

## OSHPD & DSA Approvals

### OSHPD

- OSHPD stands for “California Office of Statewide Health Planning and Development”.
- California requires a pre-approval for equipment that will be anchored to structure of all California hospitals. This is to ensure that the equipment will remain anchored in the event of an earthquake.
- Pre-approval of products requires engineering calculations and/or physical testing of product that proves the product will hold up to earthquake forces. Our current pre-approved products were not physically tested.
- Customer’s that require OSHPD pre-approval will need a copy of the -- pre-approval document. Each OSHPD pre-approval document contains a drawing showing installation requirements (**THESE MAY BE DIFFERENT THEN THE MILESTONE INSTALLATION MANUAL, INCLUDING WEIGHT AND HEIGHT REQUIREMENTS**). These documents will be stamped by a California certified engineer and by the OSHPD office. They are available on the Chief website [www.chiefmfg.com](http://www.chiefmfg.com) under the pre-approved product. Multiple products may be listed on the same pre-approval document.
- Each OSHPD pre-approval is given an “OPA” number and is listed on the OSHPD website <http://www.oshpd.ca.gov>
- California updated the building code effective 1/2008. Because of these changes all previously pre-approved product needed to be resubmitted for testing. All product pre-approved before 1/2008 is considered --. Once the California Engineer reviews the document he will decide if they can be Pre-Approved as they are or further testing will be needed.

### DSA

- DSA stands for “California Division of the State Architect”.
- California requires that plans for new construction, additions, and renovations of school buildings in California be approved by DSA.
- The DSA may approve construction plans based on OSHPD pre-approval of the products that will be used in the construction.

## Current OSHPD – Pre-approvals

<b>Flat Panel Wall Mounts</b>			
<b>Product</b>	<b>OPA Number</b>	<b>OPA Description</b>	<b>Comments</b>
<b>PRO</b>	OPA-0801	Large Flat Panel Display (Fixed and Tilt Mount)	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Approved for wood and steel stud installation
<b>PLP</b>			
<b>PST</b>			
<b>MSR</b>	OPA-0802	Medium Flat Panel Display (Fixed and Tilt Mount)	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Approved for wood and steel stud installation
<b>MTR</b>			
<b>iCLPFM1</b>	OPA-0803	Universal Flat Panel Display (Fixed and Tilt Mount)	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Approved for wood and steel stud installation
<b>iCLPTM1</b>			
<b>RLT1</b>			
<b>RLF1</b>			
<b>RMT1</b>			
<b>RMF1</b>			
<b>WM110</b>	OPA-2346-07	Wall Mounted Projector Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Approved for wood.
<b>WM110I</b>			
<b>WM120</b>			
<b>WM120I</b>			
<b>WM130</b>	OPA-2347-07	Wall Mounted Projector Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Approved for wood and steel stud walls.
<b>WM210</b>			
<b>WM210I</b>			
<b>WM220</b>	OPA-2514-10	Medium Flat Panel Display (Fixed and Tilt Mount)	Product meets 2010 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Approved for wood, cement block and steel stud walls. 125lbs maximum weight includes mount.
<b>WM220I</b>			
<b>MSA</b>	OPA-2515-10	Medium Flat Panel Display (Fixed and Tilt Mount)	Product meets 2010 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Approved for wood, cement block and steel stud walls. 125lbs maximum weight includes mount.
<b>MTA</b>			
<b>MSM</b>	OPA-2516-10	Large Flat Panel Display (Fixed and Tilt Mount)	Product meets 2010 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Approved for wood, cement block and steel stud walls. 200lbs maximum weight includes mount.
<b>MTM</b>			
<b>LSA</b>	OPA-2517-10	Large Flat Panel Display (Fixed and Tilt Mount)	Product meets 2010 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Approved for wood, cement block and steel stud walls. 200lbs maximum weight includes mount.
<b>LTA</b>			
<b>LSM</b>	Pending	Large Flat Panel Display (Fixed and Tilt Mount)	Product meets 2010 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Approved for wood, cement block and steel stud walls. 200lbs maximum weight includes mount.
<b>LTM</b>			

## Current OSHPD – Pre-approvals

Flat Panel Wall Mounts			
XSM	OPA-2518-10	Extra Large Flat Panel Display (Fixed and Tilt Mount)	Product meets 2010 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Approved for wood, cement block and steel stud walls. 250lbs maximum weight includes mount.
XTM	Pending		

## Current OSHPD – Pre-approvals

<b>Flat Panel Ceiling Mounts</b> (Ceiling mounts are not suitable for patient rooms)			
<b>Product</b>	<b>OPA Number</b>	<b>OPA Description</b>	<b>Comments</b>
<b>FHP</b>	OPA-2107-07	Single Ceiling Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Maximum Extension arm of 84", maximum extension to center of gravity is 60". Center of gravity maximum weight is 70lbs total. Use Chief Structural Ceiling Plate CMS345 with (6) 3/8" A325 Bolts
<b>FHS</b>	OPA-2108-07	Single Ceiling Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Maximum Extension arm of 84", maximum extension to center of gravity is 60". Center of gravity maximum weight is 70lbs total. Use Chief Structural Ceiling Plate CMS345 with (6) 3/8" A325 Bolts
<b>JHS</b>	OPA-2106-07	Single Ceiling Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Maximum Extension arm of 84", maximum extension to center of gravity is 60". Center of gravity maximum weight is 70lbs total. Use Chief Structural Ceiling Plate CMS345 with (6) 3/8" A325 Bolts
<b>MCS</b>	OPA-2105-07	Single Ceiling Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Maximum Extension arm of 60", maximum extension to center of gravity is 48". Center of gravity maximum weight is 125lbs total. Use Chief Structural Ceiling Plate CMS345 with (6) 3/8" A325 Bolts
<b>MCD</b>	OPA-2105-07	Dual Ceiling Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Maximum Extension arm of 72", maximum extension to center of gravity is 63". Center of gravity maximum weight is 240lbs total. Use Chief Structural Ceiling Plate CMS345 with (6) 3/8" A325 Bolts
<b>PCM</b>	OPA-2104-07	Single Ceiling Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Maximum Extension arm of 74", maximum extension to center of gravity is 64". Center of gravity maximum weight is 210lbs total. Use Chief Structural Ceiling Plate CMS345 with (6) 3/8" A325 Bolts
<b>PCS</b>	OPA-2103-07	Single Ceiling Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Maximum Extension arm of 36", maximum extension to center of gravity is 24". Center of gravity maximum weight is 210lbs total. Use Chief Structural Ceiling Plate CMS345 with (6) 3/8" A325 Bolts
<b>PDC</b>	OPA-2103-07	Dual Ceiling Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Maximum Extension arm of 27", maximum extension to center of gravity is 36". Center of gravity maximum weight is 400lbs total. Use Chief Structural Ceiling Plate CMS345 with (6) 3/8" A325 Bolts

## Current OSHPD – Pre-approvals

<b>Projector Mounts</b>			
<b>Product</b>	<b>OPA Number</b>	<b>OPA Description</b>	<b>Comments</b>
<b>CMA100</b>	OPA-1361	Projector Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. 60" maximum distance from ceiling to the bottom of the mount using any accessories/mounts (eg RPA/RPM/CMS Pipe) weighing a maximum total of 70lbs. Use (4) ¼" A307 Bolts
<b>CMA101</b>	OPA-1362	Projector Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. 39" maximum distance from ceiling to the bottom of the mount using any accessories/mounts (eg RPA/RPM/CMS Pipe) weighing a maximum total of 70lbs. Use (4) ¼" A307 Bolts
<b>CMA105</b>	OPA-1363	Projector Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. 26" maximum distance from ceiling to the bottom of the mount using any accessories/mounts (eg RPA/RPM/CMS Pipe) weighing a maximum total of 70lbs. Use (4) ¼" A307 Bolts
<b>CMA110</b>	OPA-1364	Projector Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. 61" maximum distance from ceiling to the bottom of the mount using any projector accessories/mounts (eg RPA/RPM/CMS Pipe) weighing a maximum total of 70lbs. Use (4) ¼" A307 Bolts
<b>CMA115</b>	OPA-1365	Projector Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. 41" maximum distance from ceiling to the bottom of the mount using any projector accessories/mounts (eg RPA/RPM/CMS Pipe) weighing a maximum total of 70lbs. Use (4) ¼" A307 Bolts
<b>CMA330</b>	OPA-1366	Projector Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. 63" maximum distance from ceiling to the bottom of the mount using any projector accessories/mounts (eg RPA/RPM/CMS Pipe) weighing a maximum total of 70lbs. Use (4) ¼" A307 Bolts

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<b>Projector Mounts</b>			
<b>Product</b>	<b>OPA Number</b>	<b>OPA Description</b>	<b>Comments</b>
<b>CMA345</b>	OPA-1367	Projector Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. 67" maximum distance from ceiling to the bottom of the mount using any projector accessories/mounts (eg RPA/RPM/CMS Pipe) weighing a maximum total of 70lbs. Use (4) ¼" A307 Bolts
<b>CMS440</b>	OPA-2142-07	Projector Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. 18" maximum from CMS440 Plate to the center of gravity of mount using any projector accessories/mounts (eg RPA/RPM/CMS Pipe) weighing a maximum total of 60lbs Use (12) 12ga (0.1") Steel Cable to anchor corners.
<b>CMS445</b>	OPA-2141-07	Projector Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. 18" maximum from CMS440 Plate to the center of gravity of mount using any projector accessories/mounts (eg RPA/RPM/CMS Pipe) weighing a maximum total of 60lbs Use (12) 12ga (0.1") Steel Cable to anchor corners.
<b>SL151</b>	OPA-2446-07	Projector Mount	Product meets 2007 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Maximum total of 110lbs. The maximum load include Lift, Interface Bracket, mounting hardware, and projector. Use bracing as called out on drawing.

## Current OSHPD – Pre-approvals

<b>Floor and Wall Mounted Racks</b>																																
<b>Product</b>	<b>OPA Number</b>	<b>OPA Description</b>	<b>Comments</b>																													
<b>E1 Series Racks</b>	OPA-2580-10 - PENDING-	Racks	<p>Product meets 2010 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Maximum weight, including the Rack, is 1600lbs</p> <p>EXPANSION ANCHORS: (a) ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 8%;">Anchor Diameter</th> <th style="width: 8%;">Concrete Type</th> <th style="width: 8%;">Min. f'c (psi)</th> <th style="width: 12%;">Anchor Type</th> <th style="width: 8%;">ICC Report No.</th> <th style="width: 6%;">Min. Embed.</th> <th style="width: 6%;">Min. Spacing</th> <th style="width: 6%;">Min. Edge Dist.</th> <th style="width: 6%;">Min. Conc. Thickness</th> <th style="width: 8%;">Installation. Torque</th> <th style="width: 12%;">Test Loads</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">5/8"</td> <td style="text-align: center;">Hardrock</td> <td style="text-align: center;">2500</td> <td style="text-align: center;">Hilti Kwik Bolt TZ</td> <td style="text-align: center;">ESR-1917</td> <td style="text-align: center;">3-1/8"</td> <td style="text-align: center;">10"</td> <td style="text-align: center;">18"</td> <td style="text-align: center;">5"</td> <td style="text-align: center;">60 Ft-Lbs</td> <td style="text-align: center;">Direct Pull Tension - 4578 lbs</td> </tr> </tbody> </table>								Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Installation. Torque	Test Loads	5/8"	Hardrock	2500	Hilti Kwik Bolt TZ	ESR-1917	3-1/8"	10"	18"	5"	60 Ft-Lbs	Direct Pull Tension - 4578 lbs
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5/8"	Hardrock	2500	Hilti Kwik Bolt TZ	ESR-1917	3-1/8"	10"	18"	5"	60 Ft-Lbs	Direct Pull Tension - 4578 lbs																						
<b>G1 Series Racks</b>	OPA-2714-10 - PENDING	Racks	<p>Product meets 2010 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Maximum weight, including the Rack, is 2500lbs</p> <p>EXPANSION ANCHORS: (a) ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 8%;">Anchor Diameter</th> <th style="width: 8%;">Concrete Type</th> <th style="width: 8%;">Min. f'c (psi)</th> <th style="width: 12%;">Anchor Type</th> <th style="width: 8%;">ICC Report No.</th> <th style="width: 6%;">Min. Embed.</th> <th style="width: 6%;">Min. Spacing</th> <th style="width: 6%;">Min. Edge Dist.</th> <th style="width: 6%;">Min. Conc. Thickness</th> <th style="width: 8%;">Installation. Torque</th> <th style="width: 12%;">Test Loads</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">5/8"</td> <td style="text-align: center;">Hardrock</td> <td style="text-align: center;">3000</td> <td style="text-align: center;">Hilti Kwik Bolt TZ</td> <td style="text-align: center;">ESR-1917</td> <td style="text-align: center;">4"</td> <td style="text-align: center;">12"</td> <td style="text-align: center;">42"</td> <td style="text-align: center;">6"</td> <td style="text-align: center;">60 Ft-Lbs</td> <td style="text-align: center;">Direct Pull Tension - 4540 lbs</td> </tr> </tbody> </table>								Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Installation. Torque	Test Loads	5/8"	Hardrock	3000	Hilti Kwik Bolt TZ	ESR-1917	4"	12"	42"	6"	60 Ft-Lbs	Direct Pull Tension - 4540 lbs
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5/8"	Hardrock	3000	Hilti Kwik Bolt TZ	ESR-1917	4"	12"	42"	6"	60 Ft-Lbs	Direct Pull Tension - 4540 lbs																						
<b>W2 Series Racks</b>	OPA-2715-10 - PENDING	Racks	<p>Product meets 2010 California Building Code Section 1613A and ASCE 7-05 Sections 12 and 13. Approved for wood, and 16ga steel stud walls. 150lbs maximum weight includes rack.</p>																													