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<tr>
<td>Outside Corner w/ Aluminum Trim</td>
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<tr>
<td>Window Detail Overview</td>
<td>TB3.45</td>
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<tr>
<td>Window Jamb</td>
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</tr>
<tr>
<td>Window Head</td>
<td>TB3.46</td>
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<tr>
<td>Window Sill</td>
<td>TB3.46</td>
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<tr>
<td>Parapet Wall</td>
<td>TB3.47</td>
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<td>Soffit</td>
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- Terra-cotta Rainscreen Solutions™

1. NEACERA® Panel
2. Support Profile
3. Joint Insert
4. Security Tab
5. Horizontal Sub Construction

Overview of Adaptive System

Sub-construction design subject to structural analysis

Closed Joint Insert
see page TB3.9
Joint 8 mm (.31"")

Open Joint Insert
see page TB3.9
Joint 8 mm (.31"")

Rev. 8/15/2013 Subject to amendments TB 3.1
**NeaCera®**

--- Insertion points

**Adaptive system (ADS)**

Panel grid heights/insertion points

Dwg. # ADS 100-06

**Grid (Height - Width ratio)**

- Relative Sizes of different grid heights shown with maximum grid length of 2,000 mm (78.8") using 26mm thick panels

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Max Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 x 900 mm</td>
<td>(5.9&quot; x 35.4&quot;)</td>
<td>max 1,600 mm using 22mm Panel thickness</td>
</tr>
<tr>
<td>175 x 900 mm</td>
<td>(6.9&quot; x 35.4&quot;)</td>
<td>max 1,600 mm using 22mm Panel thickness</td>
</tr>
<tr>
<td>200 x 1,600 mm</td>
<td>(7.9&quot; x 63.0&quot;)</td>
<td>max 1,600 mm using 22mm Panel thickness</td>
</tr>
<tr>
<td>203.2 x 1,600 mm</td>
<td>(8.0&quot; x 63.0&quot;)</td>
<td>max 1,600 mm using 22mm Panel thickness</td>
</tr>
<tr>
<td>225 x 1,600 mm</td>
<td>(8.9&quot; x 63.0&quot;)</td>
<td>N/A @ 22mm Panel thickness</td>
</tr>
<tr>
<td>250 x 2,000 mm</td>
<td>(9.8&quot; x 78.8&quot;)</td>
<td>N/A @ 22mm Panel thickness</td>
</tr>
<tr>
<td>300 x 2,000 mm</td>
<td>(11.8&quot; x 78.8&quot;)</td>
<td>N/A @ 22mm Panel thickness</td>
</tr>
<tr>
<td>304.8 x 2,000 mm</td>
<td>(12.0&quot; x 78.8&quot;)</td>
<td>N/A @ 22mm Panel thickness</td>
</tr>
<tr>
<td>400 x 2,000 mm</td>
<td>(15.7&quot; x 78.8&quot;)</td>
<td>N/A @ 22mm Panel thickness</td>
</tr>
<tr>
<td>406.4 x 2,000 mm</td>
<td>(16.0&quot; x 78.8&quot;)</td>
<td>N/A @ 22mm Panel thickness</td>
</tr>
<tr>
<td>457.2 x 2,000 mm</td>
<td>(18.0&quot; x 78.8&quot;)</td>
<td>N/A @ 22mm Panel thickness</td>
</tr>
<tr>
<td>500 x 2,000 mm</td>
<td>(19.7&quot; x 78.8&quot;)</td>
<td>N/A @ 22mm Panel thickness</td>
</tr>
<tr>
<td>600 x 2,000 mm</td>
<td>(23.6&quot; x 78.8&quot;)</td>
<td>N/A @ 22mm Panel thickness</td>
</tr>
</tbody>
</table>

**Standard Grid Heights & Maximum Grid Lengths**

Rev. 4/15/14  Subject to amendments  TB 3.4
**Grid Divisioning**

<table>
<thead>
<tr>
<th>Grid</th>
<th>No. of Grids</th>
<th>L</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>E</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 (5.9&quot;)</td>
<td>18</td>
<td>2694 (106&quot;)</td>
<td>43</td>
<td>75</td>
<td>75</td>
<td>26</td>
<td>14</td>
</tr>
<tr>
<td>175 (6.9&quot;)</td>
<td>16</td>
<td>2794 (110&quot;)</td>
<td>43</td>
<td>100</td>
<td>75</td>
<td>26</td>
<td>14</td>
</tr>
<tr>
<td>200 (7.9&quot;)</td>
<td>14</td>
<td>2794 (110&quot;)</td>
<td>52</td>
<td>100</td>
<td>100</td>
<td>42</td>
<td>30</td>
</tr>
<tr>
<td>203.2 (8.0&quot;)</td>
<td>14</td>
<td>2838.8 (111.7&quot;)</td>
<td>54.3</td>
<td>100</td>
<td>103.2</td>
<td>42.9</td>
<td>30.9</td>
</tr>
<tr>
<td>225 (8.9&quot;)</td>
<td>12</td>
<td>2694 (106&quot;)</td>
<td>43</td>
<td>150</td>
<td>75</td>
<td>26</td>
<td>14</td>
</tr>
<tr>
<td>250 (9.8&quot;)</td>
<td>11</td>
<td>2744 (108&quot;)</td>
<td>52</td>
<td>150</td>
<td>100</td>
<td>42</td>
<td>30</td>
</tr>
<tr>
<td>300 (11.8&quot;)</td>
<td>9</td>
<td>2694 (106&quot;)</td>
<td>102</td>
<td>150</td>
<td>150</td>
<td>42</td>
<td>30</td>
</tr>
<tr>
<td>304.8 (12.0&quot;)</td>
<td>9</td>
<td>2737.2 (107.7&quot;)</td>
<td>105.9</td>
<td>150</td>
<td>154.8</td>
<td>42.9</td>
<td>30.9</td>
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<tr>
<td>400 (15.7&quot;)</td>
<td>7</td>
<td>2794 (110&quot;)</td>
<td>102</td>
<td>200</td>
<td>200</td>
<td>92</td>
<td>80</td>
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<tr>
<td>406.4 (16.0&quot;)</td>
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<td>2838.8 (111.7&quot;)</td>
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<td>203.2</td>
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<td>88.9</td>
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<td>6</td>
<td>2737.2 (107.7&quot;)</td>
<td>99.4</td>
<td>250</td>
<td>207.2</td>
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<tr>
<td>500 (19.7&quot;)</td>
<td>5</td>
<td>2494 (98&quot;)</td>
<td>102</td>
<td>300</td>
<td>200</td>
<td>92</td>
<td>80</td>
</tr>
<tr>
<td>600 (23.6&quot;)</td>
<td>4</td>
<td>2394 (94&quot;)</td>
<td>152</td>
<td>300</td>
<td>300</td>
<td>142</td>
<td>130</td>
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</tbody>
</table>

* Thermal Expansion Gap

Zo: Panel Offset Up
Zu: Panel Offset Down

Support Profile Length = # of grids minus 6 mm (0.24")

Adaptive system (ADS)
Grid divisioning
Support Profile & Insert Offsets

Dwg. # ADS 100-05

Rev. 11/19/14 Subject to amendments

TB 3.5
NEACERA®
Adaptive System (ADS)
System installation
w/ 26mm panels

ADS 100-02h-l

Panel length =
Grid Length - 2 x 4.25 mm

Example: Grid Length = 450 mm
Panel length = 450 - 2 x 4.25 = 441.5 mm

Note:
Panels must be installed free of any constraint.

All dimensions are in Millimeters, U.N.O.

Sub-construction:
Distances, fasteners and anchors subject to structural calculations
for the respective building project.

Support Profile
Self-Drilling Screw
Joint Insert

NEACERA® Panel

*See Illustration of System Depths on page TB3.7 for further options.
Standard Support Profile
Structural Information:

1) Proof of stability must be certified by a licensed engineer for each specific building project.

2) Elasticity index AlMg4.5 Mn0.7 H24: $E = 70,000 \text{ N/mm}^2$ (comparable with DIN 4113 Part 1)

3) Cross-sectional values of the Standard ADS Support Profiles:

<table>
<thead>
<tr>
<th>Depth</th>
<th>35 mm (1.37&quot;)</th>
<th>45 mm (1.77&quot;)</th>
<th>55 mm (2.16&quot;)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1.72 cm² (0.27 in²)</td>
<td>2.12 cm² (0.33 in²)</td>
<td>2.52 cm² (0.39 in²)</td>
</tr>
<tr>
<td>Cross-sectional area</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moment of Inertia</td>
<td>$I_y = 0.28 \text{ cm}^4 (0.0067 \text{ in}^4)$</td>
<td>$I_y = 1.22 \text{ cm}^4 (0.029 \text{ in}^4)$</td>
<td>$I_y = 3.13 \text{ cm}^4 (0.075 \text{ in}^4)$</td>
</tr>
<tr>
<td></td>
<td>$I_z = 7.97 \text{ cm}^4 (0.191 \text{ in}^4)$</td>
<td>$I_z = 11.34 \text{ cm}^4 (0.272 \text{ in}^4)$</td>
<td>$I_z = 14.71 \text{ cm}^4 (0.353 \text{ in}^4)$</td>
</tr>
<tr>
<td>Section modulus</td>
<td>$W_{xy} = 0.24 \text{ cm}^3 (0.015 \text{ in}^3)$</td>
<td>$W_{xy} = 0.66 \text{ cm}^3 (0.040 \text{ in}^3)$</td>
<td>$W_{xy} = 1.26 \text{ cm}^3 (0.077 \text{ in}^3)$</td>
</tr>
<tr>
<td></td>
<td>$W_{xz} = 0.86 \text{ cm}^3 (0.053 \text{ in}^3)$</td>
<td>$W_{xz} = 1.90 \text{ cm}^3 (0.116 \text{ in}^3)$</td>
<td>$W_{xz} = 3.08 \text{ cm}^3 (0.188 \text{ in}^3)$</td>
</tr>
<tr>
<td></td>
<td>$W_{yz} = 2.66 \text{ cm}^3 (0.162 \text{ in}^3)$</td>
<td>$W_{yz} = 3.78 \text{ cm}^3 (0.231 \text{ in}^3)$</td>
<td>$W_{yz} = 4.90 \text{ cm}^3 (0.299 \text{ in}^3)$</td>
</tr>
</tbody>
</table>

Diagram: Channel section

Profile depth

Structural Data

Rev. 8/15/13 Subject to amendments TB 3.8
Support Profile

Sheathing & Weather Barrier

Horizontal Sub Construction

Grid Height

Panel Length

Grid Length

System Depth 66" (2.2')

See Illustration of System Depths on page TB3.7 for further options.
Adaptive System (ADS)

Outside Corner 90°
with Mitered Edges
(optional)
ADS 100-24-1A

Typical Detail 4A

Outside Corner
90°
with Visible Corner
Extrusion
ADS 100-25-1

Typical Detail 5A

* See illustration of System Depths on page TB3.7 for further options.
"7b"

"7a"

"7c"

Typical Detail 7

NeACERA®
Adaptive System (ADS)
Overview window details
w/ 26mm Panels

ADS 100-13-I

NeACERA®
Adaptive System (ADS)
Window Jamb
w/ 26mm Panels

ADS 100-14-I

Panel Length

<table>
<thead>
<tr>
<th>Panel Grid</th>
<th>Panel Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ads</td>
<td>4 (.15&quot;)</td>
</tr>
</tbody>
</table>

*See illustration of System Depths on page TB3.7 for further options.*
With small return tiles, it is recommended to assemble corner using Return Clamps, prior to installation.

Return Clamp for outside corners
20 x 66 x 66 x 20 mm

Mill Finish

drill borehole for recessed pan head screw
3/16" x 5/8" screws (by others)

Obtuse angle (max. 135°)

* = angle as per customer specification

Rev. 8/15/13 Subject to amendments TB 3.18
Intermediate Support Hook for cut panel

Cut Panel

grid dim.

lower hook may be turned around or cut off if required

Horizontal joint spacer for the tile sections with one supporting hook only

grid dim.

Small Gable Clamp for grid 200, 250, 300, 400, 500, 600

Cut Panel

ALL PANELS REQUIRE SUPPORT AT 2 POINTS AT EACH END

CUT PANEL DETAIL

Rev. 7/15/13 Subject to amendments TB 3.19
*See Illustration of System Depths on page TB3.7 for further options.
Example for curved walls using Closed Joint Insert:

Radius of 8.00 m (26'-3") using 800mm panel length (max.)
Max. inclination relative to support profile is 3°

Radius of 4.00 m (13'-1 1/2") using 400mm panel length (max.)
Max. inclination relative to support profile is 3°

Radius of structure:
For Radius ≥ 13'-1 1/2"
a Standard closed joint profile can be used

Examples for curved walls using Open Joint Insert:

Radius of 4.00 m (13'-1 1/2") using 800mm panel length (max.)
Max. inclination relative to support profile is 6°

Radius of 2.0 m (6'-6") using 400 mm panel length (max.)
max. inclination relative to support profile is 6°

Radius of structure:
For Radius between 6'-6" and 13'-3", an open joint profile can be used
This is a summary of commonly used components to demonstrate overall assembly depths. There are many variables and an vast number of component depths to choose from, based on specific project requirements. Please contact your NeaCera® representative for further information.

**NeaCera®**

Illustration of Sub Construction, System, and Overall Depths

**OVERALL DEPTH FOR BAS SUPPORT PROFILE:**

- USING 22mm PANELS: 27mm (1.06")
- USING 26mm PANELS: 31mm (1.2")
- USING 34mm PANELS: 39mm (1.54")

**SUB CONSTRUCTION DEPTH FOR I-FRAME™:**

- 1" I-FRAME™ (1 3/16" O.D.)
- 2" I-FRAME™ (2 3/16" O.D.)
- 3" I-FRAME™ (3 3/16" O.D.)

**SYSTEM DEPTH (PANEL & ADS SUPPORT PROFILE):**

- 42mm (1.6"), USING 22mm PANELS, 35mm SUPPORT PROFILE
- 66mm (2.6"), USING 26mm PANELS, 55mm SUPPORT PROFILE
- 74mm (2.9"), USING 34mm PANELS, 55mm SUPPORT PROFILE

**OVERALL DEPTH (PANEL, ADS SUPPORT PROFILE & I-FRAME™):**

- 72.2mm (2.8"), USING 22mm PANELS,
- 35mm SUPPORT PROFILE, 1" I-FRAME™
- 146.9mm (5.8"), USING 26mm PANELS,
- 55mm SUPPORT PROFILE, 3" I-FRAME™
- 154.9mm (6.1"), USING 34mm PANELS,
- 55mm SUPPORT PROFILE, 3" I-FRAME™

You may use any combination of 1", 2" or 3" I-Frame™ with 35, 45, or 55mm ADS Support Profiles, using 22, 26 or 34mm panels.

**SUB CONSTRUCTION DEPTH FOR ADS BRACKET:**

ADS BRACKETS ARE AVAILABLE IN 5 DIFFERENT DEPTHS AND RANGE IN DEPTH AS SHOWN BELOW.

- MIN: 85.7mm (3.4"), USING #45 081 ADS BRACKET
- MAX: 190.5mm (7.5"), USING #45 161 ADS BRACKET

**SYSTEM DEPTH (PANEL & ADS SUPPORT PROFILE):**

- 42mm (1.6"), USING 22mm PANELS, 35mm SUPPORT PROFILE
- 66mm (2.6"), USING 26mm PANELS, 55mm SUPPORT PROFILE
- 74mm (2.9"), USING 34mm PANELS, 55mm SUPPORT PROFILE

**OVERALL DEPTH (PANEL, ADS SUPPORT PROFILE & ADS BRACKET):**

- 127.7mm (5"), USING 22mm PANELS, 35mm SUPPORT PROFILE, #45 081 ADS BRACKET
- 256.5mm (10.1"), USING 26mm PANELS, 55mm SUPPORT PROFILE, #45 161 ADS BRACKET
- 264.5mm (10.4"), USING 26mm PANELS, 55mm SUPPORT PROFILE, #45 161 ADS BRACKET

You may combine any ADS Bracket with 35, 45, or 55mm ADS Support Profiles, using 22, 26 or 34mm panels.

Rev. 8/15/13

Subject to amendments. Not to Scale, Not for Construction

TB 3.22
Illustration of Panel Shapes

NEACERA®
CLASSIC PANEL
PILASTER PANEL
GROOVED PANEL
STRIPED PANEL

36.0mm [1 7/16"]
22.0mm [7/8”]
117.4mm [4 5/8”]
70.0mm [2 3/4”]
304.8mm [1”]
14.0mm [9/16”]
117.4mm [4 5/8”]

(300mm panel can also be used with 12” Support Profile to modulate 12” panel grid)
Standard Panel Sizes, Shapes and Colors

Dwg # 109

Neacera® - Terra-cotta Panels
[ Mitered Corners ]

Dwg # 110

Neacera® - Terra-cotta Panels
[ Horizontal Grooves ]

For all surfaces, as a ventilation/design feature
Support Profile

Panel length = 
Grid Length - 2 x 4.25 - 2 x 1.0 mm = 8.50 mm

Example: Grid Length = 450 mm
Panel length = 450 - 2 x 4.25 - 2 x 1.0 = 441.5 mm

Note:
Panels must be installed free of constraint forces between the BAS Support Profiles.

Sub-construction:
Distances, fasteners and anchors are subject to structural calculation for each respective building project.

Support Profile
Self-Drilling Screw

Primary System

NEACERA® Panel

See illustration of System Depths on page TB3,4C for further options.
Grid Divisioning

<table>
<thead>
<tr>
<th>Grid</th>
<th>No. of grids</th>
<th>L</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>18</td>
<td>2694 (106°)</td>
<td>55 (2.16&quot;)</td>
<td>75 (2.95&quot;)</td>
<td>75 (2.95&quot;)</td>
<td>14 (.55&quot;)</td>
</tr>
<tr>
<td>175</td>
<td>16</td>
<td>2794 (110°)</td>
<td>55 (2.16&quot;)</td>
<td>100 (3.93&quot;)</td>
<td>75 (2.95&quot;)</td>
<td>14 (.55&quot;)</td>
</tr>
<tr>
<td>200</td>
<td>14</td>
<td>2794 (110°)</td>
<td>64 (2.52&quot;)</td>
<td>100 (3.93&quot;)</td>
<td>100 (3.9&quot;)</td>
<td>30 (1.2&quot;)</td>
</tr>
<tr>
<td>225</td>
<td>12</td>
<td>2694 (106°)</td>
<td>55 (2.16&quot;)</td>
<td>150 (5.9&quot;)</td>
<td>75 (3.9&quot;)</td>
<td>14 (.55&quot;)</td>
</tr>
<tr>
<td>250</td>
<td>11</td>
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<td>150 (5.9&quot;)</td>
<td>100 (3.9&quot;)</td>
<td>30 (1.2&quot;)</td>
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<tr>
<td>300</td>
<td>09</td>
<td>2694 (106°)</td>
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<td>07</td>
<td>2794 (110°)</td>
<td>114 (4.49&quot;)</td>
<td>200 (7.9&quot;)</td>
<td>200 (7.9&quot;)</td>
<td>80 (3.1&quot;)</td>
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<tr>
<td>500</td>
<td>05</td>
<td>2494 (98°)</td>
<td>114 (4.49&quot;)</td>
<td>300 (11.8&quot;)</td>
<td>200 (7.9&quot;)</td>
<td>80 (3.1&quot;)</td>
</tr>
<tr>
<td>600</td>
<td>04</td>
<td>2394 (94°)</td>
<td>164 (6.46&quot;)</td>
<td>300 (11.8&quot;)</td>
<td>300 (11.8&quot;)</td>
<td>130 (5.1&quot;)</td>
</tr>
</tbody>
</table>

Support Profile Length = # of grids minus 6 mm (0.24")

* Thermal Expansion Gap

Zo: Panel Offset Up
Zu: Panel Offset Down
Base System (BAS)
Vertical Section w/
26mm Panels

Dwg. # BAS 200-19

*See Illustration of System Depths on page TB3.42 for further options.*