Horizon Package Testing Service Inc.

**Certifying Party:** Ms. Marie O. Mills  
Jet Research Center, a Division of Halliburton  
8432 South I-35W  
Alvarado, TX 76009

### Packaging Description

NOTE: Packagings submitted are for Design Qualification Testing and require preconditioning per 49 CFR 178.602 (d).  
Designated Packaging Code: 4G  
Packing Group II (Y)

A Combination Package (18 x 12 x 6.5) comprising two (2) heat sealed Static Shield Bags containing charges nested within die-cut openings within a corrugated tray. The sealed Static Shield bags are installed between a single wall Kraft/Kraft bottom and top pad. Inner packagings are placed into a double wall Kraft/Kraft Regular Slotted Fiberboard Container (RSC) outer packaging. Outer closure method tested with four (4) 15mm metal staples (2-staples on each side of center) top flap seam and bottom flap seam. *The use of other packaging methods or components may render this report invalid.*

### Packaging Performance Tests

<table>
<thead>
<tr>
<th>TEST</th>
<th>SPEC</th>
<th>TEST LEVEL</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>COBB TEST</td>
<td>UN Para 6.1.4.12.1</td>
<td>129.8 g/m²</td>
<td>Pass</td>
</tr>
<tr>
<td>DROP TEST</td>
<td>UN Para 6.1.5.3</td>
<td>1.2 meter</td>
<td>Pass</td>
</tr>
<tr>
<td>STACKING TEST</td>
<td>UN Para 6.1.5.6</td>
<td>427.5 kg</td>
<td>Pass</td>
</tr>
<tr>
<td>VIBRATION STANDARD</td>
<td>49CFR 178.608</td>
<td>1 hour</td>
<td>Pass</td>
</tr>
</tbody>
</table>

### UN/DOT Package Marking

In accordance with the US Code of Federal Regulations Volume 49 Section 178.601, I certify that the samples of the Package, prepared as for transport, described herein and tested in the manner summarized above, successfully pass the tests according to the criteria specified in paragraphs 6.1.4.12.1, 6.1.5.3, and 6.1.5.6 as set forth in the UN Recommendations of the Committee of Experts on the Transportation of Dangerous Goods, Chapter 6, and US 49CFR Section 178.608, and that the packages may bear the marking:

4G / Y 27.3 / S / *  
USA/+CA2034

* Year of Manufacture

By______________________________________________  Date: June 29, 2016  
JAMES A. STEVENS  
HORIZON PACKAGE TESTING SERVICE, INC. CERTIFICATION OFFICER

5002 E. 119th St.  Grandview, MO  64030  816-767-8400  816-767-8966
Ms. Marie O. Mills  
Jet Research Center, a Division of Halliburton  
8432 South I-35W  
Alvarado, TX 76009  
817-761-2201

Gentlemen/Mesdames:

RE: Summary of Packaging Performance for UN/IACO/IMDG  
Transport of Dangerous Goods, Packing Group II  
Certification: +CA2034  
Project ID: #2562  
ID: 18 x 12 x 6.5

Tests performed to certify compliance with the UN Recommendations of the Committee of Experts on the Transport of Dangerous Goods, Chapter 6, Twelfth Revised Edition and US 49CFR Section 178.608, as follows:

<table>
<thead>
<tr>
<th>TEST</th>
<th>SPEC</th>
<th>TEST LEVEL</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>COBB TEST</td>
<td>UN Para 6.1.4.12.1</td>
<td>129.8 g/m²</td>
<td>Pass</td>
</tr>
<tr>
<td>DROP TEST</td>
<td>UN Para 6.1.5.3</td>
<td>1.2 meter</td>
<td>Pass</td>
</tr>
<tr>
<td>STACKING TEST</td>
<td>UN Para 6.1.5.6</td>
<td>427.5 kg</td>
<td>Pass</td>
</tr>
<tr>
<td>VIBRATION STANDARD</td>
<td>49CFR 178.608</td>
<td>1 hour</td>
<td>Pass</td>
</tr>
</tbody>
</table>

The packages satisfy the requirements for a fiberboard box (4G) outer packaging tested to Packing Group II specifications for a Type Y certificate. The use of other packaging methods or components may render this report invalid.

NOTE: 49CFR 178.601 (e) For combination packaging, periodic retests must be conducted at least once every 24-months. Periodic retest is due by June 29, 2018

Respectfully submitted,  
Horizon Package Testing Service, Inc.

James A. Stevens  
Certification Officer  
JS

Encl.
Packages Tested

Two (2) heat sealed Static Shield Bags containing a corrugated single wall tray placed within a double wall Kraft/Kraft Regular Slotted Fiberboard Container (RSC) outer packaging. Outer closure method tested with four (4) 15mm metal staples (2-staples on each side of center), top flap seam and bottom flap seam.

<table>
<thead>
<tr>
<th>TEST</th>
<th>SPEC</th>
<th>Test Weight</th>
<th>Sample Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>DROP TEST</td>
<td>UN Para 6.1.5.3</td>
<td>27.3 kg</td>
<td>1, 2, 3, 4 and 5</td>
</tr>
<tr>
<td>STACKING TEST</td>
<td>UN Para 6.1.5.6</td>
<td>27.3 kg</td>
<td>6, 7, and 8</td>
</tr>
<tr>
<td>VIBRATION STANDARD</td>
<td>49CFR 178.608</td>
<td>27.3 kg</td>
<td>9, 10, and 11</td>
</tr>
</tbody>
</table>

18 x 12 x 6.5 4G Combination Package

View of Shipper and Inner Packagings
Packaging Instructions

NOTE: Tests samples were pre-packaged by customer for testing.
Packing Overview

**Photo 1:** Assemble the CTN-102358399 RSC by installing two (2) 15mm metal staples, 44.45mm (1.75 inches) and 127mm (5.0 inches) from each side along the bottom flap seam four (4) staples total.

**Photo 2:** Insert one (1) 101276057 bottom pad.

**Photo 3:** Insert the 1st 101215637 filled and sealed Static Shield Bag.

**Photo 4:** Insert the 2nd 101215637 filled and sealed Static Shield Bag.

**Photo 5:** Insert one (1) 101276057 top pad.

**Photo 6:** Complete assembly by installing two (2) 15mm metal staples, 44.45mm (1.75 inches) and 127mm (5.0 inches) from each side along the top flap seam (four (4) staples total).
Cobb Test


Methods: The absorption of water over a 30-minute period must not be greater than 155 g/m². Average the results from five (5) test specimens. Weigh each specimen before testing and place under the test apparatus consisting of a metal ring (cross-sectional area of 100 square cm) clamped to a flat base plate. Pour 100 ml of water into the ring and let stand for the 30-minute period. Pour the water from the ring 15 seconds before the expiration of the test period, blot the surface with blotting paper and roller, and immediately weigh. The difference between the original and final weight, multiplied by 100, is the weight of water absorbed, in grams per square meter. Samples were conditioned at +23°C and 50% RH for 24 hours prior to testing.

Results: Pass (*top photo, **bottom photo)

<table>
<thead>
<tr>
<th>Sample</th>
<th>Original Weight, gr</th>
<th>Final Weight, gr</th>
<th>Difference, g/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>*16.53</td>
<td>**17.81</td>
<td>128</td>
</tr>
<tr>
<td>2</td>
<td>16.78</td>
<td>18.05</td>
<td>127</td>
</tr>
<tr>
<td>3</td>
<td>16.68</td>
<td>18.02</td>
<td>134</td>
</tr>
<tr>
<td>4</td>
<td>16.65</td>
<td>17.91</td>
<td>126</td>
</tr>
<tr>
<td>5</td>
<td>16.71</td>
<td>18.05</td>
<td>134</td>
</tr>
</tbody>
</table>

• Five (5) samples reveal an average Cobb of 129.8 g/m²
Testing Orientation

1. **Identify Faces** according to the diagram below:

2. **Identify Edges** using the numbers of the two faces forming that edge.  
   **Example:** Edge 1-2 is the edge formed by face 1 and face 2 of the package.

3. **Identify Corners** using the numbers of the three faces that meet to form that corner.  
   **Example:** corner 2-3-5 is the corner formed by face 2, face 3 and face 5 of the package.

**FACES TESTED**

<table>
<thead>
<tr>
<th>Drop:</th>
<th>Stack:</th>
<th>Vibration:</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1 3</td>
<td>#6 1&amp;3</td>
<td>#9 3</td>
</tr>
<tr>
<td>#2 1</td>
<td>#7 1&amp;3</td>
<td>#10 3</td>
</tr>
<tr>
<td>#3 2</td>
<td>#8 1&amp;3</td>
<td>#11 3</td>
</tr>
<tr>
<td>#4 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>#5 1-2-5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Drop Test

Guidelines: Code of Federal Regulations 49, Section 178.603; UN Para 6.1.5.3; ASTM D4919 (7.1)

Methods: Five samples, one for each drop, are required for testing. First drop: Flat on bottom (using 1st sample). Second drop: Flat on top (using 2nd sample). Third drop: Flat on the long side (using 3rd sample). Fourth drop: Flat on short side (using 4th sample). Fifth drop: On a corner (using 5th sample). Testing of 4G combination packagings containing inner articles for solids is performed when the packagings have been filled to 95% of capacity and the completed packagings were conditioned at +23°C and 50% RH 24 hours prior to testing.

Criteria for passing the test: For combination packagings, there is no damage to the outer packaging likely to adversely affect safety during transport, and there is no leakage of the filling substance from the inner packaging. The package/product is dropped from 1.2 meter.

Results:

<table>
<thead>
<tr>
<th>TEST with Photo</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample #1 is impacted flat on the #3 face.</td>
<td>No breakage/leakage</td>
</tr>
<tr>
<td>Sample #2 is impacted flat on the #1 face.</td>
<td>No breakage/leakage</td>
</tr>
<tr>
<td>Sample #3 is impacted flat on the #2 face.</td>
<td>No breakage/leakage</td>
</tr>
<tr>
<td>Sample #4 is impacted flat on the #5 face.</td>
<td>No breakage/leakage</td>
</tr>
<tr>
<td>Sample #5 is impacted diagonally on the #1-2-5 corner. (top manufactures joint corner sustained major crushing)</td>
<td>No breakage/leakage</td>
</tr>
</tbody>
</table>

After the completion of the drop test samples #1 thru #5 were placed on their sides and observed for any leakage, each were then opened and inspected, samples #1 thru #5 sustained minor damage to the inner containers, sample #5 sustained major deformation on the 1-2-5 corner.
### Stacking Test

**Guidelines:** Code of Federal Regulations 49, Section 178.606, UN 6.1.5.6; ASTM 4919 (10.1)

**Methods:** Three test containers are subjected to a force applied to the top surface equal to the total weight of identical packages stacked on it in transit. The minimum height of the stack is 3-meters. Three (3) filled containers are closed as for shipment and subjected to a static compression load of **427.5 kg**, equivalent to a 3-meter high stack of identical packages, continuously for 24 hours. Packaging submitted were conditioned at +23°C and 50% RH 24 hours prior to testing.

Free Standing [X]  
Guided Load [ ]

**Criteria for passing the test:** No test sample may leak. No sample may show any deterioration, which would adversely affect transportation safety or any distortion likely to reduce its strength or cause instability in stacks of packages. The following details the compressive load applied in the stacking test:

\[
\text{Stacking height} = \text{SH} = (3 \text{ meter} = 3000\text{mm})  
\text{Height of Package} = \text{PH} (\text{mm})  
\text{Number of Packages} = n  
\text{Maximum gross weight of the package} = \text{MGW} (\text{kg})
\]

\[
\text{Stacking Load} = [(\text{SH}/\text{PH}) = n -1] \times \text{MGW}
\]

\[
[(3000\text{mm}/180\text{mm}) = 16.66 - 1] \times 15.66 \times 27.3 \text{ kg} = 427.5 \text{ kg} \text{ (942.4 lbs)}
\]

**TEST:** Samples #6 - #8 are subjected to an actual top load of 430.9 kg

**RESULTS:** After completion of the stack test samples #6 thru #8 were placed on their sides and observed for any leakage, each were then opened and inspected, each sample, after completion has shown 15mm ±2 compression after 24 hours.  
**NOTE:** Stacking stability was not assessed since a guided load test was not performed.

穃穃 Stack Test(sample photo)

![Stack Test(sample photo)](image_url)

Actual top load of 430.9 kg (950.0 lbs)
Guidelines: Code of Federal Regulations 49, Section 178.608. ASTM D4919 (11.1)

Methods: Three packages are filled and closed as for shipment. Testing is performed for 1 hour at a frequency that causes the package to be raised from the vibrating platform 1.6 mm. The packages are left free to move vertically, bounce and rotate in their normal shipping orientation. Packagings submitted were conditioned at +23°C and 50% RH 24 hours prior to testing.

Rotary Vibration Table   X   
Vertical Linier Vibration Table ______

Immediately following the test, each package must be removed from the platform, turned on its side and observed for any evidence of leakage.

Criteria for Passing the Test: A packaging passes the Vibration Standard if there is no rupture or leakage from any of the packages. No test sample should show any deterioration, which could adversely affect transportation safety, or any distortion liable to reduce packaging strength.

TEST: Samples #9 - #11 are vibrated for 1 hour at 200 CPM (cycles per minute)

RESULTS: No damage/leakage, each sample was opened and inspected after completion, inner packagings were intact, outer packaging did show minor scuffing on the bottom panel, inner packagings sustained no damage, outer packaging closure was intact.
Conclusions

The packages were tested according to Paragraphs 6.1.5.3, 6.1.5.6 and 6.1.4.12.1 of the Recommendations of the United Nations Committee of Experts on the Transport of Dangerous Goods, Chapter 6, 12th Revision and 49CFR Section 178.608 for Group II products.

The package met the test requirements and it is recommended that a UN certificate be issued with the mark Y, to wit:

\[
\text{UN} \quad 4G / Y 27.3 / S / * \\
\text{USA/+CA2034}
\]

where: 4G is the packaging type code
Y is the packing group
27.3 is the gross mass in kg
S is for combination packaging
* year of manufacture
USA is the country of testing
+CA2034 is test number of certifying agency

The use of other packaging methods or components may render this report invalid.

<table>
<thead>
<tr>
<th>HPTS ID No</th>
<th>Equipment</th>
<th>Manufacturer</th>
<th>Model No.</th>
<th>Calibration Date</th>
<th>Calibration Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>1035</td>
<td>TAPPI Room</td>
<td>Horizon PTS</td>
<td>CH 1</td>
<td>N/A</td>
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<tr>
<td>1001</td>
<td>Scale</td>
<td>ScoutPro</td>
<td>400 grams</td>
<td>23 Feb 2016</td>
<td>23 Feb 2017</td>
</tr>
<tr>
<td>1039</td>
<td>Scale</td>
<td>ScoutPro</td>
<td>400 grams</td>
<td>23 Feb 2016</td>
<td>23 Feb 2017</td>
</tr>
<tr>
<td>1010</td>
<td>Temperature/RH Meter</td>
<td>Omega</td>
<td>HH314A</td>
<td>03 Mar 2015</td>
<td>03 Mar 2016</td>
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<tr>
<td>1003</td>
<td>Shipping Scale</td>
<td>CAS PB</td>
<td>300 lb capacity</td>
<td>23 Feb 2016</td>
<td>23 Feb 2017</td>
</tr>
<tr>
<td>1002</td>
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<td>CAS SW</td>
<td>20 lb Capacity</td>
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<td>23 Feb 2017</td>
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<tr>
<td>1064</td>
<td>English Ruler</td>
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<td>AE144</td>
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<tr>
<td>1013</td>
<td>Metric Ruler</td>
<td>Johnson</td>
<td>M391</td>
<td>Verify</td>
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<tr>
<td>1076</td>
<td>Digital Caliper</td>
<td>Fowler</td>
<td>54-100-712</td>
<td>22 Feb 2016</td>
<td>22 Feb 2017</td>
</tr>
<tr>
<td>1030</td>
<td>33-Ft Tape Measure</td>
<td>Master Mechanic</td>
<td>33-Ft</td>
<td>Verify</td>
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</tr>
<tr>
<td>1036</td>
<td>Cobb Sizer</td>
<td>Gurly Precision Instruments</td>
<td>4.25 inch</td>
<td>N/A</td>
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<tr>
<td>1037</td>
<td>Cobb Sizer</td>
<td>Gurly Precision Instruments</td>
<td>4.25 inch</td>
<td>N/A</td>
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<tr>
<td>1038</td>
<td>Cobb Roller</td>
<td>Gurly Precision Instruments</td>
<td>4.25 inch</td>
<td>N/A</td>
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<tr>
<td>1017</td>
<td>Drop Tower</td>
<td>Lansmont</td>
<td>PDT56ED</td>
<td>N/A</td>
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<tr>
<td>1044</td>
<td>Weight Stands</td>
<td>Lansmont</td>
<td>125</td>
<td>Verify</td>
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<tr>
<td>1018</td>
<td>Transport Simulator</td>
<td>Gaynes</td>
<td>RPM 300</td>
<td>Verify</td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX A

Inner Packaging

Two (2) heat sealed Static Shield Bags containing a corrugated single wall tray, nesting a Kim Pack sheet, a Packaging Pad with 25-die-cut holes and a Kim Pack sheet placed on top of the packaging Pad.

Product Information: Packing Group II Solid

INNER PACKAGING:

Static Shield Bag
Supplier: Specialty Bags Corporation (972-446-2247)
1746 Crosby Road
Carrollton, TX 75006
Texas Technology Inc. (512-267-0100)
3600 West Whitestone Blvd.
Cedar Park, TX 78613

Item: 101215637
Specification: MIL-B-81705C Type 1, Class I
Tare Weight: 58.3 grams
Size (mm, OD): 457.2 X 609.6 (W x L)
Size (in, OD): 18.0 X 24.0 (W x L)
Material Caliper: 3-mil
Closure: Heat Sealed, both sides and one (1) end
Count: Two (2) per RSC shipper

a) Packing Pad
Manufacturer: Southern Missouri Containers (800-999-7666)
900 N. Belcrest Avenue
Springfield, MO 65802

Item: 101687011
Style: Laminated Tray, Assembled 3.375 in. MILL, 25 Slot
Cell Size: 5-Pads with 44.45mm diameter holes (1.750 inch)
1-Pad with 23.82mm diameter holes (0.938 inch)
1-Pad without cells
Tare Weight: 610.0 grams
Size (mm, OD): 444.5 X 293.6 X 38.1 (L x W x H)
Size (in, OD): 17.50 X 11.56 X 1.50 (L x W x H)
Facings: Kraft/Kraft
Count: One (1) per Static Shield Bag, two (2) per RSC shipper
b) Packing, Flat Pad

Manufacturer: Southern Missouri Containers (800-999-7666)
900 N. Belcrest Avenue
Springfield, MO 65802

Item: 1012176057, New SMC Box
Style: Flat Sheet
Tare Weight: 65.0 grams
Size (mm, OD): 282.44 X 425.45 (W x L)
Size (in, OD): 11.12 X 16.75 (W x L)
Board Grade: 125# Burst Strength
Tests to: 52 (26/23/26) lb./1000 ft²
Combined Weight of Facings
Corrugations: Vertical "C" flute
Facings: Kraft/Kraft
Material Caliper: 4.05mm (0.159 inch)
Count: Two (2) per RSC shipper
APPENDIX B

Outer Packaging

A Kraft/Kraft double wall Regular Slotted Fiberboard Container (RSC) outer packaging. Outer closure method tested with four (4) 15mm metal staples (2-staples on each side of center), top flap seam and bottom flap seam.

OUTER PACKAGING:

- UN code: 4G
- Manufacturer: Age Industries LTD (817-645-8790)
  3601 CR 316C
  Cleburne, TX 76031
- Item: CTN-102358399
- Tare Weight: 620.0 grams
- Style: Regular Slotted Container (RSC)
- Size (mm, OD): 460 X 312 X 180 (L x W x H)
- Size (in, ID): 18.0 X 12.0 X 6.0 (L x W x H)
- Board Grade: BMC: 48 ECT, 35L-23M-31L-23M-35L
  With a 40E coating on the inside liner
  Tests to: 104 (36/22/32/24/36) lb./1000 ft²
  Combined Weight of Facings
- Corrugations: Vertical "B-C" flute
- Facings: Kraft/Kraft
- Material Caliper: 6.33mm (0.249 inch)
- Flaps:
  Minor = 155mm gap, top and bottom panel
  Major = meets, top and bottom panel
- Mfr’s Joint: Glued outside corner, 38mm tab (1+1/2 inch)
- Printing: None
- Closure: Metal Staples
- Supplier: Uline (800-958-5463)
  8900 N. 55th Street
  Milwaukee, WI 53223
- Part No.: 5/8-inch A58 Stick Staples, 5/8-inch RR1-58 Roll Staples
- Application: Four (4) 15mm metal staples (2-staples on each side of center), top flap seam and bottom flap seam.
- Method: Staples were installed by customer
**5/8" A58 Stick Staples**

Uline stocks a complete inventory of carton staples.

- Compatible with International Staple, Duofast, Salco, Beck and BEA.
- **FREE OFFER** - Order $200 worth of staples and receive a **FREE H-289 Staple Remover**.

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>SIMILAR TO</th>
<th>CROWN WIDTH</th>
<th>LEG LENGTH</th>
<th>QTY./UNIT</th>
<th>QTY./CTN.</th>
<th>LBS./CTN.</th>
<th>PRICE/CARTON</th>
<th>ADD TO CART</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-1397</td>
<td>A58</td>
<td>1 3/4&quot;</td>
<td>5/8&quot;</td>
<td>62 lbs.</td>
<td>25,000</td>
<td>52</td>
<td>$67</td>
<td>2</td>
</tr>
</tbody>
</table>

**5/8" RR1-58 Roll Staples**

Uline stocks a complete inventory of carton staples.

- Compatible with International Staple, Duofast, Salco, Beck and BEA.
- This staple is similar to RR1-58 (roll)
- **FREE OFFER** - Order $200 worth of staples and receive a **FREE H-289 Staple Remover**.

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>SIMILAR TO</th>
<th>CROWN WIDTH</th>
<th>LEG LENGTH</th>
<th>QTY./UNIT</th>
<th>QTY./CTN.</th>
<th>LBS./CTN.</th>
<th>PRICE/CARTON</th>
<th>ADD TO CART</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-860</td>
<td>RR1-58</td>
<td>1 1/4&quot;</td>
<td>5/8&quot;</td>
<td>1,100</td>
<td>24,000</td>
<td>40</td>
<td>$98</td>
<td>2</td>
</tr>
</tbody>
</table>
## Specification
### Age Industries

**Customer:** MPI (MASTER PACKAGING, INC.)  
6717 EAST 13TH STREET  
TULSA, 74112

**Specification #:** 58096  
**Date:** 06/29/16  
**Entered by:** 04

**Item Code:** CTN-102358399R  
**Item Desc:** 17.75 MX 11.75 X 5.75

<table>
<thead>
<tr>
<th>STYLE</th>
<th>SIZE</th>
<th>BOARD / ADDERS</th>
<th>TEST / FLUTE</th>
<th>REGULAR SLOTTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSC</td>
<td>17 3/4 x 11 3/4 x 5 3/4</td>
<td>KRAFT 40E INSIDE</td>
<td>48ECT DW</td>
<td>BLANK SQ.FT. 7.970595</td>
</tr>
</tbody>
</table>

- **KRAFT 40E INSIDE**
- **48ECT DW**
- **BLANK SQ.FT.** 7.970595

**Number of Colors**
- **COLOR: 90 Black**
- **COLOR: 74 Red**
- **COLOR: 151 ORANGE**

**Print Card #**

**Location**

**Special Instructions:** UN CERTIFIED

**Instructions:** 35/23/31/23/33

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**A: 6 1/8 x 6 3/8 x 6 1/8**  
**A CUM: 6 1/8 x 12.12 x 10 5/8**  
**B: B: 12 x 18 1/16 x 12 1/16 x 18 x 1 1/2**  
**B CUM: 12 x 30 1/16 x 42.18 x 60 1/8 x 61 5/8**

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**Diagram Area:**

- **6 1/8**
- **10 1/16**
- **13 1/16**
- **16**
- **61 5/8**
- **1 1/2**

**Operation # Out**

**Sheet Size**

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**Cert. #:** #+CA2034

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**June 29, 2016**

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