

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM



LISTING SERVICE

LISTING No. 4175-1313:0100

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CATEGORY: 4175 -- ROOF COVERING (MISCELLANEOUS)

LISTEE: NATIONAL COATINGS 1201 Calle Suerte, Camarillo, CA 93012
Contact: Shawn Collins (805) 388-7112 Fax (805) 388-8140
Email: scollins@nationalcoatings.com

DESIGN: ACRYSHIELD elastomeric roof coating. Refer to listee's data sheets for additional detailed product description and operational considerations.

References to "AcryShield" include "AcryShield A405", "AcryShield A500", "AcryShield A550" and "AcryShield A600".

One-half in. thick (min) gypsum board or 1/4 in. thick (min) G-P Gypsum DensDeck® may be used in any existing noncombustible deck Classification. When this is done, the resulting roofing system is acceptable for use over combustible (15/32 in. min) roof decks. The joints in the gypsum board and overlayment board are offset 6 in. with the joints in the deck.

35 lbs/sq of roofing granules embedded into an additional 1-1/2 gallons of "AcryShield" may be added to any of the following systems.

Any thickness isoboard may cover a metal deck under any of the following systems, without changing the Classification, as long as the spray foam has a min thickness of 1-1/2 in. The total insulation thickness (polyisocyanurate and spray foam) shall not exceed the max thickness limitation of the spray foam.

"AcryShield Basecoat" may be used for the first coat(s) in any of the following systems, as long as at least 1-1/2 gallons of "AcryShield" is applied for the topcoat.

"AcryShield" coating is suitable for use over any Siplast modified bitumen roofing system up to a maximum incline of 3/4 in.

COLD APPLICATION SYSTEMS

Class A

1. Deck: NC Incline 2

Coating and Ply Sheet: - 10 to 20 gal/sq of "Liquiseal" emulsion with 1 to 3 plies of polyester fabric embedded into emulsion.

Surfacing: - "AcryShield" 1-1/2 to 3 gal/sq.

Class A, B or C

1. Deck NC or C-15/32 Incline: See Note 1

Existing Roof System: - Any Class A, B or C, insulated or uninsulated, Type G3 mineral surfaced cap sheet BUR system.

Surfacing: - "AcryShield" applied at 2 to 5 gal/sq. May be reinforced with polyester fabric (3

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oz/sq yd max).

Note 1: Classification (A, B or C) and maximum 2-in incline for roof covering system manufacturer's insulated or non-insulated Roofing Systems (TGFU) Certification

FLUID APPLIED COATING SYSTEMS

Class A

1. Deck: NC

Incline: 2

Surfacing: - "AcryShield" applied in two or more coats, for a total of 2 to 5 gal/sq. May be reinforced with polyester fabric (3 oz/sq yd max).

2. Deck: NC

Incline: 2

Surfacing: - "AcryShield" 6 to 12 gal/sq, reinforced with polyester fabric (3 oz/sq/yd max).

3. Deck C-15/32

Incline: 2

Insulation (Optional): - Any UL Classified, any thickness, mechanically fastened.

Barrier Board: - G-P Gypsum DensDeck®, 1/4 in. thick, mechanically fastened.

Coating: - "AcryShield" 6 to 12 gal/sq, reinforced with polyester fabric (3 oz/sq/yd max).

SPRAY APPLIED FOAM AND COATING SYSTEMS

"RoofGuard" may be optionally applied over the "AcryShield" surfacing in any of the following foam and coating systems.

Any of the following Class A Spray Applied Foam Systems may be used as Maintenance and Repair Systems when applied over an existing roof system and shall maintain the existing roof classification, providing a minimum 1-1/2 in. thick foam is used and maximum incline limitations are observed.

Class A

1. Deck: NC

Incline: 1

Foam: - Polythane "PSI S200-25/30", "PSI SC200-25/30" or "PSI SH200-25/30", 3 in. max.

Surfacing: - Two coats "AcryShield" 2 to 4 gal/sq (total).

2. Deck: NC

Incline: 1

Foam: - BASF "ELASTOSPRAY 1409, 1270, 1270II, 1302, 1451, 1570, 1605, 1620 or 2001", 2 in. max.

Surfacing: - Two coats "AcryShield" 3 gal/sq (total).

3. Deck: NC

Incline: 1

Foam: - BASF "ELASTOSPRAY 1409, 1270, 1270II, 1302, 1451, 1570, 1605, 1620 or 2001", 3 in. max.

Surfacing: - Two coats "AcryShield" 2 to 5 gal/sq (total).

4. Deck: NC

Incline: 1

Foam: - BASF "Elastospray 124-2.5 or -3", 3 in. max.

Surfacing: - "AcryShield" applied in two or more coats, for a total of 2 to 5 gal/sq.

5. Deck: NC

Incline: 1

Foam: - Foam Enterprises "FE 302 Series" or "FE 303 Series" 3 in. max.

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Surfacing: - "AcryShield" applied in two or more coats, for a total of 2 to 5 gal/sq.

6. Deck: NC Incline: 3

Foam: - "Premium 241 Series", any thickness.

Surfacing: - "AcryShield" applied at a total of 2-4 gal/sq.

7. Deck: NC Incline: 3

Foam: - Premium 241 Series, any thickness.

Base Coat: - "AcryShield" 1-1/2 gal/sq.

Top Coat: - "AcryShield" 1-1/2 gal/sq.

Optional Surfacing: - No. 6 crushed limestone at 64 lbs/sq. embedded into wet top coating. "RoofGuard", 40 lb dry mix - 4-1/2 gal water and 1/2 gal RoofGuard acrylic resin with 3/4 oz "Colloid 60", applied at one sq per batch.

8. Deck: NC Incline: 1-1/2

Foam: - BASF "ELASTOSPRAY 1409, 1270, 1270II, 1302, 1451, 1570, 1605, 1620 or 2001" (2.5-3.0), 3 in. max.

Surfacing: - "AcryShield" 2-4 gal/sq.

9. Deck: NC Incline: 1

Foam: - BASF "ELASTOSPRAY 1409, 1270, 1270II, 1302, 1451, 1570, 1605, 1620 or 2001", Flexible Products "241", Polythane Inc. "SH200" or Foam Enterprises "302" or "303" (2.5-3.0), any thickness.

Base Coat: - Foam Experts "Aztec 20" at 1 to 2 gal/sq.

Top Coat: - "AcryShield" a total of 1-1/2 to 2-1/2 gal/sq.

10. Deck: NC Incline: 4-1/2

Foam: - Polythane "PSI S200-25/30", "PSI SC200-25/30" or "PSI SH200-25/30", any thickness.

Top Coat: - "AcryShield" applied at a total of 3 to 5 gal.

Surfacing: - Roofing granules, 30 lbs/sq.

11. Deck: NC Incline: 3/4

Foam: - Resin Technology "RT2030 Series", "RT2031 Series" or "RT2035 Series", 3 in. max.

Coating: - "AcryShield" applied at 2 to 5 gal/sq.

12. Deck: NC Incline: 2

Foam: - SWD Urethane "SWD 525b (2.5-3.0)", 1 to 4 in.

Coating: - Two or more coats "AcryShield" at 2 to 4 gal/sq.

Surfacing (Optional): - No. 11 roofing granules applied in wet top coat at 30 lb/sq.

13. Deck: NC Incline: Unlimited

Foam: - Flexible Products "241", any thickness.

Coating: - "AcryShield" applied at 2 to 5 gal/sq.

Surfacing: - Roofing granules, applied at 30 lbs/sq.

14. Deck: NC Incline: 3

Foam: - BASF "ELASTOSPRAY 1409, 1270, 1270II, 1302, 1451, 1570, 1605, 5100, 1620 or 2001", 2.5-3.0 lb/cu ft, any thickness.

Coating: - "AcryShield" applied at a total of 2 to 5 gal/sq.

15. Deck: NC Incline: 1-1/4

Foam: - "Stepanfoam 9700 Series", 1 in. min.

Surfacing: - "AcryShield" 2-4 gal/sq.

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- 16. Deck: NC Incline: 2**
Foam: - BASF "ELASTOSPRAY 1409, 1270, 1270II, 1302, 1451, 1570, 1605, 1620 or 2001", any thickness.
Coating: - "AcryShield" at 3 to 6 gal/sq.
Surfacing: - Granules at 35 lbs/sq.
- 17. Deck: NC Incline: 2-1/2**
Spray Polyurethane foam: - BASF Elastospray "81252", "81272", "Alpha System", "81302", "82272" or "82302", any thickness.
Base/Top Coat: - "AcryShield" at 2-5 gal/sq.
Surfacing (Optional): - Roofing granules at 30 lbs/sq.
- 18. Deck: C 15/32 Incline: Unlimited**
Spray Polyurethane foam: - BASF Elastospray "81252", "81272", "Alpha System", "81302", "82272", or "82302", 1 in. min thickness.
Base Coat: - "AcryShield" at 1-1/2 gal/sq.
Top Coat: - "AcryShield" at 1-1/2 gal/sq.
Surfacing: - No. 6 crushed limestone at 64 lbs/ sq. embedded into wet coating. Followed by a 40 lb mix of dry mix - 4-1/2 gal water and 1/2 gal of coating acrylic resin with 3/4 oz. of Colloid 60 applied at one sq per batch
- 19. Deck: NC Incline: 1-1/2**
Foam: - The Dow Chemical Co "Voracor Cy 3019", any thickness.
Base/Top Coat: - "Acryshield" at 2 to 5 gal/sq.
- 20. Deck: NC Incline: 3-1/2**
Foam: - The Dow Chemical Co "Voracor CY 3019", any thickness.
Base/Top Coat: - "Acryshield" at 2 to 5 gal/sq.
Surfacing : - Granules at 30 lbs/sq.
- 21. Deck: NC Incline: 2**
Foam: - The Dow Chemical Co "Voracor CY 3053", any thickness.
Base/Top Coat: - "AcryShield A500" at 2 to 5 gal/sq.
Surfacing : - Granules at 35 lbs/sq.
- 22. Deck: NC Incline: 3**
Foam: - Foam Enterprises "FE 346" or "FE 347", "FE348" or "FE350" any thickness.
Base/Top Coat: - "Acryshield" at 2 to 5 gal/sq.
Surfacing : - Granules at 30 lbs/sq.
- 23. Deck: NC Incline: 3**
Foam: - UCSC " SFC II 2.0-3.5", any thickness.
Base/Top Coat: - "Acryshield" at 2 to 5 gal/sq.
- 24. Deck: NC Incline: 3-1/2**
Foam: - BaySystems "SW200-25/30" or "S245-25/30", any thickness.
Base/Top Coat: - "Acryshield" at 2 to 5 gal/sq.
- 25. Deck: NC Incline: 3-1/2**
Foam: - "NC245-25/30", any thickness.
Base/Top Coat: - "Acryshield" at 2 to 5 gal/sq.

Class B

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- 1. Deck: C-15/32 Incline: 1**
Foam: - Polythane "PSI S200-25/30", "PSI SC200-25/30" or "PSI SH200-25/30", 1-1/2 min.
Surfacing: - Two coats "AcryShield" applied at a total of 3 to 5 gal/sq for two coats.
- 2. Deck: C-15/32 Incline: 1/4**
Foam: - Resin Technology "RT2031", 1 in. min.
Surfacing: - "AcryShield" applied at 3-5 gal per sq followed by 50 lbs per sq of granules.
- 3. Deck: C-15/32 Incline: 2**
Joint Treatment: - Joints blocked with 2 x 4 lumber.
Foam: - BASF "ELASTOSPRAY 1409, 1270, 1270II, 1302, 1451, 1570, 1605, 5100, 1620 or 2001", 2.5/3.0 lb/cu ft, 1-1/2 in.
Base Coat: - "AcryShield" at 1-1/2 to 2-1/2 gal/sq.
Top Coat: - "AcryShield" at 1-1/2 to 2-1/2 gal/sq.
Surfacing: - No. 11 granules, applied at 40 lbs/sq.
- 4. Deck: C-15/32 Incline: 1/2**
Joint Treatment: - All joints in deck blocked by 2 x 4 lumber.
Foam: - Flexible Products "241 2.7", 1-1/2 in. thick.
Coating: - "AcryShield" 3 to 5 gal/sq.
- 5. Deck: NC Incline: 2**
Foam: - SWD Urethane "SWD 525b (2.5 or 3.0)", 1 to 4 in.
Coating: - Two or more coats "AcryShield" at 2 to 4 gal/sq.
Surfacing (Optional): - No. 11 roofing granules applied in wet top coat at 30 lb/sq.
- 6. Deck: C-15/32 Incline: 1/2**
Joint Treatment: - All joints in deck blocked by 2 x 4 lumber.
Foam: - Flexible Products "241 2.7", 1-1/2 in. thick.
Coating: - "AcryShield" 3 to 6 gal/sq.
- 7. Deck: C-15/32 Incline: 1/2**
Foam: - BASF "Elastospray 5100", 2.5-3.0 lb/cu ft, 2 in. thick min.
Base Coat: - One application "AcryShield" applied at 1-1/2 to 2-1/2 gal/sq.
Surfacing: - One application "AcryShield" applied at 1-1/2 to 2-1/2 gal/sq.
- 8. Deck: C-15/32 Incline: 1/4**
Joint Treatment: - All joints in deck blocked by 2 x 4 lumber.
Foam: - BASF "Elastospray S-1570", 1-1/2 in. min.
Coating: - "AcryShield" at 3 to 6 gal/sq.
Surfacing: - Granules at 35 lbs/sq.
- 9. Deck: C-15/32 Incline: 1/2**
Spray Polyurethane Foam: - BASF Elastospray "81252", "81272", "Alpha System", "81302", 2" min thickness.
Base/Top Coat: - "AcryShield" at 2 - 5 gal/sq.
Surfacing(Optional): - Roofing granules at 30 lbs/sq.
- 10. Deck: C-15/32 Incline: 1/2**
Spray Polyurethane Foam: - BASF Elastospray "82272", or "82302", 1-1/2 in. min thickness.
Base/Top Coat: - "AcryShield" at 2-5 gal/sq.
Surfacing (Optional): - Roofing granules at 30 lbs/sq.
- 11. Deck: C-15/32 Incline: 1/2**

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Foam: - The Dow Chemical Co "Voracor CY 3019", 1 in. min.

Base/Top Coat: - "AcryShield" at 2 to 5 gal / sq.

Surfacing: - Granules at 30 lbs/sq.

12. Deck: C-15/32 Incline: 1/2

Foam: - Foam Enterprises "FE345", "FE 346", "FE347", FE348", or "FE350" 1 in. min.

Base/Top Coat: - "AcryShield" at 2 to 5 gal/sq.

Surfacing: - Roofing granules, 35 lbs/sq.

13. Deck: C-15/32 Incline: 1/2

Foam: - BASF "Elastospray 81284 ", 1 in. min.

Base/Top Coat: - "AcryShield" at 2 to 5 gal/sq.

Surfacing: - No. 11 roofing granules, 35 lbs/sq.

14. Deck: C-15/32 Incline: 1/2

Foam: - BaySystems "SW200-25/30" or "S245-25/30", 1 in. min.

Base/Top Coat: - "AcryShield" at 2 to 5 gal/sq.

15. Deck: C-15/32 Incline: 1/2

Foam: - "NC245-25/30", 1 in. min.

Base/Top Coat: - "AcryShield" at 2 to 5 gal/sq.

SINGLE PLY MEMBRANE SYSTEMS

Class A, B or C

1. Deck: NC or C-15/32 Incline: See Note 1

Membrane: - Any EPDM, TPO, Hypalon, PVC, TPA, modified bitumen or CPE single ply membrane system, mechanically fastened or fully adhered, non-insulated or insulated, suitable for use over the types of insulation materials specified under the Classified Roofing Systems (TGFU).

Surfacing: - "AcryShield" 1½ to 6 gal/sq. May be reinforced with fabric (3 oz/sq yd max).

Note 1: Classification (A,B or C) and maximum 2-in incline for membrane manufacturer's insulated or non-insulated Roofing Systems (TGFU) Certification.

MAINTENANCE AND REPAIR SYSTEMS

Class A

1. Deck: C-15/32 Incline: 1-1/2

Existing roof system: - BUR, any Class A, B or C. Loose gravel may be removed.

Base Sheet: - One layer Type G2 glass fiber base sheet, nailed or hot mopped.

Coating and Ply Sheet: - 10 to 20 gal/sq "Liquiseal" emulsion with one to three plies polyester fabric (2-1/2 oz/sq yd min) embedded into the emulsion.

Surfacing: - "AcryShield" 1-1/2 to 3 gal/sq.

2. Deck: NC Incline: 2

Existing Roof System: - BUR, any Class A cap sheet.

Coating and Ply Sheet (Optional): - 10 to 20 gal/sq "Liquiseal" emulsion with one to three plies polyester fabric (2-1/2 oz/sq yd max) embedded into emulsion.

Surfacing: - "AcryShield" 2 to 5 gal/sq.

3. Deck: NC Incline: 2

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Existing roof system: - BUR, any Class A, B or C. Loose gravel may be removed.
Coating and Ply Sheet: - 10 to 20 gal/sq "Liquiseal" emulsion with one to three plies polyester fabric (2-1/2 oz/sq yd max) embedded into emulsion.
Surfacing: - "AcryShield" 1-1/2 to 3 gal/sq.

4. Deck: NC**Incline: 3**

Existing Roof System: - Class A or B smooth or gravel surfaced BUR assembly.
Foam: - BASF "Elastospray "81252", "81272", "Alpha System", "81302", 2.5-3.0 lb/cu ft, any thickness.
Base Coat: - One application "AcryShield" base coat, applied at 1-1/2 gal/sq.
Top Coat: - One application "AcryShield" top coat, applied at 1-1/2 gal/sq.
Surfacing: - No. 11 ceramic coated granules broadcast, applied onto wet top coat at 40 lb/sq.

Class B**1. Deck: C-15/32****Incline: 1/4**

Existing Roof System: - Class A or B gravel or smooth surfaced BUR (gravel must be maintained).
Foam: - Resin Technology "RT2030" or "RT2031" series, 1 in. min.
Coating: - "AcryShield", 3 to 6 gal/sq.

2. Deck: C-15/32**Incline: 1**

Existing roof system: - Class A, B or C BUR, loose gravel may be removed, covered with:
Foam: - Polythane "PS SH200-25/30", 1-1/2 in. min.
Surfacing: - Two coats "AcryShield", applied at 2 to 5 gal/sq total.

3. Deck: C-15/32**Incline: 1/4**

Existing roof system: - Class A or B gravel or smooth surfaced BUR (gravel must be maintained).
Foam: - Resin Technology "RT-2030 Series", "RT-2031 Series", or "RT2035 Series", 1 in. min.
Coating: - "AcryShield", 3 to 6 gal/sq.

4. Deck: C-15/32**Incline: 2**

Existing roof system: - Class B or C smooth or gravel surfaced BUR assembly.
Foam: - Polyurethane spray foam, BASF "Elastospray 5100", "Elastospray 585" or "Elastospray "81252", "81272", "Alpha System", "81302", 2.5-3.0 lb/cu ft, 1 in. min.
Base/Top Coat: - "Acryshield", applied at 2 to 5 gal/sq.
Surfacing: - No. 11 ceramic coated granules broadcast, applied onto wet top coat at 40 lb/sq.

5. Deck: C-15/32**Incline: 1/2**

Existing roof system: - Class A or B BUR gravel or smooth surfaced BUR (gravel must be maintained).

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Foam: - BaySystems "SW200-25/30" or "S245-25/30", 1 in. min.

Base/Top Coat: - "AcryShield" at 2 to 5 gal/sq.

6. Deck: C-15/32 Incline: 1/2

Existing roof system: - Class A or B BUR smooth surfaced BUR.

Foam: - "NC245-25/30", 1 in. min.

Base/Top Coat: - "AcryShield" at 2 to 5 gal/sq.

Class A, B or C

(Classification will be the same as that for the original roof)

1. Deck: 15/32 Incline: 1-1/2

Existing roof system: - BUR, any smooth surfaced Class A, B or C.

Coating and Ply Sheets: - 10 to 20 gal/sq of "Liquiseal" emulsion with one to three plies polyester fabric (2-1/2 oz/sq yd min) embedded into emulsion.

Surfacing: - "AcryShield", 1-1/2 to 3 gal/sq.

2. Deck: 15/32 Incline: 1-1/2

Existing roof system: - BUR, any smooth surfaced Class A, B or C.

Foam: - BASF "ELASTOSPRAY 1409, 1270, 1270II, 1302, 1451, 1570, 1605, 1620 or 2001" (2.5-3.0), 2 in. max.

Surfacing: - "AcryShield", 2 to 4 gal/sq.

3. Deck: C-15/32 Incline: 3

Existing roof system: - BUR, any smooth surfaced Class A, B or C.

Foam: - "Premium 241 Series" or Polythane "SH200", any thickness.

Surfacing: - "AcryShield", applied at a total of 2 to 4 gal/sq.

4. Deck: C-15/32 Incline: 1

Existing roof system: - BUR, any smooth surfaced Class A, B or C.

Foam: - Foam Enterprises Inc. "FE 302 Series" or "FE 303 Series", 2 in. max.

Surfacing: - "AcryShield", applied in two or more coats, for a total of 2 to 4 gal/sq.

5. Deck: C-15/32 Incline: 1

Existing roof system: - BUR, any smooth surfaced Class A, B or C.

Foam: - BASF "ELASTOSPRAY 1409, 1270, 1270II, 1302, 1451, 1570, 1605, 1620 or 2001", Premium, Polymers "241", Polythane, Inc. "SH200" or Foam Enterprises "302" or "303" (2.5 to 3.0), any thickness.

Base Sheet: - Foam Experts "Aztec 20", at 1-1/2 gal/sq.

Top Coat: - "AcryShield", applied at a total of 3 gal.

6. Deck: C-15/32 Incline: 1

Existing Roof System: - BUR, any smooth surfaced Class A, B or C.

Surfacing: - "AcryShield", applied in two or more coats, for a total of 2 to 5 gal/sq. May be reinforced with polyester fabric (2-1/2 oz/sq/yd min).

7. Deck: C-15/32 Incline: 2

Existing Roof System: - Class A, B or C smooth or gravel surfaced BUR assembly.

Foam: - BASF "ELASTOSPRAY 1409, 1270, 1270II, 1302, 1451, 1570, 1605, 5100, 1620 or 2001", 2.5-3.0 lb/cu ft, 1 in. min thickness.

Coating: - "AcryShield", applied at a total of 3 to 6 gal/sq.

8. Deck: C-15/32 Incline: 1/2

Existing Roof System: - Any smooth surfaced Class A, B or C BUR.

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Surfacing: - "AcryShield" 6 gal/sq max, may be reinforced with polyester fabric (3 oz/sq yard max).

9. Deck: C-15/32 Incline: 1

Existing Roof System: Any class A, B or C BUR, gravel to be maintained, covered with:

Foam: - IPI "S-1409", 2 in. max.

Coating: - "AcryShield", applied at 2-1/2 to 3 gal/sq.

10. Deck: C-15/32 Incline: 1

Existing Roof System: - Any Class A, B or C insulated or uninsulated smooth surfaced BUR or modified bitumen.

Coating: - 10 to 30 gallons WeatherWeld "WeatherWeld Asphalt Emulsion" applied simultaneously with approximately 1/2 lb per gallon of chopped glass fiber roving.

Surfacing: - "AcryShield", applied at 2 to 5 gallons per square.

Optional Reinforcement: - One ply of polyester fabric may be imbedded into the system for additional reinforcement.

11. Deck: C-15/32 Incline: See Note 1

Existing Roof System: - Any Class A, B or C insulated or uninsulated, Type G3 mineral surfaced cap sheet BUR system.

Surfacing: - "AcryShield", applied at 2 to 6 gallons per square. May be reinforced with polyester fabric (3 oz/sq yd max).

Note 1: Classification (A,B or C) and maximum 2-in incline for roof covering system manufacturer's insulated or non-insulated Roofing Systems (TGFU) Certification.

12. Deck: NC or C-15/32 Incline: See Note 1

Existing Roof System: - Any EPDM, TPO, Hypalon, PVC, TPA, modified bitumen or CPE single ply membrane system, mechanically fastened or fully adhered, non-insulated or insulated.

Surfacing: - "AcryShield", 1½ to 6 gal/sq. May be reinforced with fabric (3 oz/sq yd max).

Note 1: Classification (A,B or C) and maximum 2-in incline for membrane manufacturer's insulated or non-insulated Roofing Systems (TGFU) Certification

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, product identification and UL label.

APPROVAL: Listed as roof covering assemblies as described under "Design".

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This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: **July 01, 2018**

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Authorized By: **DAVID CASTILLO, Program Coordinator**
Fire Engineering Division