Architectural
Interior Wall
Paneling
Compact Laminate

Arpa Compact Laminate is comprised of reinforced wood fibres and thermosetting resins which when manufactured under very high pressure and heat produce a homogenous, non porous and extremely strong material. The surface of compact laminate is achieved through a decorative paper impregnated with melamine which gives it an extremely high wear and scratch resistant property.

Because of it’s particular material makeup and mechanical properties, Compact Laminate has the following attributes:

- **Impact Resistant** - because of it's solid core and hard surface, this material is a good choice for surfacing, wall cladding and case work that needs to be durable.

- **Scratch resistant** - the melamine surface provides excellent scratch resistance even in heavy duty use and high traffic areas.

- **Wear resistant** - this surface is durable and long lasting; ideal even when frequent cleaning is required.

- **Non-porous** - since Compact Laminate has a sealed non-porous surface, it is hygenic, chemically resistant and not affected by moisture.

- **Extreme Temperature Resistant** - Arpa Compact Laminate is not affected by temperatures ranging from -20 to 280 degrees F.

- **Structural Strength** - Due to it’s high flexural rigidness, Arpa's Compact Laminate is highly suited for self supporting applications.
Architectural Interior Panels and Fastening Systems

Open Reveal
The “open reveal” system features a 1/4” channel at all joint areas. Perfect for the designer looking for a flush system with elegant detailing.
Available in satin, black, gold and bronze finish.

Captured
The “captured system” features a closed edge. It is ideally suited for hospitals and other high traffic applications where cleanliness is of utmost concern.
Available in satin, black, gold and bronze finish.

Shadowline
The “shadowline system” features a narrow edge and joint reveal that creates a slight shadow between the panels and the extrusion for a subtle, upscale look.
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Panel Specifications

<table>
<thead>
<tr>
<th>Sheet Size</th>
<th>Panels are custom fabricated to meet the design needs of each project’s requirements. Maximum size 51” x 120”</th>
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<td>Thickness</td>
<td>8 mm (.31”)</td>
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<td>Finish (Surface Texture)</td>
<td>Standard Finishes - matte (erre), gloss, and pesca. Other finishes available upon request.</td>
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<td>Fire Rating</td>
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<td>Pattern availability</td>
<td>Most of Arpa’s thin laminate patterns are available. Check the “Wall Panel” sample chain, “Wall Panel” patterns selection sheet, or contact your local Arpa sales representative for information.</td>
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Arpa architectural wall panels represent the ultimate in design flexibility. Arpa has been manufacturing high pressure laminates for over 50 years and is recognized as a design innovator. With distribution and sales representation globally, Arpa can handle any project regardless of its scope or location. Designers and architects are offered a wide range of patterns from which to select; woodgrains, minerals, stones, solid colors, digital, and abstract patterns. Combined with a broad range of available textures the designer has virtually unlimited possibilities.

For technical assistance or additional information contact Arpa USA or your local Arpa sales representative.
Fixed and sliding points have to be formed (Fig. 15.)

**Sliding point**
The diameter of the drill hole in ARPA (BG) must be drilled larger than the diameter of the fastening, depending on the required expansion clearance. This is the shaft diameter of the fastening plus 2 mm (.08") for every meter of cladding material starting from the fixed point. The head of the fastening must be big enough so that the drill hole in ARPA (BG) is always covered. The fastening is placed in such a way that the panel can move. Rivets are put in place with flexible mouth-pieces. The defined clearance of the rivet head to the surface of the panel (0.3 mm,.01") allows movement of the element in the drill hole.

Screws must not be over-tightened. Do not use any countersunk screws - use washers if necessary. The center point of the drill hole in the subconstruction must coincide with the centre point of the drill hole in the ARPA (BG) panels. Drill with a centering piece. The fastenings should be put in place starting from the middle of panel outwards.

**Fixed point**
Fixed points are used for uniform distribution (halving) of the expansion and shrinkage movements. The diameter of the drill hole in ARPA (BG) is the same size as the diameter of the fastening.

**Edge spacings**
For reasons of stability and flatness, the edge spacings must be kept to without fail. The joints must be made at least 8 mm (5/16") wide so that changes in size can take place without hindrance.

**Fastening Spacings**
These are to be chosen in accordance with the structural engineering requirements (calculations) or, if this is not necessary due to the local regulations, according to the following table. In the edge region of the construction, the spacings of the fastenings are to be chosen smaller than in the central region (pressure, suction).

<table>
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<tr>
<th>Panel thickness</th>
<th>Maximum fastening spacing “b” Single span panel</th>
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<td>500 mm (19&quot;)</td>
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<tr>
<td>8 mm</td>
<td>600 mm (24&quot;)</td>
<td>700 mm (28&quot;)</td>
</tr>
<tr>
<td>10 mm</td>
<td>700 mm (28&quot;)</td>
<td>850 mm (34&quot;)</td>
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Visable Mechanical Fastening

- ARPA (BG) panels can be mounted using screws or rivets on an aluminium substructure, or with screws on a wood framework. An aluminium substructure consists of vertical support profiles which are secured to the wall using angle brackets. A wooden substructure consists of slats fitted to durable studs secured to the wall. Due to the material properties of ARPA (BG), fixed points and sliding points need to be made to mount the panels (Fig. 15 and Fig. 16).

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**Visible Mechanical Fastening**

<table>
<thead>
<tr>
<th>Fixed point</th>
<th>Sliding point</th>
<th>Space from edge</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>≥8 mm (5/16&quot;)</td>
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**Example of vertical joint**

For installation with mechanical fastenings

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*Fixed point Sliding point Space from edge*
Visible Fastening With Screws on a Timber Batten

**External Corner Profile**

- **Panel Thickness:** Varies
- **Line of Building Substrate:** 3/4” - 1 1/2”
- **Vertical Timber Batten**
- **Arpa Panel**
- **Color Coated Screws to Match Panel**
- **External Corner Profile** (Optional)
- **Wall Anchors can vary subject to substrate composition**
  (For plumbing and aligning of vertical rails, shim as required)
- **2-3mm Space Between Panel and Screw to Allow For Expansion/Contraction**

**Horizontal Joint Detail**

- **Color Coated Screws to Match Panel**
- **Arpa Panel**
- **Vertical Timber Battens**
- **Panel Thickness:** Varies
- **Line of Building Substrate:** 1/2” - 1 1/2”
- **Wall Anchors can vary subject to substrate composition**
  (For plumbing and aligning of vertical rails, shim as required)
- **2-3mm Space Between Panel and Screw to Allow For Expansion/Contraction**
- **Structure Wall Substrate**
- **1/8” - 3/8”**
Visable Fastening With Screws on a Timber Batten

Intermediate Support Detail

Wall Anchors can vary subject to substrate composition
(For plumbing and aligning of vertical rails, shim as required)

Vertical Timber Batten
Intermediate Support

Color Coated Screws to Match Panel

2-3mm Space Between Panel and Screw to Allow For Expansion/Contraction

Panel Thickness Varies

1/2" - 1/12"

Vertical Panel Joint Detail

Wall Anchors can vary subject to substrate composition
(For plumbing and aligning of vertical rails, shim as required)

Color Coated Screws to Match Panel

2-3mm Space Between Panel and Screw To Allow For Expansion/Contraction

Panel Thickness Varies

1/8" - 3/8"
Gluing*
An alternative to fastening with mechanical means is gluing the ARPA (BG) wall panels* with the adhesive and tape gluing system. This system requires less installation time than mechanical fixing. It works on normal planed wood or aluminium subconstructions. Gluing is a clean and simple solution for vertical wall panel systems, ceilings reveals and much more.

For proper structural bonding, Arpa wall panels are designed to be used with the proper wall cladding adhesive.

Also, the installation procedures and technical information specified by the adhesive manufacturer must be strictly complied with to ensure proper bonding.**

Advantages of the adhesive gluing system:
- Excellent appearance - no fastening elements can be seen from the front
- Simple, economical and fast installation
- Tough, movement-absorbing fastening
- 75 lbs. psf holding strength

*Not recommended for pattern 2002OP

**Failure to use the correct fasteners or adhesive, or to strictly follow the correct installation procedures as required by the adhesive/fastener manufacturer, may result not only in the voidance of the product warranty but may result in potential panel detachment causing personal injury, death or property damage.
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Shim as required

Wall Fastener (GEN-008)

Stud Framing

Drywall

Edge J (CAP-105)

Arpa Panel 3/8" or 5/16"

Edge J CAP-105
Edge Radius Return (CAP-104)

Shim as required

Wall Fastener (GEN-008)

Stud Framing

Drywall

Arpa Panel 3/8" or 5/16"

Edge Radius Return CAP-104

Title: Captured Edge - Radius

View: Section

Date: 1/26/08

Detail: I

System Type: Captured

Scale: Full

Drawn By: MSS
Stud Framing

Panel Clip 3/8" (GEN-002) or 5/16" (GEN-003)

Panel Fastener (GEN-007)

Shim as required

Horizontal Joint (CAP-111)

Joint Insert (CAP-151)

Clear Silicone (GEN-010)

Panel Clip on Panel Beyond Arpa Panel 3/8" or 5/16"

Drywall

Wall Fastener (GEN-008)

Panel Clip 3/8" GEN-002

Panel Clip 5/16" GEN-003

Horizontal Joint CAP-121

Joint Insert CAP-151

Title: Horizontal Joint Detail

View: Section

Date: 1/26/08

Detail E System Type: Captured

Scale: Full

Drawn By: MSS
Inside Corner Detail

Stud Framing

Inside Corner (CAP-141)

Wall Fastener (GEN-008)

Clear Silicone (GEN-010)

Edge Insert (CAP-150)

Arpa Panel 3/8" or 5/16"

Shim as needed

Extrusion Beyond

Drywall

Inside Corner CAP-141

Edge Insert CAP-150

Title: Inside Corner Detail

View: Plan

Date: 1/26/08

Detail: H

System Type: Captured

Scale: Full

Drawn By: MSS
Arpa Panel
3/8" or 5/16"

Outside Corner
CAP LARGE (CAP-135)

Clear Silicone
(GEN-010)

Outside Corner
RECEIVER (CAP-133)

Shim as required

Extrusion Beyond

Stud Framing

Wall Fastener
(GEN-008)

Drywall

Outside Corner
Receiver
CAP-133

Outside Corner
Cap Large
CAP-135
Arpa Panel
3/8" or 5/16"

Outside Corner
CAP SMALL (CAP-134)

Clear Silicone
(GEN-010)

Outside Corner
RECEIVER (CAP-133)

Stud Framing

Wall Fastener
(GEN-008)

Shim as required

Extrusion Beyond

Drywall

Outside Corner
Receiver
CAP-133

Outside Corner
Cap Small
CAP-134

Title: Outside Corner Small
View: Plan
Date: 1/26/08

Detail: F
System Type: Captured
Scale: Full
Drawn By: MSS
Wall Fastener (GEN-008)

Shim as required

Edge (CAP-103)

Clear Silicone (GEN-010)

Edge Insert (CAP-150)

Arpa Panel 3/8" or 5/16"

Drywall

Stud Framing

Edge CAP-103

Edge Insert CAP-150
Wall Fastener (GEN-008)

Stud Framing

Drywall

Shim as required

Edge (CAP-103)

Clear Silicone (GEN-010)

Extrusion Beyond Arpa Panel 3/8" or 5/16"

Edge Insert (CAP-150)

Title: Vertical Edge Detail
View: Plan
Date: 1/26/08

Detail System Type: C Captured
Scale: Full
Drawn By: MSS
Wall Fastener (GEN-008)

Shim as required

Arpa Panel 3/8" or 5/16"

Extrusion Beyond Vertical Joint (CAP-111)

Joint Insert (CAP-151)

Clear Silicone (GEN-010)

Trespa Panel 3/8" or 5/16"

Stud Framing

Drywall

Vertical Joint CAP-111

Joint Insert CAP-151
Stud Framing
Drywall

Arpa Panel
3/8" or 5/16"

Panel Clip
3/8" (GEN-002) or
5/16" (GEN-003)

Panel Fastener
(GEN-007)

Wall Fastener
(GEN-008)

Shim as Required

Eased Panel Edge

Edge (ORS-103)

Panel Clip 3/8"
GEN-002

Panel Clip 5/16"
GEN-003

Edge
ORS-103

Title: Bottom Edge Detail

View: Section

Detail: A

System Type: ORS

Scale: Full

Date: 1/26/08

Drawn By: MSS
Arpa Panel 3/8" or 5/16"

Outside Corner CAP LARGE (ORS-135)

Clear Silicone (GEN-010)

Outside Corner RECEIVER (ORS-133)

Shim as required

Extrusion Beyond

Drywall

Stud Framing

Wall Fastener (GEN-008)

Outside Corner Receiver ORS-133

Outside Corner Cap Large ORS-135

---

Title: Outside Corner Large
View: Plan
Date: 1/26/08

Detail G System Type: ORS
Scale: Full

Drawn By: MSS
Wall Fastener (GEN-008)

Shim as required

Edge (ORS-103)

Eased Edge

VHB Tape (GEN-009)

Arpa Panel 3/8" or 5/16"

Drywall Stud Framing

Edge ORS-103
Arpa Panel
3/8" or 5/16"

Outside Corner CAP SMALL (ORS-134)

Clear Silicone (GEN-010)

Outside Corner RECEIVER (ORS-133)

Shim as required

Extrusion Beyond

Drywall

Stud Framing

Wall Fastener (GEN-008)

Outside Corner Receiver ORS-133

Outside Corner Cap Small ORS-134
Wall Fastener (GEN-008)

Stud Framing

Drywall

Shim as required

Edge (ORS-103)

Extrusion Beyond Arpa Panel

3/8" or 5/16"

Eased Edge

Edge
ORS-103

Title: Vertical Edge Detail

View: Plan

Date: 1/26/08

Detail: C

System Type: ORS

Scale: Full

Drawn By: MSS
Wall Fastener (GEN-008)  
Shim as required  
Arpa Panel 3/8" or 5/16"  
Extrusion Beyond  
Vertical Joint (ORS-111)  
Eased Edge  
Arpa Panel 3/8" or 5/16"  
Drywall  
Vertical Joint ORS-111
Shim as required
Wall Fastener (GEN-008)
Stud Framing
Drywall

Edge Radius (SHA-102)
Eased Edge
VHB Tape (GEN-009)
Arpa Panel 3/8" or 5/16"

Edge Radius SHA-102
Shim as required
Wall Fastener (GEN-008)
Stud Framing
Drywall

Edge Radius (SHA-102)
Eased Edge
VHB Tape (GEN-009)

Arpa Panel 3/8" or 5/16"

Edge Radius SHA-102
Stud Framing

Wall Fastener (GEN-008)

Eased Edge

Inside Corner (SHA-140)

Arpa Panel 3/8" or 5/16"

Shim as needed

Extrusion Beyond

Drywall

Inside Corner SHA-140

Title: Inside Corner Detail

View: Plan

Date: 1/26/08

Detail | System Type | Scale | Drawn By
--- | --- | --- | ---
I | Shadowline | Full | MSS
Arpa Panel
3/8" or 5/16"

Outside Corner Open (SHA-132)
Eased Edge
Shim as required
Extrusion Beyond
Drywall

Stud Framing
Wall Fastener (GEN-008)

Outside Corner Open
SHA-132

Title: Outside Corner Open
Detail: H
System Type: Shadowline
View: Plan
Scale: Full
Date: 1/26/08
Drawn By: MSS
Arpa Panel
3/8" or 5/16"

Outside Corner Radius (SHA-130)

Eased Edge

Shim as required

Extrusion Beyond

Stud Framing

Wall Fastener (GEN-008)

Drywall

Outside Corner Radius SHA-130
Arpa Panel
3/8" or 5/16"

Outside Corner Square (SHA-131)
Eased Edge
Shim as required
Extrusion Beyond

Stud Framing
Wall Fastener (GEN-008)

Outside Corner Square SHA-131

Title: Outside Corner Square
View: Plan
Date: 1/26/08

Detail: G
System Type: Shadowline
Scale: Full
Drawn By: MSS
Wall Fastener (GEN-008)

Stud Framing

Drywall

Shim as required

Edge (SHA-101)

Extrusion Beyond Arpa Panel
3/8" or 5/16"

Eased Edge

Edge SHA-101
Wall Fastener (GEN-008)

Shim as required

Arpa Panel 3/8" or 5/16"

Extrusion Beyond

Stud Framing

Vertical Joint (SHA-110)

Eased Edge

Drywall

Arpa Panel 3/8" or 5/16"

Vertical Joint SHA-110

Title: Vertical Joint Detail

View: Plan

Date: 1/26/08

Detail: D

System Type: Shadowline

Scale: Full

Drawn By: MSS
Panel Fastener (GEN-008)

Shim as required

Wall Fastener (GEN-008)

Backings

Drywall

Panel Clip 5/16" (GEN-003) or 3/8" (GEN-002)

Midwall Clip GEN-013

Arpa Panel 5/16" or 3/8"

Midwall Clip GEN-013

Panel Clip GEN-003

Panel Clip 3/8" GEN-002

Title: Midwall Clip

View: Section

Date: 3/03/08

Detail: MC

System Type:

Scale: Full

Drawn By: MSS