

**UNITED NATIONS / DOT
PERFORMANCE CERTIFICATION**



31HA1 PERIODIC DESIGN REQUALIFICATION

**330 Gallon Composite IBC with 6" Fill Opening
with Composite Pallet**

TEST REPORT #: 24-MN40042



31HA1 / Y / * / USA / M**** / 4399 / 2431

* Insert the month and year (last two digits) of manufacture

TESTING PERFORMED FOR:

CORE PLASTECH INTERNATIONAL, INC.

1575 West Big Rock Road
Waterloo, IA 50703

ATTN: Sanjay Yadav

TESTING PERFORMED BY:

TEN-E PACKAGING SERVICES, INC.

1666 County Road 74
Newport, MN 55055
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March 22, 2024

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SECTION I: CERTIFICATION

**PERIODIC DESIGN REQUALIFICATION of the Core Plastech International, Inc.
 330 Gallon Composite IBC with 6" Fill Opening with Composite Pallet**

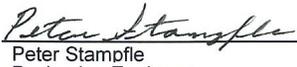
TEN-E Packaging Services, Inc. is a current DOT UN Third-Party Certification Agency under §107.403 and certifies that the **Core Plastech International, Inc.** packaging referenced above has passed the standards of the DEPARTMENT OF TRANSPORTATION'S TITLE 49 CFR; Performance Oriented Packaging Standards, Section 178. This package is also certified under IMDG and the UN Recommendations on the Transport of Dangerous Goods. It is the responsibility of the end user to determine authorization for use under these regulations. The use of other packaging methods or components other than those documented in this report may render this certification invalid.

SUMMARY OF PERFORMANCE TESTS					
UN / DOT TEST	49 CFR REFERENCE	TEST LEVEL	TEST CONTENTS	TEST COMPLETED	TEST RESULTS
Vibration	178.819	3.3 Hz – 1 Hour	Water	March 21, 2024	PASS
Bottom Lift	178.811	3,134.8 Kg	Water	March 21, 2024	PASS
Stacking	178.815	4,445.3 Kg – 24 Hours	Water	March 22, 2024	PASS
Leakproofness	178.813	20 kPa – 10 Minutes	Empty	March 22, 2024	PASS
Hydrostatic	178.814	100 kPa – 10 Minutes	Water	March 22, 2024	PASS
Drop	178.810	1.9 m	Methanol/Water	March 22, 2024	PASS
TEST REPORT NUMBERS:			24-MN40042, 23-MN40036		
UN MARKING: (CFR 49 – 178.703)					
PACKAGING IDENTIFICATION CODE:			31HA1 (178.707 Composite IBC)		
PERFORMANCE STANDARD:			Y (Packaging meets Packing Group II and III tests)		
MONTH AND YEAR OF MANUFACTURE:			*		
STATE AUTHORIZING ALLOCATION OF THE MARK:			USA		
PACKAGING CERTIFICATION AGENCY:			(+AA) TEN-E Packaging Services, Inc. (Newport, MN CAA #2006030022)		
SYMBOL OF THE MANUFACTURER:			M **** (Insert Manufacturer's Registered Number)		
STACKING TEST LOAD:			4,445 Kg (9,800 Lbs.)		
MAXIMUM PERMISSIBLE GROSS MASS:			2,451 Kg (5,403 Lbs.)		
PERIODIC DESIGN REQUALIFICATION DATE:			March 22, 2025		
ADDITIONAL REQUIRED RIGID PLASTIC & COMPOSITE IBC MARKINGS (CFR 49 – 178.703(b)):					
RATED CAPACITY AT 20°C (liters):			Insert IBC Rated Capacity		
TARE MASS (Kg):			Insert Individual IBC Tare Mass		
GAUGE TEST PRESSURE (kPa):			100 kPa		
DATE OF LAST LEAKPROOFNESS TEST:			Insert Month & Year of Last Leakproofness Test		
DATE OF LAST INSPECTION:			Insert Month & Year of Last Inspection		

ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY THAT THE PACKAGING TESTED IS MERCHANTABLE OR FIT FOR A PARTICULAR PURPOSE, ARE DISCLAIMED. In no event shall TEN-E Packaging Services, Inc. liability exceed the total amount paid by **Core Plastech International, Inc.** for services rendered. In the event of future changes to the above referenced test standards, it is the responsibility of **Core Plastech International, Inc.** to determine whether additional testing or updating of past testing is necessary to verify that the packaging we have tested remains in compliance with those standards.

MANUFACTURER:
 Core Plastech International, Inc.
 1575 West Big Rock Road
 Waterloo, IA 50703


 Oscar Mejia
 Technician
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SECTIONS II & V: PACKAGING DESCRIPTIONS / COMPONENT DRAWINGS

330 Gallon Composite IBC with 6" Fill Opening with Composite Pallet				
ASSEMBLY DRAWING	TEST LEVELS			
	Certification Type:	Periodic Design Requalification		
	Packaging Code Designation:	31HA1		
	Packing Group:	II		
	Specific Gravity:	1.9		
	Test Pressure:	70 kPa and 100 kPa		
	TEST SAMPLE PREPARATION (Refer to Section IV)			
	Overall IBC Tare Weight: (Sample #1 and Sample #2)	64.0 Kg	141.1 Lbs.	
	Net Fill Weight (98% Maximum Capacity):			
	Water (Sample #1)	1,256.4 Kg	2,769.9 Lbs.	
	Methanol/Water (Sample #2)	1,204.5 Kg	2,655.5 Lbs.	
IBC Test Weight:				
Water (Sample #1)	1,320.4 Kg	2,910.9 Lbs.		
Methanol/Water (Sample #2)	1,268.5 Kg	2,796.5 Lbs.		
Maximum Permissible Gross Mass:	2,451.1 Kg	5,403.6 Lbs.		
CLOSING METHODS				
6" Fill Port Cap:				
Application Torque:	100 Ft-Lbs.			
Equipment:	Torque Wrench #742			
2" G2 Plug:				
Application Torque:	18 Ft-Lbs.			
Equipment:	Torque Wrench #740			
Dispensing Valve:				
Valve to IBC Body	70 Ft-Lbs.			
Closure	Torque Wrench #740			

COMPONENT INFORMATION

CENTER PLUG		DRAWING
Manufacturer: GNX, India		
Description:	2" Non-Vented Center Plug NPS	
Material:	Polyethylene, White	
Tare Weight:	20.280 Grams	
Overall Dimensions:		
• Height	28.2 mm (1.11")	
• Top Diameter	60.2 mm (2.37")	
• Bottom Diameter	56.4 mm (2.22")	
• Bottom Center Diameter	17.7 mm (0.70")	
Thread Dimensions:		
• Major	58.7 mm (2.31")	
• Minor	55.9 mm (2.20")	
Markings (QC Audit):	A-144 3 5/22 SPI "2" HDPE Recycling Symbol	
GASKET		
Material:	White EPDM Gasket	
Tare Weight:	1.519 Grams	
Thickness:	2.4 mm (0.09")	
Diameter:	57.9 mm (2.28")	
TOP FILL CAP		DRAWING
Manufacturer: GNX, India		
Description:	6" (DN 150) Threaded Cap with 2" (60 mm) Center Threaded Opening	
Material:	Polyethylene, Black	
Tare Weight:	240 Grams	
Overall Dimensions:		
• Height	42.23 mm (1.66")	
• Bottom Diameter	185.1 mm (7.29")	
2" Thread Dimensions (Center NPS Opening):		
• Major	58.8 mm (2.31")	
• Minor	57.6 mm (2.27")	
6" Thread Dimensions (to Bottle):		
• Major	161.8 mm (6.37")	
• Minor	154.7 mm (6.09")	
Markings (QC Audit):	L4-5 7/22 1 I-96 GNX SPI "02" PE-HD Recycling Symbol	
GASKET		
Description/Material:	White EPDM Gasket	
Tare Weight:	17 Grams	
Thickness:	6.9 mm (0.27")	
Diameter:	154.6 mm (6.09")	

DISPENSING VALVE		DRAWING	
Manufacturer: AVION, India			
BALL VALVE			
Description:	2" Ball Style Dispensing Valve		
Material:	Polypropylene, Black with White Handle		
Tare Weight:	398 Grams		
Overall Dimensions:			
• Length	135.48 mm (5.33")		
• Width	98.63 mm (3.88")		
• Height	109.45 mm (4.31")		
Thread Dimensions	To Accommodate Closure		To Accommodate Bottle
• Major Diameter	57.96 mm (2.28")		61.80 mm (2.43")
• Minor Diameter	55.60 mm (2.19")		56.03 mm (2.21")
Markings (QC Audit):	AVION 12/23 5 8 122205297-BD ABL56Q3Y SPI "5" PP Recycling Symbol		
GASKET			
Description:	FKM Green O-Ring		
Tare Weight:	8.421 Grams		
Thickness:	4.8 mm (0.19")		
Diameter:	54.0 mm (2.13")		
VALVE CLOSURE			
Description:	Threaded Valve Closure		
Material:	High Density Polyethylene, White		
Tare Weight:	20.546 Grams		
Overall Dimensions:			
• Height	14.8 mm (0.58")		
• Diameter	77.3 mm (3.04")		
Thread Dimension:			
• Major Diameter	59.7 mm (2.35")		
• Minor Diameter	56.7 mm (2.23")		
Markings (QC Audit):	1 11/22 SPI "2" HDPE Recycling Symbol		
LINER			
Description:	Laminated Polyethylene Foam		
Tare Weight:	2.253 Grams		
Diameter:	2.0 mm (0.08")		
Thickness:	56.9 mm (2.24")		
Seal:	PE / Foil Seal		

RIGID PLASTIC INNER RECEPTACLE (Drg. No.: 3 11 18 1346 R0)		DRAWING
Manufacturer: Core Plastech, Nashua, IA		
Description:	330 Gallon GNX Rigid Plastic Inner Receptacle with 6" Buttress Threaded Top Opening and 2" Threaded Bottom Dispensing Valve Opening	
Material:	High Density Polyethylene, Natural	
Method of Manufacture:	Blow Molded	
Tare Weight:	19.0 Kg	
Capacity:		
• Rated	330 Gallons (1,249.0 Liters)	
• Overflow	338.7 Gallons (1,282.0 Liters)	
Overall Dimensions:		
• Length	1,165.0 mm ± 5 mm	
• Width	965.0 mm ± 5 mm	
• Height	1,190.0 mm ± 5 mm	
Top Fill Port Opening Thread Dimensions:		
• Major	162.54 mm (6.40")	
• Minor	151.51 mm (5.965")	
Bottom Dispensing Valve Opening Thread Dimensions:		
• Major	60.65 mm (2.388")	
• Minor	54.93 mm (2.163")	
Wall Thickness (Minimum):		
• Corner Bottom	1.168 mm (0.046")	
• Corner Top	1.575 mm (0.062")	
• Side Panels	1.245 mm (0.049")	
• Drainage Area	2.210 mm (0.087")	
Markings (QC Audit):	31HA1M6659USA GNX IC21 1/24 SPI "2" PE-HD Recycling Symbol	
CORNER SUPPORT INSERTS		
Material:	High Density Polyethylene, Black	
Tare Weight:	279 Grams	
Overall Dimensions:	15" (L) x 13-3/4" (W) x 5-3/4" (H)	
Markings (QC Audit):	GNX RH SPI "2" PE-HD Recycling Symbol	

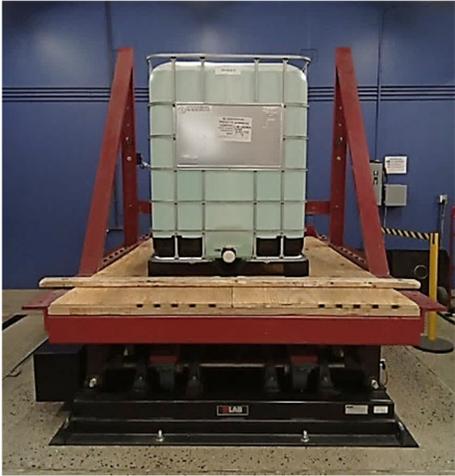
SUPPORT BARS		DRAWING
Manufacturer: Core Plastech, Nashua, IA		
Material:	(2) Galvanized Steel	
Tare Weight:	463 Grams	
Length:	39-1/2"	
Attachment Method:	(2) Hexagon Head Screws with Washer Assembly, (2) Sets per Bar	
CAGE		
Manufacturer: Core Plastech, Nashua, IA		
Description:	Steel Cage With <ul style="list-style-type: none"> • (2) Front and Rear Steel Panels with Clips • Square Style Bars • 4-Way Entry Composite Pallet 	
Material:	Steel and Black Plastic	
Tare Weight	43.0 Kg	
Overall Dimensions:		
• Length	47"	
• Width	39-1/2"	
• Height w/o Pallet	47-3/4"	
• Height with Pallet	52-3/8"	
Attachment Method:	(9) Hexagon Head Screws <ul style="list-style-type: none"> • (1) Each Corner • (1) Each Centered on Two Sides and Back • (1) Each Side of Recessed Area for Outlet Flange 	
Markings (QC Audit):	(u n) BULK TAINER GNX® PATENTS PENDING NEXT GENERATION IBCS CORE PLASTECH	

SECTION III: TEST PROCEDURES AND RESULTS

VIBRATION TEST

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Water	<ul style="list-style-type: none"> An IBC passes the vibration test if there is no rupture or leakage. (§178.819)
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	Ambient	
TABLE DISPLACEMENT:	1"	
TEST FREQUENCY:	3.3 Hz	
TEST DURATION:	1 Hour	
TEST EQUIPMENT:	Vertical motion using L.A.B. 10000 Transportation Simulator	

VIBRATION TEST SET-UP AND RESULTS (SAMPLE #1)

	Results	Comments/Observations
	PASS	The IBC met the criteria for passing the test. No leakage or damage.

BOTTOM LIFT TEST

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Water	<ul style="list-style-type: none"> For all IBC design types designed to be lifted from the base, there may be no permanent deformation which renders the IBC unsafe for transportation and no loss of contents. (§178.811)
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	Ambient	
NUMBER OF LIFTS:	8 (Four-Way Entry with 2 Lifts per Direction of Entry)	
FORK TINE PENETRATION:	Entry 1 & 2: 36" Entry 3 & 4: 30"	
COMBINED GROSS MASS LIFTED:	3,134.8 Kg (6,911.0 Lbs.) (Refer to Section IV)	
TEST EQUIPMENT:	Fork Truck Dead Load Weights	

BOTTOM LIFT TEST SET-UP AND RESULTS (SAMPLE #1)

Direction of Entry #1	Direction of Entry #2	Direction of Entry #3	Direction of Entry #4
			
Results		Comments/Observations	
Lift #1: PASS	Lift #5: PASS	The IBC met the criteria for passing the test. No leakage or damage.	
Lift #2: PASS	Lift #6: PASS		
Lift #3: PASS	Lift #7: PASS		
Lift #4: PASS	Lift #8: PASS		

STACKING TEST

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Water	<ul style="list-style-type: none"> For metal, rigid plastic, and composite IBCs, there may be no permanent deformation, which renders the IBC unsafe for transportation, and no loss of contents. <p>(§178.815)</p>
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	Ambient	
TEST LOAD APPLIED:	4,445.3 Kg (9,800.0 Lbs.) (Refer to Section IV)	
TEST DURATION:	24 Hours	
TEST EQUIPMENT:	L.A.B. G23077 Compression System	

STACKING TEST SET-UP AND RESULTS (SAMPLE #1)

	Results	Comments/Observations
	PASS	<p>The IBC met the criteria for passing the test.</p> <p>0.10" maximum deflection after 24 Hours.</p> <p>No leakage or damage.</p>

LEAKPROOFNESS TEST

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Empty	<ul style="list-style-type: none"> For all IBC design types intended to contain solids that are loaded or discharged under pressure or intended to contain liquids, there may be no leakage of air from the IBC. (§178.813)
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	Ambient	
TEST PRESSURE:	20 kPa	
TEST DURATION:	10 Minutes	
AREA OF PRESSURIZATION:	Through Top Head	
TEST EQUIPMENT:	Regulated Air Source #: 2 Pressure Gauge #: 615 & 641	

LEAKPROOFNESS TEST SET-UP AND RESULTS (SAMPLE #1)

Set-Up Photo	Leakproofness Photo	Pressure Gauge Photo
		
Results	Comments/Observations	
PASS	The IBC met the criteria for passing the test. No leakage.	

HYDROSTATIC PRESSURE TEST

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Water	<ul style="list-style-type: none"> For rigid plastic and composite IBC design types intended to contain solids loaded or discharged under pressure or intended to contain liquids, there may be no leakage and no permanent deformation which renders the IBC unsafe for transportation. (§178.814)
WATER TEMPERATURE:	20.2°C (68.4°F)	
FILL CAPACITY:	Maximum Capacity	
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	Ambient	
TEST PRESSURE:	70 kPa and 100 kPa	
TEST DURATION:	10 Minutes at Each Pressure	
AREA OF PRESSURIZATION:	Through Top Head	
TEST EQUIPMENT:	Regulated Water Source #: 2 Pressure Gauge #: 615 & 641	

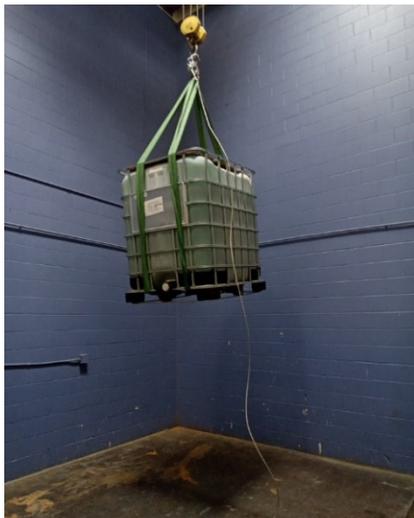
HYDROSTATIC PRESSURE TEST SET-UP AND RESULTS (SAMPLE #1)

Set-Up Photo	Hydrostatic Pressure Photo	Pressure Gauge Photos
		 
Results	Comments/Observations	
PASS	<p>The IBC met the criteria for passing the test. No leakage was present after 10 minutes at an internal pressure of 70 kPa. The pressure was increased to 100 kPa and no leakage was present after 10 minutes.</p>	

DROP TEST

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Methanol/Water Solution (0.964 SG)	<ul style="list-style-type: none"> For all IBC design types, there may be no damage which renders the IBC unsafe to be transported for salvage or for disposable, and no loss of contents. The IBC shall be capable of being lifted by an appropriate means until clear of the floor for five minutes. A slight discharge from closures upon impact is not considered a failure provided that no further leakage occurs. (§178.810)
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	-18°C (0°F) Chamber #202	
TEST CONTENTS TEMP.:	-18.5°C (-1.3°F)	
DROP HEIGHT:	1.9 Meters (75") (Refer to Section IV)	
DROP ORIENTATION:	Most Vulnerable Part of Base	
TEST EQUIPMENT:	Quick Release Hook Mechanism 5 Ton Overhead Hoist	

DROP TEST SET-UP AND RESULTS (SAMPLE #2)

Set-Up Photo	Post Drop Photo	Post Drop Photo
		
Results	Comments/Observations	
PASS	The IBC met the criteria for passing the test. No leakage.	

REGULATORY AND INDUSTRY STANDARD REFERENCES

REGULATORY REFERENCES

TEST	49 CFR ^①	UN ^②	IMDG ^③
	October 2023 Edition	23 rd Edition	2022 Edition
Vibration:	178.819	6.5.6.13	6.5.6.13
Bottom Lift:	178.811	6.5.6.4	6.5.6.4
Stacking:	178.815	6.5.6.6	6.5.6.6
Leakproofness:	178.813	6.5.6.7	6.5.6.7
Hydrostatic Pressure:	178.814	6.5.6.8	6.5.6.8
Drop:	178.810	6.5.6.9	6.5.6.9

① United States Department of Transportation Code of Federal Regulations (CFR) Title 49, Transportation, Parts 100-185

② The United Nations Recommendations on the Transport of Dangerous Goods – Model Regulations (UN – Orange Book)

③ International Maritime Dangerous Goods Code (IMDG)

INDUSTRY STANDARD REFERENCES

Vibration:	ASTM ^④ D7387:	Standard Test Method for Vibration Testing of IBCs Used for Shipping Liquid Hazardous Materials (Dangerous Good)
	ISO ^⑤ 2247:	Packaging – Complete, Filled Transport Packages – Vibration Test at Fixed Low Frequency
Stacking:	ASTM ^④ D8409:	Standard Guide for Conducting Stacking Tests on UN Packagings Using Guided or Unguided Loads
	ASTM ^④ D4577:	Standard Test Method for Compression Resistance of a Container Under Constant Load
	ISO ^⑤ 2234:	Packaging – Complete, Filled Transport Packages – Stacking Test using Static Load
Pressure:	ASTM ^④ D8134:	Standard Guide for Conducting Internal Hydrostatic Pressure Tests on United Nations (UN) IBC Design Types
Drop:	ASTM ^④ D5276:	Standard Test Method for Drop Test of Loaded Containers by Free Fall
	ASTM ^④ D7790:	Standard Test Method for the Preparation of Plastic Packagings Containing Liquids for United Nations (UN) Drop Testing
	ISO ^⑤ 2248:	Packaging – Complete, Filled Transport Packages – Vertical Impact Test by Dropping

④ American Society for Testing and Materials (ASTM)

⑤ International Organization for Standardization (ISO)

EQUIPMENT

All inspection, measuring and test equipment that can affect product quality is calibrated and adjusted at prescribed intervals, or prior to use, and is traceable to NIST, using ANSI Z540 as an overall guide for calibration certification.

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SECTION IV MATHEMATICAL CALCULATIONS

INFORMATION USED FOR CALCULATIONS

Overall IBC Tare Weight (IBCTW)-Sample 1:	64.0 Kg	141.1 Lbs.
Overall IBC Tare Weight (IBCTW)-Sample 2:	64.0 Kg	141.1 Lbs.
Overflow Capacity (OFC):		
Water	1,282.0 Kg	2,826.3 Lbs.
Methanol/Water	1,229.0 Kg	2,709.5 Lbs.
Actual Load Applied for Bottom Lift (BLALA):	1,814.4 Kg	4,000.0 Lbs.
Packing Group	II	
Product Specific Gravity (PSG):	1.90	Min Wt To Be Applied
Packing Group Multiplication Factor (MF):	1.00	3,843.2 Lbs. (Btm Lift)
# of IBC Stacked During Transportation (#IBC):	2	

98% OF OVERFLOW

Overflow Capacity (OFC) x 98%

<u>OFC</u>	x	<u>98%</u>					
1,282.0	x	98% =	1,256.4	Kg	2,769.9	Lbs. Water	Sample #1
1,229.0	x	98% =	1,204.5	Kg	2,655.5	Lbs. Methanol/Water	Sample #2

IBC TEST WEIGHT (IBCW)

Overall IBC Tare Weight (IBCTW) + 98% Overflow Capacity (OFC)

<u>IBCTW</u>	+	<u>98% OFC =</u>					
64.0	+	1,256.4	1,320.4	Kg	2,910.9	Lbs. Water	Sample #1
64.0	+	1,204.5	1,268.5	Kg	2,796.5	Lbs. Methanol/Water	Sample #2

AUTHORIZED IBC GROSS MASS (AIBCGM)

Overall IBC Tare Weight (IBCTW) + (Product SG (PSG) x 98% Overflow (OFC))

<u>IBCTW</u>	+	<u>(PSG</u>	x	<u>98% OFC)</u>			
64.0	+	1.90	x	1,256.4			
		2,451.1	Kg	5,403.6	Lbs.		



TEN-E Packaging Services, Inc.

BOTTOM LIFT CALCULATIONS

The IBC must be loaded to 1.25 times the combined maximum permissible gross mass with load being evenly distributed

Minimum Required Load

Authorized IBC Gross Mass x 1.25

<u>ABCGM</u>	x	<u>1.25</u>	=	<u>Minimum Required Load</u>		
2,451.1	x	1.25	=	3,064.0 Kg	6,754.9	Lbs.

Combined Gross Mass Lifted

Actual Load Applied (ALA) + IBC Test Weight (IBCW)

<u>IBCW</u>	+	<u>ALA</u>	=	<u>Total Load Lifted</u>		
1,320.4	+	1,814.4	=	3,134.8 Kg	6,911.0	Lbs.

STACK TEST CALCULATIONS

The IBC must be loaded to 1.8 times the combined maximum permissible gross mass of the number of similar IBCs that may be stacked on top of the IBC during transportation

Minimum Required Load

Authorized IBC Gross Mass x # of IBC Stack During Transportation (-1) x 1.8

<u>ABCGM</u>	x	<u>#IBC (-1)</u>	x	1.8	=	<u>Minimum Required Load</u>	
2,451.1	x	1.00	x	1.8	=	4,412.2 Kg	9,727.0 Lbs.

DROP HEIGHT

Calculation For Product Specific Gravities Exceeding 1.2

Product Specific Gravity (PSG) x Packing Group Multiplication Factor (MF)

<u>PSG</u>	x	<u>MF</u>		Packing Group: II
1.90	x	1.00	<u>Required Drop Height</u>	<u>Actual Drop Height</u>
		1.90 Meter	74.8 Inches	75 Inches

APPENDIX A: MANUFACTURER'S LEAKPROOFNESS TESTING STATEMENT**LEAKPROOFNESS TESTING STATEMENT**

Core Plastech International Inc. manufactures composite IBCs that are compliant with all applicable regulatory requirements in 49 CFR for the design types marked as 31HA1. Core applies a UN mark to every inner receptacle manufacture in its North America facilities that is compliant with DOT regulations, including 49 CFR 178.703

Every inner receptacle manufactured by Core in North America is visually inspected and leak proofness tested in compliance with 49 CFR 178.813. For inner receptacles sold with representative service equipment preinstalled i.e. bottom discharge valve, every unit is visually inspected and leak-tested with the valve in place, and the leak proofness testing date, as performed by Core on its inner receptacles.

The remanufacturer or service provider who installs Core inner receptacles in structural equipment is responsible for the full UN mark, in accordance with the test report, on the rebottled or remanufactured units.