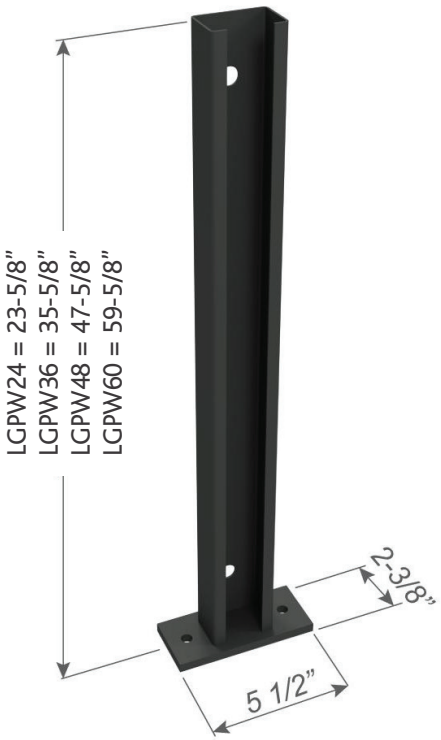
BAILEY PonyWall LITE

PARTIAL WALL FRAMING CONNECTION TO FLOOR

The Bailey PonyWall LITE is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track. This high-performance, reliable, and durable solution for knee wall-to-foundation connections transfers loads through the stud member onto the welded 3/8" base plate which is then anchored to the floor system.



PRODUCT DIMENSIONS

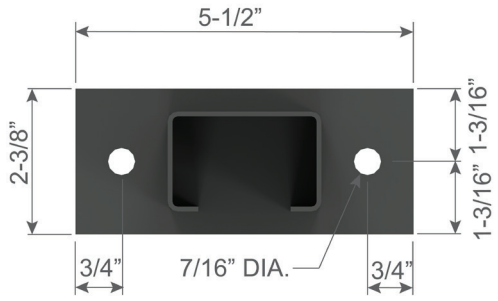
LGPW24 = 23-5/8" tall with 2-3/8" wide x 5-1/2" long plate
LGPW36 = 35-5/8" tall with 2-3/8" wide x 5-1/2" long plate
LGPW48 = 47-5/8" tall with 2-3/8" wide x 5-1/2" long plate
LGPW60 = 59-5/8" tall with 2-3/8" wide x 5-1/2" long plate

MATERIAL SPECIFICATIONS

Plate Material: CSA: G40.21 44W/300W 3/8" thick hot rolled steel
Stud Material: Structural Grade 50 (362S250-97), 50ksi (340 MPa) 16ga (54mil), 0.0566" Design thickness, 0.0538" Min. thickness
Packaging: Individually
ASTM: A36, A653/A653M, A1003/A1003M

INSTALLATION

Install the PonyWall LITE inside the track or directly to the floor structure. Anchor to the floor as designed by EOR. Attach the studs to both flanges of the PonyWall Lite. A minimum of 2-1/2" stud member can be used.



* Bailey PonyWall are distributed by Bailey Metal Products in Canada under permission granted by Clark Dietrich Building Systems.

THE STRENGTH WITHIN

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BAILEY® METAL PRODUCTS LIMITED

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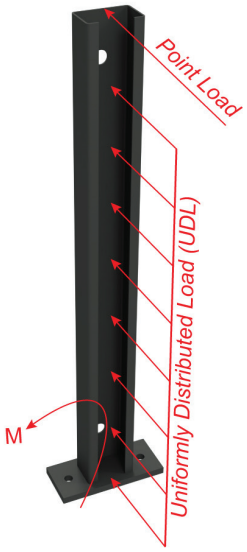
CALGARY 800-665-2013 cal-orders@bmp-group.com
EDMONTON 800-563-1751 edm-orders@bmp-group.com
VANCOUVER 800-818-2666 van-orders@bmp-group.com

MAXIMUM SPECIFIED VALUES

BAILEY PonyWall LITE



GENERAL:

BAILEY PonyWall Lite Member - 362S250-97
Material Thickness: 54 mil (0.0566 in.) design thickness
Material Strength: Structural Grade 50, 50 ksi minimum yield stress
ASTM: A653/A653M, A1003/A1003M

BAILEY PonyWall Lite Base-Plate
Material Thickness: 3/8" minimum thickness
Material Strength: 36 ksi minimum yield stress
ASTM: A36/A36M

Design Standard - CSA S136-2016 (LSD)
North American specification for the design of cold-formed steel structural members.

BAILEY PonyWall Lite Maximum Specified Moment and Loads

Member	PonyWall Height, in. (ft)	Anchors to Structure	Moment (lbs-ft)	Maximum Specified Loads	
				Point Load @ Cantilever End (lbs)	Uniform Distributed Load (lbs/ft)
LGPW24	24 (2)	Designed by Others	355	178	178
LGPW36	36 (3)			118	79
LGPW48	48 (4)			89	44
LGPW60	60 (5)			71	28

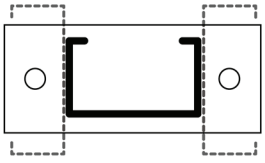
Notes:
1. BAILEY PonyWall Lite is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track.
2. Out-of-plane loads are transferred to the floor system through the base-plate, which is welded to the BAILEY PonyWall Lite member.
3. BAILEY PonyWall Lite may be used in place of standard framing members, or in conjunction with them to frame the wall.
4. For serviceability/deflection calculations of the BAILEY PonyWall Lite, an effective moment of inertia = 0.135 in^4 was used.
5. Maximum specified point load @ cantilever end and maximum specified uniformly distributed load were both calculated using the maximum specified moment.
6. Base connection between the BAILEY PonyWall Lite and support structure is designed by others.
7. It is the responsibility of the designer to properly detail the connections on the contract drawings.

BAILEY PonyWall Lite Maximum Specified Moment w/Anchors

Member	Anchors to Structure	No. of Anchors to Structure	Moment (lbs-ft)
BAILEY PonyWall	3/8" ϕ Hilti Kwik Bolt-3 (2-5/16" Nominal Embedment, 2900 psi Uncracked Concrete)	2	172

Notes:
1. BAILEY PonyWall Lite is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track.
2. Out-of-plane loads are transferred to the floor system through base-plate, which is welded to the BAILEY PonyWall Lite member.
3. BAILEY PonyWall Lite may be used in place of standard framing members, or in conjunction with them to frame the wall.
4. For serviceability/deflection calculations of the BAILEY PonyWall Lite, an effective moment of inertia = 0.135 in^4 was used.
5. Maximum specified moments w/anchors are based on using 3/8" ϕ Hilti Kwik Bolt-3 anchor resistances to concrete.
6. Other anchors may be used to achieve the full BAILEY PonyWall Lite resistance, but must be designed separately.
7. Listed values have not been increased for wind, seismic, or other factors.
8. Hilti is a registered trademark of Hilti Aktiengesellschaft Corporation.
9. It is the designer's responsibility to check for minimum concrete edge distance and minimum concrete thickness when using anchors.
10. It is the responsibility of the designer to properly detail connections on the contract drawings.
11. See Figure-1 for base-plate anchor details.

Figure 1 - PonyWall Base-Plate Anchor Details



Uniformly distributed loads are based on framing members placed on each side of the Pony Wall

(2) Anchors to structure

THE STRENGTH WITHIN

CONCENTRATED LOAD AT FREE END

GENERAL:

PonyWall Lite Member - 362S250-97
Material Thickness: 54 mil (0.0566 in.) design thickness
Material Strength: Structural Grade 50, 50 ksi minimum yield stress
ASTM: A653/A653M, A1003/A1003M

PonyWall Lite Base-Plate
Material Thickness: 3/8" minimum thickness
Material Strength: 36 ksi minimum yield stress

Design Standard - CSA S136-2016 (LSD)
North American specification for the design of cold-formed steel structural members.

(2) Anchors to structure

BAILEY PonyWall Lite Maximum Specified Point Loads

Member	PonyWall Height, in. (ft)	Point Load @ Cantilever End (lbs)			Moment Due to Point Load (lbs-ft)		
		L/240	L/180	P_{max}	L/240	L/180	M_{max}
LGPW24	24 (2)	88	117	178	175	234	355
LGPW36	36 (3)	39	51	118	116	154	355
LGPW48	48 (4)	22	29	89	86	115	355
LGPW60	60 (5)	14	18	71	69	92	355

Notes:
1. BAILEY PonyWall Lite is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track.
2. Out-of-plane loads are transferred to the floor system through base-plate, which is welded to the BAILEY PonyWall Lite member.
3. BAILEY PonyWall Lite may be used in place of standard framing members, or in conjunction with them to frame the wall.
4. For serviceability/deflection calculations of the BAILEY PonyWall Lite, an effective moment of inertia = 0.135 in^4 was used.
5. When both uniform and point loads are applied, the combined loads shall be limited to the maximum specified moment.
6. Base connection between the BAILEY PonyWall Lite and support structure is designed by others.
7. It is the responsibility of the designer to properly detail the connections on the contract drawings.

BAILEY PonyWall Lite Maximum Specified Point Loads w/Anchors

Member	PonyWall Height, in. (ft)	Anchors to Structure	No. of Anchors	Point Load @ Cantilever End (lbs)			Moment Due to Point Load (lbs-ft)		
				L/240	L/180	P_{max}	L/240	L/180	M_{max}
LGPW24	24 (2)	3/8" ϕ Hilti Kwik Bolt-3 (2-5/16" Nominal Embedment, 2900 psi Uncracked Concrete)	2	86	86	86	172	172	172
LGPW36	36 (3)		2	39	51	57	116	154	172
LGPW48	48 (4)		2	22	29	43	86	115	172
LGPW60	60 (5)		2	14	18	34	69	92	172

Notes:
1. BAILEY PonyWall Lite is intended to support out-of-plane loading of cantilevered partial wall systems that are unsupported at the top track.
2. Out-of-plane loads are transferred to the floor system through base-plate, which is welded to the BAILEY PonyWall Lite member.
3. BAILEY PonyWall Lite may be used in place of standard framing members, or in conjunction with them to frame the wall.
4. For serviceability/deflection calculations of the BAILEY PonyWall Lite, an effective moment of inertia = 0.135 in^4 was used.
5. Maximum specified point loads w/anchors are based on using 3/8" ϕ Hilti Kwik Bolt-3 anchor resistances to concrete.
6. Other anchors may be used to achieve the full BAILEY PonyWall Lite resistance, but must be designed separately.
7. Listed values have not been increased for wind, seismic, or other factors.
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9. It is the designer's responsibility to check for minimum concrete edge distance and minimum concrete thickness when using anchors.
10. It is the responsibility of the designer to properly detail connections on the contract drawings.
11. See Figure-1 for base-plate anchor details.

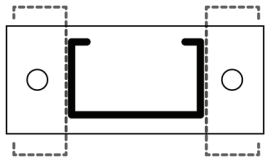
UNIFORMLY DISTRIBUTED LOAD (UDL)

GENERAL:

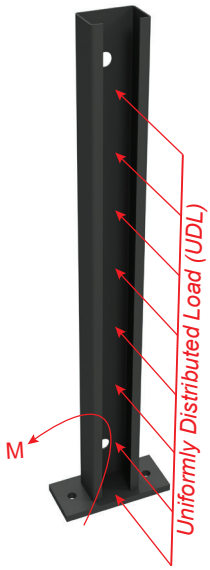
PonyWall Lite Member - 362S250-97
Material Thickness: 54 mil (0.0566 in.) design thickness
Material Strength: Structural Grade 50, 50 ksi minimum yield stress
ASTM: A653/A653M, A1003/A1003M

BAILEY PonyWall Lite Base-Plate
Material Thickness: 1/2" minimum thickness
Material Strength: 36 ksi minimum yield stress
ASTM: A36/A36M

Design Standard - CSA S136-2016 (LSD)
North American specification for the design of cold-formed steel structural members.



Uniformly distributed loads are based on framing members placed on each side of the Pony Wall



BAILEY PonyWall Lite Maximum Specified UDL Loads							
Member	PonyWall Height, in. (ft)	Uniformly Distributed Load (lbs-ft)			Moment Due to UDL Load (lbs-ft)		
		L/240	L/180	P_{max}	L/240	L/180	M_{max}
LGPW24	24 (2)	119	158	178	238	317	355
LGPW36	36 (3)	35	46	79	156	208	355
LGPW48	48 (4)	14	19	44	116	155	355
LGPW60	60 (5)	7	10	28	92	123	355

Notes:
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3. BAILEY PonyWall Lite may be used in place of standard framing members, or in conjunction with them to frame the wall.
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5. When both uniform and point loads are applied, the combined loads shall be limited to the maximum specified moment.
6. Base connection between the BAILEY PonyWall Lite and support structure is designed by others.
7. It is the responsibility of the designer to properly detail the connections on the contract drawings.

BAILEY PonyWall Lite Maximum Specified UDL Loads w/Anchors									
Member	PonyWall Height, in. (ft)	Anchors to Structure	No. of Anchors	Uniformly Distributed Load (lbs-ft)			Moment Due to UDL Load (lbs-ft)		
				L/240	L/180	P_{max}	L/240	L/180	M_{max}
LGPW24	24 (2)	3/8" ϕ Hilti Kwik Bolt-3 (2-5/16" Nominal Embedment, 2900 psi Uncracked Concrete)	2	86	86	86	172	172	172
LGPW36	36 (3)		2	35	38	38	156	172	172
LGPW48	48 (4)		2	14	19	22	116	155	172
LGPW60	60 (5)		2	7	10	14	92	123	172

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