# Health Product Declaration<sup>™</sup> (HPD)

Acrovyn<sup>®</sup> 4000 Cradle to Cradle Certified<sup>™</sup> Rigid Sheet and Wall Guards

C/S is committed to bringing **high quality, sustainably manufactured, specialty architectural products** to the market. Tools like the HPD and *Cradle to Cradle Certified*<sup>™</sup> Products Program enable C/S to clearly and credibly communicate product environmental and human health impacts.

- The HPD is a tool that enables manufacturers to disclose product contents and hazards in a consistent format.
- The *Cradle to Cradle Certified*<sup>™</sup> Product Standard is a rigorous multi-attribute, third-party certification designed to reward achievement in five categories. This program provides manufacturers with an **optimization** strategy for the material health of a product.

With approval from the Health Product Declaration Collaborative<sup>™</sup> and the Cradle to Cradle Products Innovation Institute, C/S developed an HPD backed by the *Cradle to Cradle Certified*<sup>™</sup> Product Standard to better disclose current optimization levels.

- Ingredient assessments per the *Cradle to Cradle*<sup>®</sup> protocol have been placed into the HPD builder to communicate our ingredients and their hazard evaluation disclosed at 100 ppm (0.01%).
- Models covered by this HPD can contribute to the LEED<sup>®</sup> v4 Materials and Resources Credit, Option 1 building product disclosure and Option 2 optimization.
- The information provided in this HPD is based on multiple products. To view specific material ingredient percentages and additional *Cradle* to *Cradle*<sup>®</sup> details for these products, visit http://transparency.c-sgroup.com.
  - Rigid Sheet: WC-40N, WC-60N, WC-75N, RS-40AN, RS-60AN, TFC-40AN, TFCH-40AN, TFC-60AN, and TFCH-60AN
  - Corner Guards: FS-10MN, FS-10N, FS-20N, SFS-20N, SM-10N, SM-20AN, SM-20MN, SM-20N, SSM-10N, SSM-20AN, and SSM-20N
  - Crash Rails: BCR-40N, BCR-48N, BCR-50N, BCR-64N, BCR-80N, BG-10N, BG-30N, BL-100AN, BL-200AN, ECR-40N, ECR-48N, ECR-64N, FR-125N, FR-270N, SCR-40N, SCR-48NN, SCR-50MN, SCR-50NN, SCR-64MN, SCR-80MN, and SCR-80N
  - · Handrails: HRB-20CMN, HRB-20N, HRB-35CMN, and HRB-35N

Selecting healthy and optimized products is our industry's opportunity **to enhance the lives of future generations by making buildings better today**.

Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute.



# **Construction Specialties**<sup>®</sup>

Acrovyn<sup>®</sup> Wall Protection Division 347 South Broad Street Hughesville, Pennsylvania 17737 1.855.427.4844 www.c-sgroup.com

v01.15

| Name                                   | Acrovyn® 4000 Cradle t<br>Wall Guards   | o Cradle Certifi   | ed(TM) Rigid Sheet and  | 1.0                           |
|--|---|--|---|-------------------------------|
| Product ID<br>Website                  | Wall Protection www.c-sgroup.com/acrovyn/wall-prot  | Classification   | 10 26 00.00 Specialties: Wall and Door Protection                               | Health Product<br>DECLARATION |
| Manufacturer<br>Address                | Construction Specialties, Inc.<br>347 South Broad Street<br>Hughesville, PA 17737                                   | Contact Name<br>Title<br>Phone<br>Email                                      | Kendra Martz<br>Sustainability Coordinator<br>5709401331<br>kmartz@c-sgroup.com |                               |
| Description                            | Wall Protection – Rigid Sheet, Corne  | er Guards, Crash Rails a   | and Handrails   |                               |
| Release Date<br>Expiry Date<br>HPD URL | 2015-01-08<br>2018-01-08<br>https://tool.hpdcollaborative.org/upl<br>oads/files/hpds/58/2024-<br>20150108093754.pdf | <ul> <li>Self-declared</li> <li>Second Party</li> <li>Third Party</li> </ul> | Certifier<br>Certificate #  |                               |
|  |   |  |   |                               |

### SUMMARY DISCLOSURE

 $\square$  Predicted by process chemistry

| The content of this product was assessed for hea | alth hazard warnings as required using Pharos |                  |    |
|--|---|------------------|----|
| Residuals Disclosure                             | Full Disclosure of Intentional Ingredients    | □ <sub>Yes</sub> | No |
| Measured 100 ppm (ideal)                         | Full Disclosure of Known Hazards              | □ Yes            | No |
| Measured 1000 ppm                                | Disclosure Notes                              |                  |    |

- □ As per MSDS (1,000 & 10,000 ppm)□ Not disclosed
- □ Other

#### Contents in Descending Order of Quantity

ALUMINUM, Polyethylene Terephthalate Glycol (PETG), ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER, Polyethylene Terephthalate Glycol (PETG), Undisclosed (Proprietary Additive), Undisclosed (Colorant), NYLON 6, Undisclosed (Primer), Undisclosed (Top Coating), Undisclosed (Ink)

| Hazards<br>PBT (Persistent<br>Bioaccumulative<br>Toxic)<br>Cancer<br>Gene Mutation | <ul> <li>Development</li> <li>Reproductive</li> <li>Endocrine</li> <li>Respiratory</li> </ul> | Highest concern Gree<br>Neurotoxicity<br>Mammal<br>Skin or Eye<br>Aquatic toxicity | Arrow Content of the second seco | anslator Possible Benchmark 1<br>Multiple<br>Unknown |
|--|---|--|---|--|
| Total VOC Content<br>Material (g/L)<br>Regulatory (g/L)<br>Notes                   | N/A<br>N/A  | Does the product con<br>Are there VOC-free tir                                     | •   | ■ N/A □ Yes □ No<br>■ N/A □ Yes □ No                 |
| Certifications + Comp<br>VOC Emissions<br>Multi-attribute                          | CHPS/Section 01350 E<br>Claim   | mission Manufacturer   | VOC Content<br>Multi-attribute  | N/A<br>MBDC Cradle to Cradle - Gold (Version 2.1.1)  |

The HPD Standard is solely a declaration of product content and direct health hazards associated with exposure to its individual contents. It is not a full assessment of environmental impacts from the life cycle of this product. It is not an assessment of risks associated with actual use of the product. It does not address the potential health impacts of substances used or created during manufacture that do not appear in the final product as residuals, nor substances created during combustion or other degradation processes.

This Health Product Declaration was generated following the requirements of the noted Standard version and is valid for a total of three years after date of issue or three months after a substantive change of product contents occurs. Users should verify that this Health Product Declaration is compliant with the most current version of the HPD Standard. Accuracy of claims made in this Health Product Declaration is the sole responsibility of the listed manufacturer and certifier (if applicable). The HPD Collaborative does not warrant any claim made herein, explicit or implicit. The HPD Standard is an "open standard" developed and managed by the HPD Collaborative, a nonprofit organization. For more information, visit hpdcollaborative.org.

## CONTENT IN DESCENDING ORDER OF QUANTITY

All ingredients must be assessed for health warnings against Priority Hazard Lists, regardless of disclosure level.

Priority Hazard Lists and information on the GreenScreen Benchmarks can be found at www.hpdcollaborative.org/hazardlists.

GS: GreenScreen Benchmark; RC: Recycled Content, PC: Post Consumer, PI: Post Industrial (Pre-consumer), BO: Both; Nano: comprised of nanoscale particles or nanotechnology

| Name        | CAS RN        | %<br>weight | GS        | RC       | Nano      | Role                     |  |
|-------------|---------------|-------------|-----------|----------|-----------|--------------------------|--|
| Hazard A    | Warning A     |             |           |          |           |                          |  |
| Hazard B    | Warning B     |             |           |          |           |                          |  |
| Hazard C    | Warning C     | Warning C   |           |          |           |                          |  |
| Hazard D    | Warning D     |             |           |          |           |                          |  |
| Hazard E    | Warning E     |             |           |          |           |                          |  |
| Notes       |               |             |           |          |           |                          |  |
| ALUMINUM    | 7429-90-<br>5 | 64 %        | LT-<br>P1 | N        | N         | Retainer                 |  |
| ENDOCRINE   | TEDX: Pote    | ential Endo | crine Dis | ruptor   |           |                          |  |
| RESPIRATORY | AOEC: Ast     | hmagen (Al  | Rs) - ser | nsitizei | r-induced | 1 - inhalable forms only |  |
| FLAMMABLE   | EU H-State    | ments: H22  | 28 Flamr  | nable    | solid     |                          |  |
| REACTIVE    | EU H-State    | ments: H26  | 61 In cor | ntact w  | ith water | releases flammable gases |  |

Aluminum assessed YELLOW under Cradle to Cradle® Protocol as Acceptable (one or more moderate risks to human health and/or environmental health; suitable for continued use until a GREEN alternative is found). Aluminum ranges from 0.00-89.00% of unit weight depending on model and role(s) – retainer, base, aluminum clips/splice retainer, or aluminum bracket. Recycled content also varies by model. Contact C/S factory for details.

| Polyethylene Terephthalate Glycol (PETG) | 25640-<br>14-6 | 24 %         |         | Ν         | Ν   | Cover/Sheet and Regrind Bumper |
|--|----------------|--------------|---------|-----------|-----|--------------------------------|
| None found                               | No warning     | s found on I | HPD Pri | ority lis | sts |                                |

PETG assessed GREEN under Cradle to Cradle® Protocol as Preferred (little to no risk to human health and/or environmental health). PETG ranges 8.00-100.00% of unit weight depending on model and manufacturing variables. This ingredient may serve the role(s) – cover/sheet, regrind bumper, cover splice, or gasket. Contact C/S factory for details.

| ACRYLONITRILE-BUTADIENE-STYRENE<br>COPOLYMER | 9003-56-<br>9 | 5 %        | LT-U    | Ν         | N   | End Caps and Brackets |
|--|---------------|------------|---------|-----------|-----|-----------------------|
| None found                                   | No warning    | s found on | HPD Pri | ority lis | sts |                       |

Acrylonitrile-Butadiene-Styrene Copolymer assessed YELLOW under Cradle to Cradle® Protocol as Acceptable (one or more moderate risks to human health and/or environmental health; suitable for continued use until a GREEN alternative is found). ABS ranges 0.00-21.00% of unit weight depending on model and manufacturing variables. This ingredient may serve the role(s) – end cap, brackets, splice bar, or cushions.

| Polyethylene Terephthalate Glycol (PETG)   | 25640-<br>14-6   | 3.61 %  |  | N   | Ν   | Decorative Film Base Resin   |
|--|--|---|--|---|---|--|
| None found   | No warning   | s found on  | HPD Prie   | ority li  | sts   |  |
| Film base resin assessed GREEN under Cradle to<br>ingredient only covers the standard 24 Chameleor<br>model and manufacturing variables. This range sta  | n pattern offe   | rings. PETC   | G film ba  | se res  | in range  |  |
| Undisclosed (Proprietary Additive)   | Unknown  | 1.32 %  |  | N   | Ν   | Flame Retardant - PETG Cover/Sheet and Regrind Bumper  |
| Unknown  | Not disclose   | ed  |  |   |   |  |
| · · · · · · · · · · · · · · · · · · ·  | YELLOW un<br>ntinued use   | der Cradle t  | to Cradle  | ® Pro   | otocol as   | MBDC (an accredited assessor for the Cradle to Cradle<br>Acceptable (one or more moderate risks to human<br>I). Additive ranges 0.00- 8.40% of unit weight   |
| Undisclosed (Colorant)   | Unknown  | 1.06 %  |  | Ν   | N   | Colorant - PETG Cover/Sheet  |
| Unknown  | Not disclose   | ed  |  |   |   |  |
| Colorants for 15 Cradle to Cradle Certified(TM) Silv<br>Cradle® Protocol as Problematic (one or more sign  | ver solid colo<br>nificant risks<br>ative is found<br>iew standard<br>%20Solid%2           | r offerings a<br>to human a<br>). Colorant r<br>solid color<br>0Colors Vie                                  | and 24 C<br>ind/or en<br>anges 0<br>offerings<br>ew standa               | hame<br>vironr<br>.00-12<br>and (<br>ard Cl             | leon path<br>mental he<br>2.00% of<br>Cradle to<br>hameleo              | n pattern offerings at http://www.c-   |
| NYLON 6  | 25038-<br>54-4   | 1 %   | LT-U   | N   | Ν   | Bracket Hardware   |
| None found   | No warning   | s found on  | HPD Prie   | ority li  | sts   |  |
|  | ivironmental   | health; suita   | able for c   | contin  | ued use   | / under Cradle to Cradle® Protocol as Acceptable (one<br>until a GREEN alternative is found). Nylon 6 ranges<br>applicable to Acrovyn 4000 sheet and some wall   |
| Undisclosed (Primer)   | Unknown  | 0 %   |  | N   | N   | Decorative Film Primer   |
| Unknown  | Not disclos  | ed  |  |   |   |  |
| for 4 of the standard Chameleon pattern offerings<br>human and/or environmental health, should be ph<br>Film primers for the remaining 2 standard Chamel<br>ingredient data is not complete or evaluation data | onmental he<br>assessed RE<br>ased out as<br>eon pattern o<br>is not availab<br>d 24 Chame | alth; suitabl<br>D under the<br>quickly as p<br>offerings associated on the<br>le for one o<br>leon pattern | e for con<br>e Cradle<br>oossible;<br>sessed G<br>r more c<br>o offering | tinue<br>to Cra<br>suitat<br>GRAY<br>riteria<br>s. Filn | d use un<br>adle® Pr<br>ole for co<br>under th<br>. Data sh<br>n primer | til a GREEN alternative is found). Film primers used<br>otocol as Problematic (one or more significant risks to<br>ntinued use until a YELLOW alternative is found).<br>The Cradle to Cradle® Protocol as Incomplete (either<br>nould be completed or ingredient should be phased<br>ranges 0.00-0.003% of weight depending on model |
| Undisclosed (Top Coating)  | Unknown  | 0 %   |  | N   | N   | Decorative Film Top Coating  |
| Unknown  | Not disclose   |   |  | _   |   |  |
| Film top coating assessed RED under the Cradle health, should be phased out as quickly as possib   | to Cradle® P<br>le; suitable fo<br>ating ranges  | rotocol as F<br>or continued<br>0.00-0.0349   | d use unt<br>% of the  | til a YI<br>unit w                                      | ELLOW<br>/eight de  | re significant risks to human and/or environmental<br>alternative is found). This ingredient only covers the<br>pending on model and color requirements. This range  |

Film inks assessed RED under the Cradle to Cradle® Protocol as Problematic (one or more significant risks to human and/or environmental health, should be phased out as quickly as possible; suitable for continued use until a YELLOW alternative is found). This ingredient only covers the standard 24 Chameleon pattern offerings. Ink ranges .000-.031% of the unit weight depending on model and color requirements. This range starts at 0 since this ingredient is not applicable to solid colored Acrovyn 4000 products.

#### CERTIFICATIONS AND COMPLIANCE

**Certifying Party** = First: Manufacturer's self-declaration; Second: Verification by trade association or other interested party; Third: Verification by independent certifier (ideal).

Applicable facilities = Manufacturing sites to which testing applies.

| Туре                | Standard or Certific   | ation  |  | Certifier or Laboratory   |
|---------------------|--|--|--|---|
|                     | Certifying Party   | lssue<br>Date  | Expiry<br>Date   | Certificate URL   |
|                     | Applicable Faciliti  | es   |  |   |
|                     | Notes  |  |  |   |
| VOC                 | CHPS/Section 01350   | ) Emissic  | n  | manufacturer self certified   |
| Emissions           | Manufacturer Claim   |  |  |   |
|                     | 1st party<br>manufacturer<br>claim   | 2009-<br>10-05   |  | www.c-sgroup.com/files/tech-center/acrovyn/data_sheets/pdf/Acrovyn_4000_California_01350.pdf  |
|                     | US Production  |  |  |   |
|                     |  |  |  | EHLB/R-174, 2004. Currently pursuing first-party certification per CDPH Standard Method for the<br>anic Chemical Emissions from Indoor Sources using Environmental Chambers v1.1 (ANSI/BIFMA  |
| VOC                 | N/A  |  |  |   |
| Content             |  |  |  |   |
|                     |  |  |  |   |
|                     |  |  |  |   |
|                     |  |  |  |   |
| Recycled<br>Content | Not tested   |  |  |   |
|                     |  |  |  |   |
|                     |  |  |  |   |
|                     |  |  |  |   |
| Multi-<br>attribute | MBDC Cradle to Crad<br>(Version 2.1.1)   | lle - Silve  | er   | McDonough Braungart Design Chemistry (MBDC)   |
|                     | 3rd party<br>independent<br>certification  | 2014-<br>05-11   | 2015-<br>05-10   | www.c-sgroup.com/files/literature/c2c-cert-silver-acrovyn-profile-sheet-film.pdf  |
|                     | United States Facili   | ties   |  |   |
|                     | 15 certified silver sc<br>Red, 521 Spanish M<br>Olive Grove, and 31<br>Northern Oak, 375<br>Birch, 386 Hondura | lid colors<br>Moss, 52<br>8 Berry<br>Autumn<br>s Mahog | . Acrovyn<br>2 Savanna<br>Red. Acro<br>Maple, 37<br>any, 383 | nd wall guards in all 23 Cradle to Cradle Certified(TM) Silver Chameleon pattern decorative films and solid colors: 313 Vanilla, 253 Parchment, 519 Buttercream, 106 Brown, 320 Brick, 326 Rustic ah, 853 Ocean Gray, 319 Saybrook Sage, 957 Bluestone, 129 Yale Blue, 520 Imperial Purple, 696 vyn Chameleon(TM) patterns: 381 Figured Anigre, 372 Classic Maple, 377 American Beech, 376 3 Amber Cherry, 385 Royal Oak, 701 Ginger Root, 704 Brazilian Nut, 399 Cherry, 379 Honey Vintage Walnut, 382 Cocoa Maple, 374 Regal Mahogany, 380 Shaker Cherry, 378 Brushed Nickel, erry, 342 Burnt Sugar, 656 Sunlight Maple, 654 Urbanwood, 658 Concrete, and 653 Ebony |

| Multi-<br>attribute   | MBDC Cradle to C<br>(Version 2.1.1)   | radle - Gold  |   | McDonough Braungart Design Che  | mistry (MBDC)   |  |  |  |  |
|---|---|---|---|---|---|--|--|--|--|
|   | 3rd party<br>independent<br>certification   |   | 2015-<br>05-10  |   | s/tech-center/acrovyn/data_sheets/pdf/Acrovyn_4000_Wall_Protection<br>_Cradle_to_Cradle_Certified_CM_Gold_Certificate.pdf   |  |  |  |  |
|   | United States Fa  | cilities  |   |   |   |  |  |  |  |
|   | White, 933 Missi<br>Almond, 102 Des<br>Doeskin, 479 Ca<br>Sienna, 316 Che<br>Green, 323 Sere  | on White, 93<br>sert Sand, 25<br>ppuccino, 48<br>stnut, 322 Po<br>ne Green, 22  | 4 Pearl,<br>4 Whea<br>0 Toffee<br>eanut Br<br>3 Danul | 100 Eggshell, 858 Pumice, 517 Teto<br>t, 997 Irish Cream, 186 Champagne,<br>, 303 Carmel, 929 Oyster Gray, 187<br>ittle, 194 Chinchilla, 209 Slate, 317 k<br>be, 325 Cape Blue, 930 Blue Silk, 84 | Certified(TM) Gold solid colors. Acrovyn solid colors: 949<br>on White, 310 Yosemite Sand, 101 French Cream, 920<br>305 Mushroom, 196 Fawn, 103 Beige, 198 Beige Desert, 860<br>Tan Bark, 513 Khaki Brown, 105 Mocha, 193 Gingerspice, 307<br>Kona, 321 Russet, 311 Celery, 324 Underseas, 660 Sage<br>8 Aspen, 309 Tranquil Blue, 927 Folkstone, 265 Fog, 262<br>108 Black, 984 Garden Sprout, 874 Riverbed, and 405 |  |  |  |  |
| his section<br>oatings) or  | for maintenance, clea   | aning, or ope   | rations. I  |   | cturer for installation (such as adhesives, fasteners, or factory published separately, for a complete view of these products.  |  |  |  |  |
| Required  | or Recommended P  | roduct  |   |   | URL for Companion Health Product Declaration  |  |  |  |  |
| Condition   | when required or re   | ecommende   | d and/o   | r other notes   |   |  |  |  |  |
| Acrovyn W   | /all Covering Trims   |   |   |   |   |  |  |  |  |
| As require  | d for preferred installa  | tion for rigid  | sheet. A  | vailable for models: .040 WCN and .0  | 060 WCN.  |  |  |  |  |
| Mounting  | Hardware  |   |   |   |   |  |  |  |  |
|   | for warranted installation  | ons of profile  | 6.  |   |   |  |  |  |  |
| Required  |   |   |   |   |   |  |  |  |  |
| ·   | Crash Rail and Handra   | il Accent Rev   | veals   |   |   |  |  |  |  |
| Optional C<br>As require  |   | tion of Crash   | Rail and  |   | R50N, BCR80N, HRB20CMN, HRB20N, HRB35CMN,   |  |  |  |  |
| Optional C<br>As require<br>HRB35N,   | d for preferred installa  | tion of Crash<br>SCR50N, SC   | Rail and<br>R80MN                                     | , and SCR80N.   | R50N, BCR80N, HRB20CMN, HRB20N, HRB35CMN,   |  |  |  |  |
| Optional C<br>As require<br>HRB35N,<br>COLORFL  | d for preferred installa<br>HRO6C, SCR50MN, s   | tion of Crash<br>SCR50N, SC   | Rail and<br>R80MN<br>aulk (VO                         | , and SCR80N.   | R50N, BCR80N, HRB20CMN, HRB20N, HRB35CMN,   |  |  |  |  |
| Optional C<br>As require<br>HRB35N,<br>COLORFI<br>As require  | d for preferred installa<br>HRO6C, SCR50MN, S<br>.EX II CF9001 - Color  | tion of Crash<br>SCR50N, SC<br>Matching Ca<br>tion of rigid s   | Rail and<br>R80MN<br>aulk (VO<br>heet.                | , and SCR80N.<br>C 20.00 g/L)   | R50N, BCR80N, HRB20CMN, HRB20N, HRB35CMN,   |  |  |  |  |
| Optional C<br>As require<br>HRB35N,<br>COLORFL<br>As require<br>Acrovyn Ir  | d for preferred installa<br>HRO6C, SCR50MN,<br>EX II CF9001 - Color<br>d for preferred installa   | tion of Crash<br>SCR50N, SC<br>Matching Ca<br>tion of rigid s<br>Mastic Prime   | Rail and<br>R80MN<br>aulk (VO<br>heet.                | , and SCR80N.<br>C 20.00 g/L)<br>0.00 g/L)  | R50N, BCR80N, HRB20CMN, HRB20N, HRB35CMN,   |  |  |  |  |
| Optional C<br>As require<br>HRB35N,<br>COLORFL<br>As require<br>Acrovyn Ir<br>Used for ir                             | d for preferred installa<br>HRO6C, SCR50MN,<br>LEX II CF9001 - Color<br>d for preferred installa<br>nteriors Water-Based N                              | tion of Crash<br>SCR50N, SC<br>Matching Ca<br>tion of rigid s<br>Mastic Prime   | Rail and<br>R80MN<br>aulk (VO<br>heet.                | , and SCR80N.<br>C 20.00 g/L)<br>0.00 g/L)  | R50N, BCR80N, HRB20CMN, HRB20N, HRB35CMN,   |  |  |  |  |
| Optional C<br>As require<br>HRB35N,<br>COLORFL<br>As require<br>Acrovyn Ir<br>Used for ir<br>Acrovyn Ir               | d for preferred installa<br>HRO6C, SCR50MN,<br>LEX II CF9001 - Color<br>d for preferred installa<br>nteriors Water-Based N                              | tion of Crash<br>SCR50N, SC<br>Matching Ca<br>tion of rigid s<br>Mastic Prime<br>et as required<br>ater Based M                   | Rail and<br>R80MN<br>aulk (VO<br>heet.                | , and SCR80N.<br>C 20.00 g/L)<br>0.00 g/L)<br>conditions.   | R50N, BCR80N, HRB20CMN, HRB20N, HRB35CMN,   |  |  |  |  |
| Optional C<br>As require<br>HRB35N,<br>COLORFL<br>As require<br>Acrovyn Ir<br>Used for ir<br>Acrovyn Ir<br>Required f | d for preferred installa<br>HRO6C, SCR50MN,<br>LEX II CF9001 - Color<br>d for preferred installa<br>nteriors Water-Based M<br>nstallation of rigid shee | tion of Crash<br>SCR50N, SC<br>Matching Ca<br>tion of rigid s<br>Mastic Prime<br>et as required<br>ater Based M<br>ons of rigid s | Rail and<br>R80MN<br>aulk (VO<br>heet.                | , and SCR80N.<br>C 20.00 g/L)<br>0.00 g/L)<br>conditions.   | R50N, BCR80N, HRB20CMN, HRB20N, HRB35CMN,   |  |  |  |  |

NOTES

HPD percentages reflect the ingredients of Construction Specialties' Handrail with ABS Quick Lock Bracket model HRB-20N in 386 Honduras Mahogany. This specific model is Cradle to Cradle Certified<sup>™</sup> Silver (v2.1.1). To see ranges for all colors and models, refer to the comments of each corresponding - material ingredient. Visit http://transparency.c-sgroup.com to see more specific material ingredients percentages for other Cradle to Cradle CertifiedTM Gold and Silver Acrovyn® 4000 Wall Protection models.

- Rigid Sheet: WC-40N, WC-60N, WC-75N, RS-40AN, RS-60AN, TFC-40AN, TFCH-40AN, TFC-60AN, and TFCH-60AN

- Corner Guards: FS-10MN, FS-10N, FS-20N, SFS-20N, SM-10N, SM-20AN, SM-20MN, SM-20N, SSM-10N, SSM-20AN, and SSM-20N

- Crash Rails: BCR-40N, BCR-48N, BCR-50N, BCR-64N, BCR-80N, BG-10N, BG-30N, BL-100AN, BL-200AN, ECR-40N, ECR-48N, ECR-64N, FR-125N, FR-270N, SCR-40N, SCR-48NN, SCR-50NN, SCR-50NN, SCR-64MN, SCR-80NN, and SCR-80N

- Handrails: HRB-20CMN, HRB-20N, HRB-35CMN, and HRB-35N

Referenced Cradle to Cradle® assessment levels are per MBDC Material Health assessments prepared May 2014 which covers most Acrovyn 4000 rigid sheet and wall guard products in standard solid colors and Chameleon pattern decorative film.

Construction Specialties' MBDC and Cradle to Cradle® documentation is available on our Transparency Label website http://transparency.c-sgroup.com; refer to certificates and reports for Acrovyn 4000 Wall Protection.

Cradle to Cradle Certified<sup>™</sup> is a third-party sustainability label that verifies Construction Specialties' commitment to avoid products that are harmful to humans, animals, and the environment when there are reasonable alternatives. The Cradle to Cradle® design protocol calls for materials to be defined as technical or biological nutrients that are safe and healthy for humans and the environment.

C/S' Cradle to Cradle Certified<sup>™</sup> Gold and Silver Acrovyn 4000 products meet the requirements of the Living Building Challenge Materials Red List, a list of chemicals identified by the International Living Future Institute as ones that should be phased out of production due to health concerns.

These products can also contribute to LEED® v4 Materials and Resources Credit, Option 1 building product disclosure and Option 2 optimization. These credits were added to LEED v4 to improve environmental and health performance of building material selections through transparency.

C/S is currently pursuing first-party certification per CDPH Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers v1.1 (ANSI/BIFMA M7.1)

Construction Specialties' products are listed on GreenWizard.

#### **Data Source Documents and Links**

- Acrovyn® Wall and Door Protection Catalog

- http://csliterature.c-sgroup.com/catalogs/acrovyn/
- Cradle to Cradle Product Innovation Institute Product Certification
- http://www.c2ccertified.org/product certification
- Statement of Compliance Living Building Challenge Red List
- http://www.c-sgroup.com/files/literature/MBDC\_Acrovyn\_Red\_List\_Letter.pdf

- GreenWizard

- http://www.greenwizard.com/
- Construction Specialties, Inc. Environmental Policy
- www.c-sgroup.com/files/literature/environmental-positioning-statement.pdf
- Acrovyn 4000 Data Sheet

www.c-sgroup.com/files/literature/acrovyn-4000-data-sheet.pdf

- Acrovyn 4000 MSDS
- www.c-sgroup.com/files/tech-center/acrovyn/msds/pdf/acrovyn\_4000\_d\_msds.pdf
- C/S Acrovyn Chameleon Collection Limited Lifetime Warranty
- www.c-sgroup.com/files/literature/acrovyn\_chameleon\_warranty.pdf
- Five Year Limited Warranty Policy
- www.c-sgroup.com/files/literature/acrovyn\_warranty.pdf
- Acrovyn Wall Protection System Care & Maintenance
- www.c-sgroup.com/files/literature/acrovyn-care.pdf