope The Mountain Raptor continues the companies profile for end user products that work and deliver.





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The Mountain Raptor technical specifications are as the Constrictor with mission specific requirements added.

-  24 anchor points
-  20 lash points
-  9 compression straps
-  2 Ice Axe Loops
-  2 Pole Loops
-  Bungee loops for a bungee mesh
-  Drainage
-  2 external wand pockets
-  10 crampon loops (daisy chain)
-  Haul loop attachments
-  MOLLE compatible
-  2 Axe/Pole stays
-  Top and side carry handles (will fit ballistic gloves)
-  Camelbak/Source compatible to exceed 3ltr reservoir both L&R access
-  3 way shoulder strap adjustment (aids on the move comfort)
-  Strain reduction/weight distribution poly carbonate inserts machined in the shoulder straps
-  S shaped style shoulder straps for a comfort fit with attachments for the new combat chest rig
-  2 extra lash points on the shoulder straps
-  2 Utility clips on the shoulder straps
-  2 webbed accessory stays on the shoulder straps
-  Anti-snap attachments on all adjustment straps
-  Padded hip belt with bellows pockets
-  Patented padded spinal protection
-  Will take the new soldier platform combat ballistic plates and chest rig
-  Air-vent circulation for cooling and to wick sweat away
-  Will take the new soldier TE cooling system
-  2 external bellows pockets with internal wand pockets
-  Top lid pocket with rain cover
-  Large zipped personal organiser with lash point with a large wand pocket
-  Water purifier compartment (For the longer Mountain operations)
-  Snow shovel pocket
-  Rope compartment (will take a 75metre 11mm black marlin etc)
-  Compatible with our patented inflatable canoe sack
-  All components are IRR compliant
-  1000d/600d Fabric option

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This rucksack can be tailored to suit other needs and environments and we offer other mission specific additions that would enhance the specialised unit whether it was a long range SF team or short insertion and extraction team. For the domestic SWAT teams, these combat sacks will adhere to the requirements of any unit specifics.

The Mountain Raptor has undergone extensive trials and testing, it has the highest levels of comfort and balance of any mountain rucksack in service at this time



The Mountain Raptor along with every other Crib Gogh Rucksack and Haulage solution is tested to STANAG 2895 and is certified by SGS Ltd. We are the only company that that is certified to these standards

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**The mountain accessories are courtesy of DMM Ltd of Wales:**



**UK Company registration Number  
5809453**



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### Testing Standards and Specifications Attained

#1

Material Colour Fastness to light: Woven 1000% Polyester (Black x1 OD Green x1)  
Standard Reference ISO 105 B02-2000/Amendment 2:2000; Uses Xenon arc lamp  
Testing House SGS Hong Kong  
Testing House Reference HZ937428/TX  
Test Date 19<sup>th</sup> April 2011  
Result Grade (B.S.) 6 + Above

#2

Material Tensile Strength: Woven 1000% Polyester (Black x1 OD Green x1)  
Standard Reference ISO 1394-1-1999: Instron CRE-2" Strip  
Testing House SGS Hong Kong  
Testing House Reference HZ937428/TX  
Test Date 19<sup>th</sup> April 2011  
Result Warp (N) 2560, Weft (N) 1731

#3

Material Tensile Strength: Woven 1000% Polyester (Black x1 OD Green x1)  
Standard Reference ISO 1394-1-1999: Instron CRE-1" Grab  
Testing House SGS Hong Kong  
Testing House Reference HZ937428/TX  
Test Date 19<sup>th</sup> April 2011  
Result Warp (N) 2280, Weft (N) 1515

#4

Material Tear Strength: Woven 1000% Polyester (Black x1 OD Green x1)  
Standard Reference ISO 13937-2000;- Elmendorf  
Testing House SGS Hong Kong  
Testing House Reference HZ937428/TX  
Test Date 19<sup>th</sup> April 2011  
Result Warp Yarns (N) >64, Weft Yarns (N) >64



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#5

Material Water Resistance: Woven 1000% Polyester (Black x1 OD Green x1)  
 Standard Reference ISO 811-1981; Hydrostatic Head; Rate of increase water pressure:  
 60cm/min, Temperature of distilled water 20c  
 Testing House SGS Hong Kong  
 Testing House Reference HZ937428/TX  
 Test Date 19<sup>th</sup> April 2011  
 Result  
 Side facing water column

	1#	2#	3#	4#	5#	Average
	>800	>800	>800	>800	>800	>800

#6

Material Flammability (Anti-phosphorus)  
 Standard Reference Flammability (horizontal) per FMVSS 302 Code of federal regulations title 49  
 Transport section 571.302  
 Testing House SGS Hong Kong  
 Testing House Reference HZ937428/TX  
 Test Date 19<sup>th</sup> April 2011  
 Result Submitted specimens meet the specified requirements of FMVSS.302

#7

Material Shoulder strap breaking strain  
 Standard Reference Attachment strength of strap (BS5131, Part 11:1981 (1992))  
 Testing House SGS Hong Kong  
 Testing House Reference 3359393/TX  
 Test Date 19<sup>th</sup> April 2011  
 Result Attachment strength of strap (BS5131, Part 11:1981 (1992))  
 2209.2 Fabric Rupture

#8

Material 3x All Buckles fitted ¾” 1” 1½”  
 Standard Reference Attachment strength of strap: BS5131, Part 11:1981 (1992)  
 Testing House SGS Hong Kong  
 Testing House Reference 3359394/TX  
 Test Date 19<sup>th</sup> April 2011  
 Result

¾”	1217.5 (N)	Buckle Broken (exceeded the standard)
1”	845.3(N)	Buckle Broken (exceeded the standard)
1½”	938.3(N)	Buckle Broken (exceeded the standard)



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#9

Material Module Spun Rot-proof polyester threads (Green) Machine assembly of bag  
Standard Reference Single yarn strength ISO-2062-1993  
Testing House SGS Hong Kong  
Testing House Reference 3359397/TX  
Test Date 19<sup>th</sup> April 2011  
Result Strength G Average=3411.0 Maximum=3810.0 Minimum=3054.0  
CV%=6.3 Pass to BS kite mark standard

#10

Material 2 samples of woven Zipper (black for bag) (A) YKK (B) Millon  
Standard Reference Zipper Strength BS 3084-2006, Performance code C requirement Test #5  
reciprocating test  
Testing House SGS Hong Kong  
Testing House Reference 3356902/TX  
Test Date 19<sup>th</sup> April 2011  
Result Sample (A) exceeds 500 cycles Sample (B) exceeds 500 cycles

#11

Material Complete manufactured rucksack designated as a Constrictor Manufactured by  
Crib Gogh Ltd  
Standard Reference Defined as STANAG 2895  
Testing House SGS Hong Kong  
Testing House Reference 3775773/TX  
Test Date 19<sup>th</sup> April 2011  
Result To Freeze the rucksack at -45 C for 168hours and test all components for  
50cycles of operation efficiency Test Parameter was exceeded





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**Crib Gogh Ltd is a BSI ISO 9001:2008 registered company:**

## Where the Ultimate Comes as Standard



UK Company registration Number  
5809453