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Qualified Envelope Diagnostics, Inc.
AAMA ACCREDITED LAB & FIELD TESTING AGENCY

Q.E.D. = QUOD ERAT DEMONSTRANDUM
"That which is proven"

"Northclad AL"

(Aluminum Interlocking Rainscreen Panel System)

Rainscreen Panel Type: Northclad AL (.050)

Test Buck Size: 10' x 10' (120" x 120") (3024 mm x 3024 mm)

Panel Size: 39.75" x 39.75" (1010 mm x 1010 mm)

Test Panel Array: 3 panels high X 3 panels wide
1 (39.5" x 39.5") jiggled panel (ASTM E 330)

Panel Composition: .050 Aluminum Formed Interlocking Panel
Qty 1 (.063) stiffening rib – 1.5" "Z" channel
attached with 3M VHB (Very High Bond) adhesive
tape.

WRB Assembly Type: Tyvek Commercial Wrap with 3" Tyvek tape.
Tyvek Tape over screw heads.

Buck Assembly Components: 2" x 6" dimensional 18 gauge steel studs
5/8" Densglass Gold substrate
1.5" Zinc Chromate Fasteners
WRB – Tyvek w/taped seams
1/2" Plastic "U" shims
Northclad flashing closures at perimeter

TEST REPORT: QEDLAB LTP #8315: NORTHCLAD AL
TEST DATES: (080522) & (090125)
TEST TYPE: AWS BLOCK

ASTM E 283: AIR INFILTRATION
ASTM E 331: WATER PENETRATION
ASTM E 330: STRUCTURAL PERFORMANCE

ASTM E 283 (Air Infiltration)

(+) 6.24 psf:
Total Air Flow: 0.44 cfm
Product Air Flow: < 0.01 cfm/ft²

ASTM E 331 (Water Penetration)

Full Pass: 25.00 Psf / 1197 Pa / 4.80 "WC / 99 Mph
Full Pass: 30.00 Psf / 1436 Pa / 5.77 "WC / 108 Mph
Full Pass: 35.00 Psf / 1676 Pa / 6.73 "WC / 117 Mph

ASTM E 330 (Structural Performance)

DP80 Rating – Tested at 120.00 Psf

(+) Max Deflection: 2.84 mm
(-) Max Deflection: 4.33 mm
(+) Set Deformation: 0.11 mm
(-) Set Deformation: 0.54 mm

L/175 = 17 mm (Deflection)
0.02% = 0.6 mm (Deformation)
0.03% = 0.9 mm (Deformation)
0.04% = 1.21 mm (Deformation)

TEST CONDITIONS: SEATTLE WA 98125

TESTED INDOORS AT CERTIFICATION FACILITY
67° F / 19° C
27% RH
30.09 IN / 1018.8 hPa