HEADQUARTERS PHILIPPINE ARMY OFFICE OF THE ARMY QUARTERMASTER

Fort Andres Bonifacio, Metro Manila

TEST PARAMETERS

BACKPACK, TACTICAL MOLLE, PHILARPAT (Interim)

MAY 0 3 2018

TEST PARAMETERS	QM SPEC NR IE - 22BTM 10 June	Classi	Classification	
	2017 with Amend 1 dtd 20 April 2018	Major	Mino	
Measurements, cm				
Height	49.0 ± 5.0	X		
Width, top part	30.0 ± 5.0	X		
Width, bottom part	40.0 ± 5.0	X		
Thickness, side part (excluding the front pocket)	17.0 ± 3.0		Х	
Thickness, extended part (top portion)	7.0 ± 3.0		X	
Thickness, extended part (bottom portion)	13.0 ± 3.0		X	
Front Pocket (small) (H-measured at the center x W x T)	10.0 ± 1.0 x 22.0 ± 1.0 x 6.0 ± 2.0	X		
Front Pocket (big) (H-measured at the center x W x T)	$35.0 \pm 3.0 \times 34.0 \pm 3.0 \times 9.0 \pm 2.0$	Х		
Side Pocket (small) (H x W x T)	$18.0 \pm 2.0 \times 13.0 \pm 2.0 \times 7.0 \pm 2.0$	X		
Side Pocket (medium) (H x W x T)	$22.0 \pm 2.0 \times 17 \pm 2.0 \times 7.0 \pm 2.0$	Х		
Side Pocket (long) (H x W x T)	44.0 ± 2.0 x 17.0 ± 2.0 x 7.0 ± 2.0	X		
Length of Carrying Strap, cm				
Carrying Strap #1	23.0 ± 3.0		X	
Carrying Strap #2	26.0 ± 2.0		X	
Basic Material	Nylon Canvas	Х		
Color	PHILARPAT	Х		
Coating	Applied with colorless water resistant material on the reverse side	X		
Type of Weave	Plain		X	
Yarn Size, Denier				
Warp	1,350 (minimum)		X	
Filling	1,200 (minimum)		Χ	
Thread Count/2.54 cm				
Warp	34 (minimum)		Χ	



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TEST PARAMETERS	QM SPEC NR IE - 22BTM 10 June 2017 with Amend 1 dtd 20 April 2018	Classification	
		Major	Mino
Filling	27 (minimum)		X
Weight, g/m	400 (maximum)	X	
Thickness, mm	0.60 (minimum)		X
Breaking Strength, kg			
Warp	330 (minimum)	X	
Filling	280 (minimum)	X	
Water Resistance, grams of water	0	X	
absorbed by blotter			
Water Repellency, %	80 (minimum)	X	
Color Quality (based on PHILARPAT, BDU)	2.5 (maximum)		Х
Lining Material	Polyester fabric	X	
Color	Olive Drab (OD)	X	
Type of Weave	Plain		X
Yarn Size, Denier			
Warp	85 (minimum)		X
Filling	80 (minimum)		X
Thread Count/2.54 cm			
Warp	90 (minimum)		X
Filling	65 (minimum)		X
Weight, g/m	70 (maximum)	X	//
Thickness, mm	0.20 (maximum)		X
Breaking Strength, kg	(1111	
Warp	40 (minimum)		X
Filling	35 (minimum)		X
Mesh Material	Polyester	X	
Mesh	It shall be made of two (2) layered	X	
3.000	materials. Top and bottom layers shall		
	be OD knitted breathable.		
N. CULL 0.54			
No. of Holes per 2.54 cm ²	50 (minimum)		X
Thickness	3.0 (maximum		X
Weight, g/m²	250 (maximum)	X	
Bursting Strength , kg/cm²	18 (minimum)	X	
Straps	Polyester webbing	X	
Colors	Olive Drab (OD)	X	
Strap #1			
Width, cm	5.0 ± 0.2	X	
Type of Weave	Plain Double		X
Thickness, mm	1.0 - 1.5		X
Breaking Strength, kg (full width)	1000 (minimum)	X	7.1



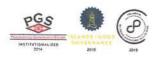
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TEST PARAMETERS	QM SPEC NR IE - 22BTM 10 June 2017 with Amend 1 dtd 20 April 2018	Classificatio	
		Major	Mino
Strap #2			
Width, cm	2.5 ± 0.2	X	
Type of Weave	Plain Double		X
Thickness, mm	1.0 - 1.5		X
Breaking Strength, kg (full width)	700 (minimum)	X	
Strap #3			
Width, cm	2.0 ± 0.2	X	
Type of Weave	Plain Double		X
Thickness, mm	1.0 - 1.5		X
Breaking Strength, kg (full width)	500 (minimum)	X	
Binding Tape	Nylon or Polyester webbing	X	
Color	OD	X	
Width, cm	2.0 ± 0.5	X	
Type of Weave	Plain Double		X
Thickness, mm	0.7 (minimum)		X
Padding	Rubberized Foam	X	
Padding #1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Thickness, mm	10.0 - 11.0	X	
Padding #2			
Thickness, mm	2.5 - 3.5	X	
Elastic Cord	Nylon or Polyester	X	
Color	OD	X	
Diameter, mm	3.0 ± 0.5		X
Breaking Strength, kg	25.0 (minimum)	X	
Plastic Buckles Accessories			
Quick Release Buckle (small)	Hard plastic	X	
No. of pieces	7 pieces	X	
Color	Black or OD	X	
Length, cm	5.4 ± 0.2	X	
Width, cm	2.6 ± 0.2	X	
Thickness, mm	11.3 ± 1.0		X
Breaking Strength, kg	45 (minimum)	Χ	
Quick Release Buckle (medium)	Hard plastic	X	
No. of pieces	2 pieces	X	
Color	Black or OD	X	
Length, cm	6.3 ± 0.2	X	
Width, cm	3.2 ± 0.2	X	
Thickness, mm	12.0 ± 1.0		X
Breaking Strength, kg	45 (minimum)	Χ	



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TEST PARAMETERS	QM SPEC NR IE - 22BTM 10 June 2017 with Amend 1 dtd 20 April 2018	Classification	
		Major	Minor
Quick Release Buckle (Large)			
No. of pieces	1 piece	X	
Color	Black or OD	X	
Length, cm	8.0± 0.2	X	
Width, cm	6.0 ± 0.2	X	
Thickness, mm	15.0 ± 1.0		X
Breaking Strength, kg	100 (minimum)	X	
D-Ring			
No. of pieces	2 pieces	X	
Length, cm	3.4 ± 0.2	X	
Width, cm	2.8 ± 0.2	X	
Thickness, mm	4.0 ± 0.2		X
Tri-Bar Adjustable Buckle (small)			- /
No. of pieces	3 pieces	X	
Length, cm	2.4 ± 0.2	X	
Width, cm	3.4 ± 0.2	X	
Accommodation Width, mm	2.9 ± 0.2	X	
Tri-Bar Adjustable Buckle (Large)			
No. of pieces	3 pieces	X	
Length, cm	3.2 ± 0.2	X	
Width, cm	6.1 ± 0.2	X	
Accommodation Width, mm	5.2 ± 0.2	X	
Ladder Lock			
No. of pieces	4 pieces	X	
Length, cm	4.5 ± 0.2	X	
Width, cm	3.4 ± 0.2	X	
Wire Adjustable buckle			
No. of pieces	2 pieces	X	
Length, cm	2.8 ± 0.2	X	
Width, cm	4.2 ± 0.2		
Accommodation Width, mm		X	
Wire Side	2.1 ± 0.2	X	
Adjustable Bar	2.7 ± 0.2	X	
Bungee Cord Lock			
No. of pieces	1 piece	Χ	-
Length, cm	2.8 ± 0.2		X
Width, cm	1.5 ± 0.2		X
Zipper	Nylon		/\
Color	OD	X	
Main Pocket/Extension	No 8 - 10	X	



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TEST PARAMETERS	QM SPEC NR IE - 22BTM 10 June	Classification	
	2017 with Amend 1 dtd 20 April 2018	Major	Mino
Side Pockets	No. 4 - 5	Χ	
Thread	Nylon or Polyester		X
Color	OD	Χ	
No. of Ply	2 (minimum)		X
Breaking Strength, kg	1.5		Х
Construction			
Make Body and Bottom	It shall be cut from the basic material as specified in para 2.2.1, to the correct size and shape. The upper body of the backpack shall be provided with two (2) heavy duty nylon zipper, no 8 - 10, 69.0 + 3.0 cm long for closure and shall be concealed with the basic material 3.5 + 0.2 cm width	Χ	
	The inside of the backpack shall be provided with padding #2 on one side covered with lining material as specified in para 2.2.2. It shall Join the ends of the fabric and lining material with a binding tape and sewed in a double-lapped seam.	Х	
	The back of the Backpack shall be provided with padding #1 cut on size and shape in accordance to the design in the attached illustration.	X	
	The padding shall be covered with mesh material as prescribed in para 2.2.3. The padding shall be placed at the back of the backpack and sewn over the basic material to elevate the padding and provide cushioning and ventilation to the back of the user, as illustrated.	X	
Shoulder Strap Padding	The two (2) pieces shoulder strap shall be provided with padding #1 constructed with the material as specified in para 2.2.6 and shall be covered with the basic material on the face side and mesh on the reverse side, as illustrated.	Х	
	The shoulder strap padding shall be connected to the bottom strap (strap #2) with a length of 50 cm (minimum) using a ladder lock adjustable buckle.	X	



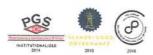
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Buckle as specified in 2.2.8

TEST PARAMETERS	QM SPEC NR IE - 22BTM 10 June 2017 with Amend 1 dtd 20 April 2018	Classification	
		Major	Minor
Belt Waist Strap	The strap shall be secured with a strap		X
	keeper, olive drab in color.		
Hip Padding	The hip padding is cut in accordance to	X	
	size and shape as shown in the attached		
	illustration. It shall cover with the basic		
	material on the face side and mesh		
Coming Otaco	material on the reverse/back side.		
Carrying Straps	There shall be two (2) carrying straps.	X	
	Carrying strap #1 is made of strap #1,		X
	folded in the middle and sewn at the		530
	sides. It is placed and sewn just above		
	the shoulder strap padding.		
	Carrying strap #2 is made of strap #1,		Χ,
	placed and sewn at the top of the		
	backpack, as illustrated. It shall double		
Voloro Tono	with strap #2 and with bar tacks.		
Velcro Tape	It shall have a Velcro tape (hook and	Χ	
	loop), OD in color sewn in the top of the		
	backpack parallel to carrying strap #2, as illustrated.		
	do mustrateu.		
	The dimension is 5.0 ± 0.5 cm long and		X
	has a width of 12.0 \pm 0.5 cm.		
Backpack Rain Cover	The backpack cover shall be made of	Χ	
	lining material as specified in para 2.2.2	**	
	with coating on the reverse side and		
	placed/attached inside the pocket		
	located at the bottom of the backpack		
	It shall be enclosed with a no. 4-5 zipper		X
	and with a length of 15.0 ± 2.0 cm.		
	The backpack cover shall be attached in		Χ
	a tri-bar adjustable buckle for		
	adjustment.		
	The edge of the backpack cover shall	X	
	garter, olive drab in color to serve as		
	binding tape and better grip/fit in the		
	backpack when in used.		
	The state of the s		
	The seam of the backpack cover shall		X
	be sewn with a binding tape specified in		
	para 2.2.5.		



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TEST PARAMETERS	QM SPEC NR IE - 22BTM 10 June	Classification	
	2017 with Amend 1 dtd 20 April 2018	Major	Minor
Extension	The material for the bag extension shall be made of the basic material sewn at the back portion of the backpack and shall be provided with zipper No. 8 – 10 for closure and opening of the backpack extension, as illustrated.	Х	
Utility pouch	The utility pouch shall be made of lining material as specified in para 2.2.2. It shall be placed/attached inside of the 20.0 + 2.0 cm long slash pocket located between the two (2) front pockets, as illustrated.	X	
	The utility pouch shall be provided with two (2) straps #3, 23.0 + 0.5 cm long sewn both on the lower side of the pouch with quick release buckle (male) that will corresponds in the quick release buckle (female) that are sewn on each of the lower side of the backpack, as illustrated.	X	
	The opening edge of the utility pouch shall be provided with elastic cord, eyelet and a bungee cord lock for closure.	X	
Dimension	See Detail A		X
Inside Pocket	The inside pocket shall be one-piece made from the lining material specified in para 2.2.2 double thickness with padding #2 in the inside.	X	
Front Pockets	It shall have two (2) sewn front pockets made of the basic material and provided with two (2) heavy duty nylon zippers, No. 4 - 5 for closure.	Х	
Front Pockets (small)	It shall have two (2) modular straps (strap # 2) are sewn and bar tacked on the front of the pocket. The inside of the pocket shall have a lining and the seam is joined with a binding tape.	X	
Front Pockets (Big)	It shall have four (4) modular straps (strap # 2) are sewn and bar tacked on the front of the pocket. The inside of the pocket shall have a lining and the seam is joined with a binding tape. The zipper shall be concealed with the basic material.	X	



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TEST PARAMETERS	QM SPEC NR IE - 22BTM 10 June 2017 with Amend 1 dtd 20 April 2018	Classification	
		Major	Minor
Side Pockets	It shall have three (3) modular side pockets made of the basic material and provided with two (2) heavy duty nylon zipper, No. 4 – 5 each for closure and concealed with the basic material. It shall have a lining inside the pocket and the joining seam is sewn with a binding tape.	Х	
Side Pocket (small)	It shall have three (3) MOLLE webbing straps (strap #2) are sewn and bar tacked on the front and back of the pocket. There shall be two (2) MOLLE attachment strap (strap #2), 24.0 + 1.0 cm long, sewn and bar tacked on the back of the pocket.	Х	
	One end of the MOLLE attachment strap shall be folded to serve as lock during attachment of pocket to the MOLLE webbing strap in the side part of the backpack, as illustrated.		X
Side Pocket (medium)	It shall have three (3) MOLLE webbing strap (strap #2) are sewn and bar tacked on the front and the back of the pocket. There shall be two (2) MOLLE attachment strap (strap #2), 24.0 + 1.0 cm long, sewn and bar tacked on the back of the pocket.	Х	
	One end of the MOLLE attachment strap shall be folded to serve as lock during attachment of pocket to the MOLLE webbing strap in the side part of the backpack, as illustrated.		X
Side Pocket (long)	It shall have six (6) MOLLE webbing strap (strap #2) are sewn and bar tacked on the front and the back of the pocket. There shall be four (4) MOLLE attachment strap (strap #2), 24.0 + 1.0 cm long.	Х	
	The two (2) attachment straps are sewn and bar tacked on the upper portion of the back pocket while the other two (2) attachment straps are sewn and bar tacked on the middle of the back of the pocket.		Х



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TEST PARAMETERS	QM SPEC NR IE - 22BTM 10 June	Classification		
	2017 with Amend 1 dtd 20 April 2018	Major	Minor	
	One end of the MOLLE attachment strap shall be folded to serve as lock during attachment of pocket to the MOLLE webbing strap in the side part of the backpack, as illustrated.		Х	
Bottom MOLLE webbing Straps	The bottom of the backpack shall be provided with two (2) MOLLE webbing straps (strap #2), 48.0 ± 2.0 cm to serve as reinforcement for the bottom part of the backpack.		X	
Side MOLLE webbing Straps	Each side of the backpack shall be provided with six (6) MOLLE webbing strap for attachment of the pocket, as illustrated.	X		
Quick Release Buckle (small)	There shall be a quick release buckle (small) sewn in the seam on each of the middle front side (both left and right) and upper front side (both left and right) portion of the backpack. It is placed symmetrically on the left and right portion of the backpack, as illustrated.		X	
Compression Strap	The Backpack shall be provided with compression strap by using a quick release buckle (medium).	Х		
	The two (2) compression strap shall be sewn at each side of the backpack align at both ends of the zipper main pocket.		Χ	
	It shall be attached by forming a loop and the strap together with the male quick release buckle (medium) will passed through the loop and across the side of the backpack to fasten the male quick release buckle to the female quick release buckle that is sewn at the edge of the back of the backpack, as illustrated.		X	
Draw Cord	All zippers shall be provided with a draw cord, 23.0 ± 3.0 cm long for easy accessibility	X		
Strap Keeper	All loose ends or hanging straps shall be provided with a strap keeper, olive drab in color for managing excess webbing straps.	X		
Stitches	All sewing and stitching shall be running stitches ranging from 8 – 10 stitches per 2.54 cm.		X	





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TEST PARAMETERS	QM SPEC NR IE - 22BTM 10 June 2017 with Amend 1 dtd 20 April 2018	Classification	
		Major	Minor
Manufacturer Label	With Manufacturer's Label	Х	
Location	Printed on the inside upper center of backpack		Х
Type of Ink	Black ink or Paint	Х	
Size of Label	The letters BACKPACK, TACTICAL MOLLE shall be Arial font, size 20 while the rest of the label data shall be Arial font size 12.		X
Contents of Label	The Manufacturer's label shall consist of the ff: BACKPACK, TACTICAL MOLLE QM SPEC NR IE- 22BTM Name of Manufacturer: Date Manufactured:	X	
ARMY "Marking"	With Army Marking	Х	
Location	Printed on the upper center portion of the front pocket (big)	Χ	
Type of Ink	Black ink or Paint	Χ	
Type and Size of Lettering	Stencil font, Size 150		X
Finish	The Backpack, Tactical MOLLE shall be clean, well finished and free from any defect which may affect its appearance or serviceability.	X	
TOTAL TEST POINTS		122	61

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