

P E R M I T

CITY OF NAPOLEON
255 W. RIVERVIEW AVE
NAPOLEON, OHIO 43545

DIVISION OF BUILDING & ZONING
PH (419) 592-4010
FAX (419) 599-8393

PERMIT NO: 1106

DATE ISSUED: 05-03-02

ISSUED BY: MRD

JOB LOCATION: 838 E GRACEWAY DR

EST. COST: 500.00

LOT #:

SUBDIVISION NAME:

OWNER: ELLING, KAREN
ADDRESS: 838 E GRACEWAY DR
CSZ: NAPOLEON, OH 43545
PHONE: 419-599-2230

AGENT: SELF
ADDRESS:
CSZ:
PHONE:

USE TYPE - RESIDENTIAL:

OTHER:

ZONING INFORMATION

DIST: LOT DIM: AREA: FYRD: SYRD: RYRD:
MAX HT: # PKG SPACES: # LOADING SP: MAX LOT COV:

BOARD OF ZONING APPEALS:

WORK TYPE - NEW: REPLMNT: ADD'N: ALTER: REMODEL:

WORK INFORMATION

SIZE - LGTH: WIDTH: STORIES: LIVING AREA SF:
GARAGE AREA SF: HEIGHT: BLDG VOL DEMO PERMIT:

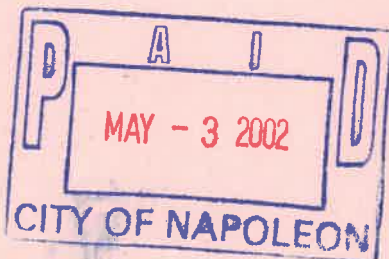
WORK DESCRIPTION
NEW DECK

FEE DESCRIPTION	PAID DATE	FEE AMOUNT DUE
BUILDING PERMIT		9.00

TOTAL FEES DUE 9.00

DATE

APPLICANT SIGNATURE



CITY OF NAPOLEON OHIO PERMIT APPLICATION

THIS APPLICATION IS FOR RESIDENTIAL CONSTRUCTION INCLUDING BUILDING, ELECTRICAL, PLUMBING, MECHANICAL, DEMOLITION, REMODELING.

DATE _____ JOB LOCATION _____

LOT # _____ SUBDIVISION NAME _____

X OWNER Karen ELLing PHONE 419 599-2230

X OWNER ADDRESS 838 E. Graceway CITY Napoleon ZIP 43545

X CONTRACTOR Chris ELLing (my son) PHONE 419-599-2230

X CONTRACTOR ADDRESS 838 E. Graceway CITY Napoleon ZIP 43545

CONTRACTOR FAX # _____ CELL PHONE (Opt.) _____

X DESCRIPTION OF WORK TO BE PERFORMED: Deck

X ESTIMATED COST OF WORK TO BE PERFORMED: \$500.00

WORK INFORMATION

BUILDING: Basement Floor Area _____ Sq. Ft. 1st Story Living Area _____ Sq. Ft.

2nd Floor Living Area _____ Sq. Ft. Garage Floor Area _____ Sq. Ft.

BUILDING SIZE: Length _____ Width _____ Stories _____ Height _____ DEMO VOL _____

Masonry Contractor _____ Phone _____ Fax _____
Address _____ City _____ St _____ Zip _____

Electrical Contractor _____ Phone _____ Fax _____
Address _____ City _____ St _____ Zip _____

Plumbing Contractor _____ Phone _____ Fax _____
Address _____ City _____ St _____ Zip _____

Heating Contractor _____ Phone _____ Fax _____
Address _____ City _____ St _____ Zip _____

Insulation Contractor _____ Phone _____ Fax _____
Address _____ City _____ St _____ Zip _____

Other Contractor attach information.

ZONING INFORMATION (to be completed by City): District _____ Lot Dimensions _____
Lot Area _____ FRSB _____ SYSB _____ RYSB _____ Max Ht _____ ft Max Cov _____ %

I by signing below agree to comply with all applicable City of Napoleon Codes & Ordinances while performing the work herein described. I understand that all work for which a permit is issued is required to be approved by the building inspector of the City of Napoleon.

X Applicant Signature _____ Date _____

From: kmccarthy

To: bdamman

Urgent

Date/Time: 5/17/2002 - 4:32:56 PM

Pink Notes Plus™

Subject: _____

Name: Karen Elling

Company: _____

Account #: _____

Phone #: 599-2230

Ext.: _____

Fax #: _____



Telephoned	<input checked="" type="checkbox"/>	Please Call	<input type="checkbox"/>
Came to see you	<input type="checkbox"/>	Will call again	<input type="checkbox"/>
Returned your call	<input type="checkbox"/>	Wants to see you	<input type="checkbox"/>

Their deck is ready for inspection. 838 E. Graceway Dr.

Handwritten: 5-17-02
GMD

~~Gary Reese~~

~~1043 N. Perry St.~~

P E R M I T

CITY OF NAPOLEON
255 W. RIVERVIEW AVE
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DIVISION OF BUILDING & ZONING
PH (419) 592-4010
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PERMIT NO.: 1106

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EST. COST: 500.00

LOT #:

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USE TYPE - RESIDENTIAL:

OTHER:

ZONING INFORMATION

DIST: LOT DIM: AREA: FYRD: SYRD: RYRD:
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BOARD OF ZONING APPEALS:

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WORK INFORMATION

SIZE - (LTH WIDTH STORIES: LIVING AREA SF)
GARAGE AREA SF: HEIGHT: BLDG VOL DEMO PERMIT:

WORK DESCRIPTION
NEW DECK

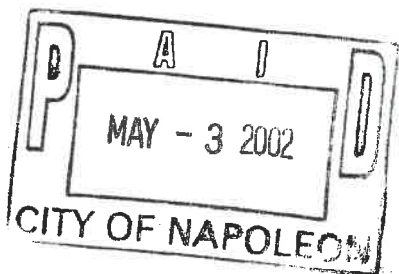
NO SITE PLAN

REF DESCRIPTION PAID DATE FEE AMOUNT DUE
BUILDING PERMIT 9.00

TOTAL FEES DUE 9.00

GATE

APPLICANT SIGNATURE



LOWE'S
(419) 782-9000

-SALE-
SALES #: S0231JB2 5541 04-30-02

34664	2X6X8 .40 TOP CHOI	50.14
	17 @ 3.42	
61570	10024 DECK SCREW GALV PH 1	3.79
34941	2X6X16 .40 TOP CHOI	16.76
	2 @ 8.38	
34929	2X6X12 .40 TOP CHOI	10.96
	2 @ 5.48	
78283	PC4709 LAWN POND-CASCADE WA	39.74
98884	PT LATTICE ECONOMY 4	4.98
60932	2X4X8 .40 TOP CHOI	6.75
	3 @ 2.25	
7951	2"X 2"X 42" BALUSTER	9.90
	10 @ 0.99	
52416	4X4X8 TOP CHOICE TRE	7.78
	2 @ 3.89	

INVOICE 36840 SUBTOTAL: 158.00

-SALE-
SALES #: S0231BS2 5541 04-30-02

19070	DEK BLOCK 12	79.36
	16 @ 4.96	
	[PL]	
34664	2X6X8 .40 TOP CHOI	51.30
	15 @ 3.42	
	[PL]	

INVOICE 81729 SUBTOTAL: 130.66

INVOICE 36840	SUBTOTAL:	158.00
INVOICE 81729	SUBTOTAL:	130.66
	SUBTOTAL:	289.46
	TAX 32350:	17.37

BALANCE DUE: 306.83

CASH:	7.00
MERCH/GIFT CARDS:	100.00
MERCH/GIFT CARDS:	100.00
MERCH/GIFT CARDS:	100.00
CHANGE:	0.17

MERCH/GIFT CARD 2136 AUTHCODE 000000

BEGIN BAL	TRANSACTION AMT	ENDING BAL
100.00	100.00	0.00

MERCH/GIFT CARD 2102 AUTHCODE 000000

BEGIN BAL	TRANSACTION AMT	ENDING BAL
100.00	100.00	0.00

MERCH/GIFT CARD 2110 AUTHCODE 000000

BEGIN BAL	TRANSACTION AMT	ENDING BAL
100.00	100.00	0.00

0231 TERMINAL: 36 04/30/02 20:47:01

LOWE'S
(419) 782-9000

-SALE-
SALES #: S0231DR1 235018 04-15-02

66901	6' TRU-FIT RAIL S	191.76
	6 @ 31.96	
51854	8X2 1/2" PRMEGARD	14.97
102232	POND LINER REPAIR	9.97
110633	UNIVERSAL BRACKET	5.97
4643	3-STEP STRINGER #	13.90
	2 @ 6.95	
2491	STEP TREAD 2X12X3	8.98

SUBTOTAL: 245.55

TAX 32350: 14.74

INVOICE 28829 TOTAL: 260.29

BALANCE DUE: 260.29

M/C: 260.29

M/C XXXXXXXXXXXX1404 1004 074912
AMOUNT: 260.29

0231 TERMINAL: 28 04/15/02 20:40:54

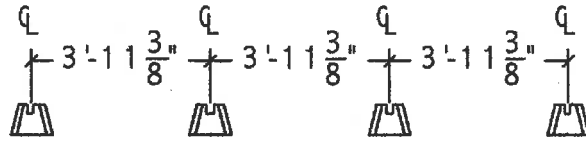
THANK YOU CHRISTOPHE L ELLING
FOR SHOPPING LOWE'S

RECEIPT REQUIRED FOR CASH REFUND.
CHECK PURCHASE REFUNDS REQUIRE
15 DAY WAIT PERIOD FOR CASH BACK.
STORE MGR: RON MCINTOSH

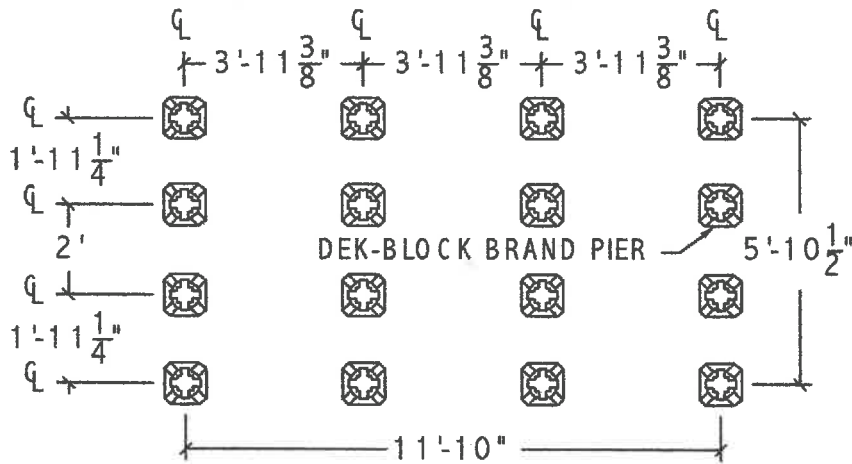
WE HAVE THE LOWEST PRICES, GUARANTEED!
IF YOU FIND A LOWER PRICE, WE WILL
BEAT IT BY 10%. SEE STORE FOR DETAILS.

lattice work around bottom of deck

about 14" from ground to top of deck railing on three sides plus steps



1 DEK-BLOCK LAYOUT SECTION
SCALE: 1/4" = 1'-0"



2 DEK-BLOCK LAYOUT PLAN
SCALE: 1/4" = 1'-0"

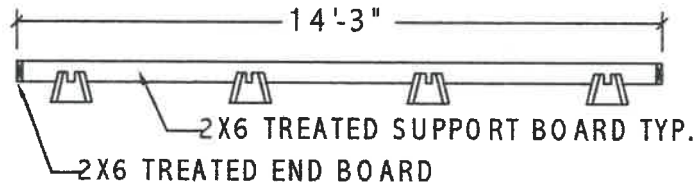


**Floating
Foundation
Deck Systems**

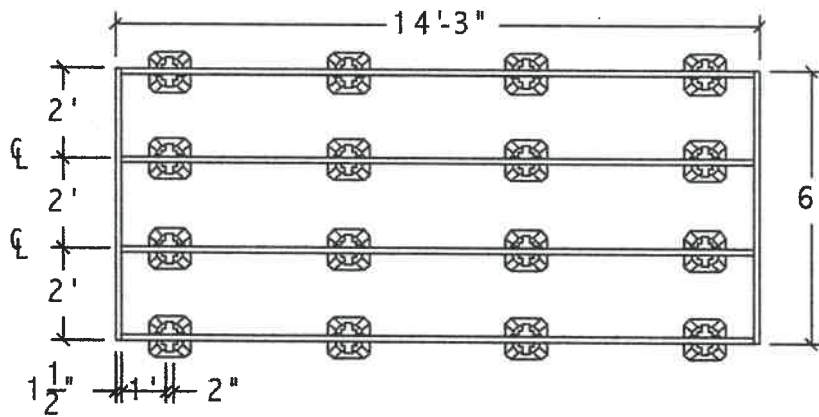
6' x 14'
www.DECKPLANS.com

DEKBRANDS
P.O. BOX 14804
MPLS., MN 55414
(612) 331-4755

Live Technical Support
1-800-664-2705
7 Days a Week - 365 Days a Year
(5:00 am - 9:00 pm CST)



1 FRAMING SECTION
SCALE: 1/4" = 1' - 0"



2 FRAMING PLAN
SCALE: 1/4" = 1' - 0"

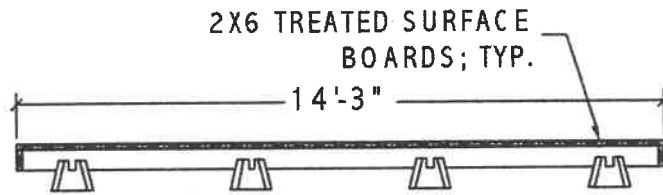


**Floating
Foundation
Deck Systems**

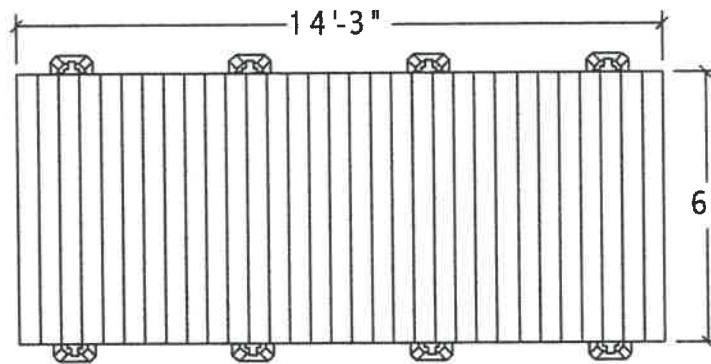
6' x 14'
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1 DECKING SECTION
SCALE: 1/4" = 1'-0"



2 DECKING PLAN
SCALE: 1/4" = 1'-0"



**Floating
Foundation
Deck Systems**

6' x 14'
www.DECKPLANS.com

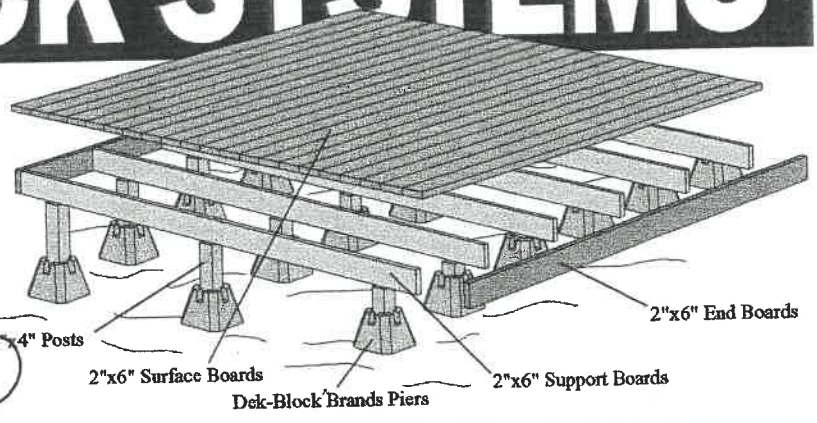
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DECK SYSTEMS

6'x14'
Rectangular
Deck

17



2 3/2
1 2
T 5
+ 5
3 2

		#	@	Per	Total
<input checked="" type="checkbox"/>	Material List				
(6)	Dek-Blocks <i>14070</i>			\$ <u>4.76</u>	\$ <u>79.36</u>
<input type="checkbox"/>	Dek-Block Brand Piers	16	@		
	Support Boards				
X	14' - 2"x6" Treated Lumber	4	@	\$ <u>6.27</u>	\$ _____
X	End Boards 12' - 2"x6" Treated Lumber	1	@	\$ <u>5.48</u>	\$ _____
(15)	Surface Boards <i>34664</i> 8'-2"x6" Treated Lumber	32	@	\$ <u>3.42</u>	\$ <u>51.30</u>
<input type="checkbox"/>	12' - 2"x6" Treated Lumber	16	@	\$ 5.48	\$ _____
	Detailing				
X	<input checked="" type="checkbox"/> 2 1/2" Galvanized Deck Screws; lbs.	4	@	\$ _____	\$ _____
	<input type="checkbox"/> Stain or Sealer; gals.	2	@	\$ _____	\$ _____
	Optional Posts for 30" Elevation				
X	8' - 4"x4" Treated Posts <i>3</i>	3	@	\$ <u>3.89</u>	\$ _____
X	<i>1 3/8 x 1 3/8 - rail posts for steps - 10</i>	10	@	\$ <u>4.98</u>	\$ _____
X	<i>8' - 2' x 4' lattice work 1</i>	1	@	\$ <u>4.98</u>	\$ _____
X	<i>8' - 2' x 4"</i>			\$ <u>2.25</u>	\$ _____
X	<i>1" - Galvanized screws for lattice work</i>			\$ <u>3.89</u>	\$ _____

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JOB DEK-BLOCK PIERS
 SHEET NO 2 OF _____
 CALCULATED BY DRI DATE 7/16/00
 CHECKED BY _____ DATE _____
 SCALE FROST HEAVL ANALYSIS

ASSUME THAT CENTRE SUPPORT SETTLES 1/2"

JOIST THEN SPANS 9.83 FT

$$M = .13 \times 9.83^2 / 8 = 1.57 \text{ k} \quad f_b = 1.57 \times 12 / 7.56 = 2.49 \text{ ksi}$$

$$\Delta = \frac{5 \times .13 \times 9.83^3 \times 12^3}{384 \times 900 \times 25} = 1.51 \text{ in}$$

AS SUPPORT SETTLES OR HEAVES, THE DECK TIMBERS WILL DEFLECT TO FOLLOW THE SUPPORT

$$\Delta = \frac{1}{2} \text{ in} = \frac{P l^3}{48 E I} = \frac{P \times 9.83^3 \times 12^3}{48 \times 900 \times 25}$$

$$P = .262 \text{ k}$$



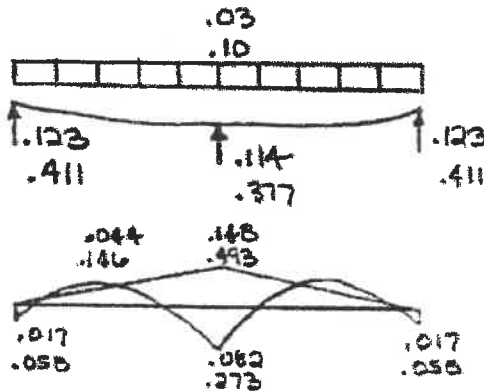
WITH CENTRE SUPPORT DEFLECTED 1/2", THE REACTIONS & STRESSES ARE AS SHOWN

@ 1/2" SETTLEMENT

$$M = (.493 \times .146) - (.082 \times .273)$$

$$= .286$$

$$f_b = .286 \times 12 / 7.56 = .454 \text{ ksi}$$

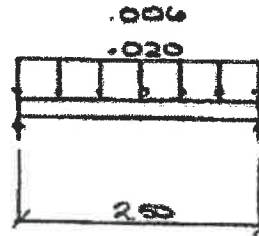


JOB DEK-BLOCK PIERS
 SHEET NO. 3 OF _____
 CALCULATED BY DRI DATE 7/16/00
 CHECKED BY _____ DATE _____
 SCALE FROST HEAVE ANALYSIS

CHECK DECK BOARDS
 BOARDS @ 6" O.C.

DL = 12 PSF / 2 = 6 PLF
 LL = 40 PSF / 2 = 20 PLF

$M = \frac{.026 \times 2.50^2}{8} = .0203$
 $S = \frac{6.5 \times 1.5^2}{6} = 2.07 \quad I = \frac{3.5 \times 1.5^3}{12} = 1.55$
 $f_b = .0203 \times 12 / 2.07 = .118 \text{ KSI O.K.}$



$\Delta = \frac{.026 \times 6 + 2.50^4 \times 12^3}{384 \times 900 \times 1.55} = .016$

ASSUME 1/2" SETTLEMENT

$\Delta = \frac{.023 \times 5 \times 1.5 \times 12^3}{384 \times 900 \times 1.55} = .232$

$M = \frac{.026 \times 5^2}{8} = .0813 \text{ K-in}$
 $f_b = .0813 \times 12 / 2.07 = .4713$

DECK BOARDS ARE STIFF ENOUGH TO SPAN OVER
 5'0" & HAVE STRENGTH TO SPAN.

AE ASSOCIATES, INC.
*Engineering Design * Project & Construction Management*

BUILDING AND SPECIAL INSPECTIONS

January 16, 1997

To whom It May Concern:

Subject: DEKBRANDS Deck Systems-Building Code Reviews

AE ASSOCIATES, Inc. has been retained to consider the DEKBrands Deck System. Included in this process was structural design analysis of components that make up the system, including the Dek-Block Pier footing members, the spacing of these blocks, deck wood stringers, joists and surface decking.

In order to make these design analyses it was reasonable to use established design standards for vertical loading and ground support, as provided for in the various Building Codes adopted by all states and other municipalities. Where these Codes did not provide for specific "deck" loading criteria residential interior loads were used. All Code revisions since 1985 have been reviewed to determine that all current provisions were being complied with. These standards are summarized below, by Code and the most applicable Code chapter or section:

Council of American Building Officials (CABO)

Buildings - section 202

Design Criteria - sections 301.3, 301.4, 301.6, Table 301.4, 315.3

Foundations - sections 401.2, Table 401.4.1, Table 502.3.1a

Uniform Building Code (ICBO)

Foundations - chapter 18, sections 1803.2, 1804.1.1,

1806.1, 1806.3, 1806.5, 1806.7.2.3, 1806.7.4, Table 18.1.A

Structural forces - chapter 16, sections 1602, 1603.3.1,

1604.1, 1604.2, 1604.3, 1606, 1607, 1608, Table 16-A

Size and Height - chapter 5, section 509.1, 509.2, 509.3,

chapter I, section 106, 106.2(2)(2.1), 106.2(2)(2.7)

Standard Building Code (SBCCI)

Egress - Chapter 10, section 1014.1.1, 1014.1.2, 1015.1
Structural Loads - chapter 16, section 1601.2.1, 1601.2.2,
1601.5, 1603.1, 1604.1, Table 1604.1, 1604.3
Foundations - chapter 18, section 1804.3.3.1, 1804.4.1,
chapter 23, section 2303.2.1, 2303.2.2
Floor Construction - Wood - chapter 23, section 2301.1.2,
2301.2.1, 2301.2.5, 2301.3, 2303, 2304.2, 2306.1, 2307
(general)

Building Officials and Code Administrators International (BOCA)

Loadings - section 1606.1, 1606.2, table 1606, 1606.3
Footings - section 1807.1, 1810.3.1

In addition the "Dwelling Construction under the Uniform Building Code" handbook was consulted, particularly chapters on framing, foundations and tables on wood member working stresses.

The subject deck footing and structural systems were designed to a minimum standard of 40 pounds per square foot of LIVE LOAD, a CONCENTRATED LOAD of 300 pounds, using a DEAD LOAD of 12 pounds per square foot. All Code requirements considered appropriate are complied with using these standard. These are also considered conservative load ratings since higher live load values (up to 75 pounds per square foot) could be used under conditions where soil and wood member strength ratings other than "minimum Code" values used.

We certify that, after review of all applicable current Codes, all systems and components analyzed by this company meet or exceed Code standards for uniform and concentrated loadings plus soil bearing conditions, when these products are installed in accordance with the instructions. Local Building Officials may apply requirements based on specific conditions of their municipality, requiring the consumer to purchase a building permit for the installation.

Respectfully submitted,

Robert C. Bowser, P. E.

2920 S. W. Luradel Lane * Portland, Oregon 97219 * FAX (503) 977-
2021
Portland (503) 977-3622 * Vancouver (360) 253-4318 * Mobile (503)
784-3443



.....

		Job Name	S.O. No		
			EST. 90-14		
Description					
REVIEW - PRO-SHOP DECK SYSTEMS					
Design By:	Date	Checked By	Date	Approved	Date 4/6/90

REF: PROSHOP PLANS FOR STANDARDIZED DECKS
(ATTACHED)



ISSUE:

IS 2X6 (TYP.) DECKING OK, RELATIVE TO STRESS
4 DEFLECTION, WHEN PLACED ON JOISTS AS MUCH AS
30" O.C. (I.E. SPAN OF 28 1/2")

LOADING PATTERNS:

- 40 PSF L.L - UNIFORM
- 300 LB CONCENTRATED LOAD ON 12" X 12" AREA

ACCEPTANCE CRITERIA:

- STRESS, BENDING (EXTREME FIBER) <
- DEFLECTION L/E > 360
- BOTH ARE ACCEPTED LEVELS FROM UBC

ASSUMPTIONS:

STANDARD & BETTER LUMBER INSTALLED TO
REASONABLE
CONSTRUCTION QUALITY. USE SUPPORTED EDGES
SINCE SOME DECK BOARD ENDS WILL BE INSTALED
AT JOISTS.
1/2" MAXIMUM GAP BETWEEN BOARDS

FROM UBC:

MIN. $f_b = 475$ psi (LOWEST IN UBC)
MIN. $E = 700,000$ psi (LOWEST IN UBC)*

SECTIONS:

SECT MODS = $th^3/6$ (2X6)
= 2.1 in³
I = 1.55 in

ALSO:

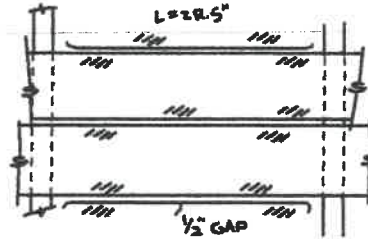
L = 28.5"
D.L. ~ 2.4 LBS/FT OF 2.6

L.L.

40#/FT \Rightarrow 20#/FT OF 2X6

300#/12" \Rightarrow 150# Per 12" of 2X6

D.L. = 2.4 #/FT



STRESSES:

UNIFORM LOADING: (ONE 2X6)

$$17 = WL/8$$

$$= 190 \text{ IN-LB}$$

$$W = (20 + 2.4) 28.5"/12"$$

$$= 53.2 \#$$

$$t\beta = 190 \text{ IN-LB}/2.1 \text{ IN}^3$$

$$= 90 \text{ psi} \ll 475 \text{ psi OK!}$$

CONC. LOADING:

SEE ROARK, 5th P. 107, CA 14

$$a = 8.25"$$

$$c = 12"$$

$$d = 14.25"$$

$$W \sim 154\#$$

$$\text{MAX. } M = W d/L (a + cd/2L)$$

$$= 866 \text{ in-lb}$$

$$t\beta = 413 \text{ psi} \ll 475 \text{ psi OK!}$$

DEFLECTIONS:

UNIFORM LOADING:

$$E = 5/384 WL^3/EI \text{ LET } E=900,000 \text{ psi}$$

$$= .012" \Rightarrow L/E = 2479 \gg 360 \text{ OK!}$$

CONC. LOADING:

$$W = 154\#$$

$$E = 1/48EI \{ 8R1 (X^3 - L^2X) + WX [8d^3/L - 2bc^2/L + c^3/L + 2c^2] - 2W(x-a)/c \}$$

$$\text{WHERE: } X = L/2 \quad R1 = W/2$$

$$E = 1/48EI \{ -WL^3/2 + WL/2 (1077.5) - 2W(108) \}$$

$$= .023"$$

$$L/E = 1245 \gg 360 \text{ OK!}$$

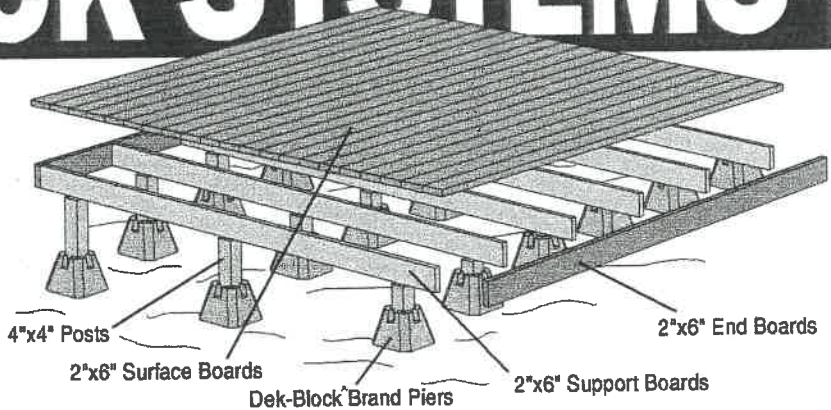
2920 S. W. Luradel Lane * Portland, Oregon 97219 * FAX (503)
977-2021

Portland (503) 977-3622 * Vancouver (360) 253-4318 * Mobile
(503) 784-3443

DECK SYSTEMS

BUILDING A DECK IS AS EASY AS 1-2-3!

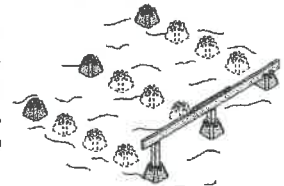
Position the Dek-Block piers on the ground - Level the ground under each pier. The slot will be used to hold either horizontal 2"x6" deck support boards or vertical 4"x4" posts using 4"x4" posts of different lengths will level out uneven or sloping ground. (Note: For decks larger than 16', two or more 2"x6" support boards are joined end-to-end by nailing perforated metal truss to both sides of each joint. Make sure that a Dek-Block pier is centered directly under each support board joint.)



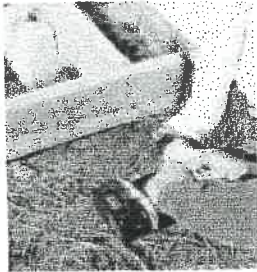
How to Level or Elevate Your Deck:

Determine the height of deck

Locate the highest corner Dek-Block pier. Position a 2"x6" support board in or above Dek-Block pier to desired height. Measure the distance from the bottom of the 2"x6" support board to the pocket of the Dek-Block pier. Cut 4"x4" post to length and position 2"x6" support board atop.

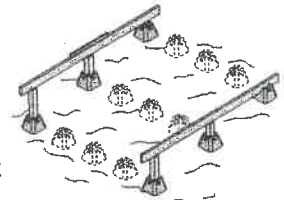


Place 2"x6" support boards directly in Dek-Block piers - The slotted top will hold horizontal 2"x6" deck support boards securely without bolts, brackets, or hassles. Square the support boards by measuring diagonally from corner to corner. Adjust the position of outside boards until the diagonal distance between opposite corners are EQUAL. Screw a 2"x6" end boards across one open end, adjusting all inside support boards so they butt flush against the end board, then screw the second end board across the other open end.



Level 2"x6" support board

Using a level as a guide, position the 2"x6" support board above the last block of the row. Measure the distance from the bottom of the 2"x6" support board to the pocket of the Dek-Block pier. Cut 4"x4" post to length and position 2"x6" support board atop. Repeat this process at the furthest row using the same height.



Square up 2"x6" support boards

Attach 2"x6" end boards to the support boards using two 2 1/2" galvanized deck screws at each end. Using a level as a guide, insure that both end boards are level. Adjust outside support boards until diagonal distance between opposite corners is EQUAL. Attach 2"x6" support boards to the 4"x4" posts using two 2 1/2" galvanized decks screws from each side.



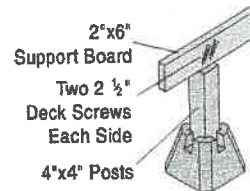
Install the 2"x6" surface boards -

Put all surface boards in position on top of 2"x6" support boards. Use the width of a deck screw as a guide for spacing surface boards. Screw surface boards directly to 2"x6" support boards using two 2 1/2" galv. deck screws per support board underneath. That's all there is to it!



Level remaining 2"x6" support boards

Position and attach 2"x6" support boards to the end boards using two 2 1/2" galvanized deck screws at each end. Position Dek-Block piers beneath the support boards. Measure distance from the bottom of the 2"x6" support boards to the pocket of the Dek-Block piers. Cut 4"x4" posts to length and position between support boards and Dek-Block piers. Repeat until all 4"x4" posts are cut and positioned. Secure all support boards and 4"x4" posts.



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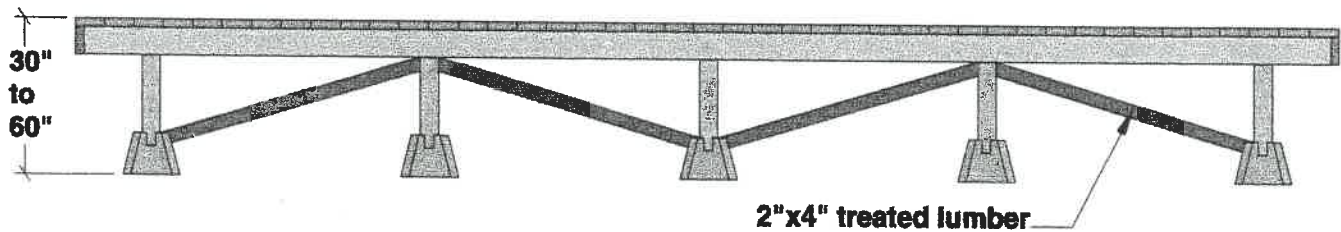
100's of FREE Deck Plans at:
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DECK SYSTEMS

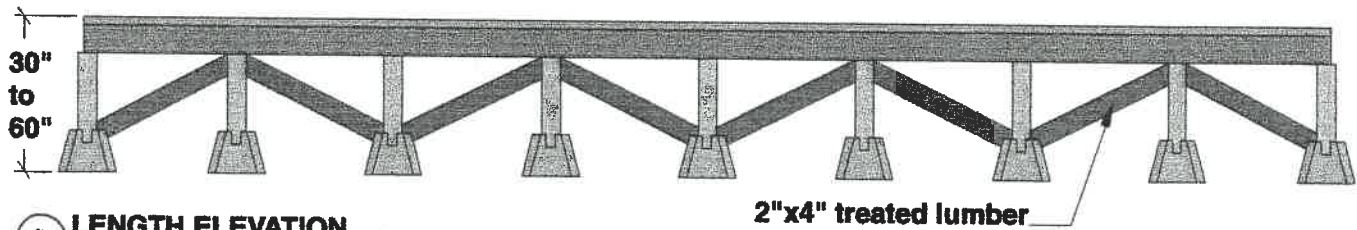
DECKS: ABOVE 30" & BELOW 60"

CROSS-BRACING IS REQUIRED.

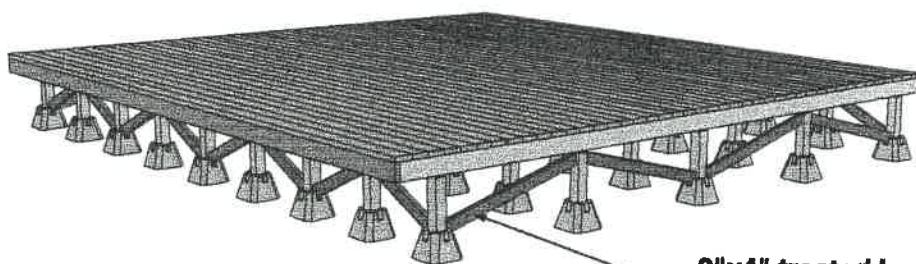
Attach a 2"x4" treated board diagonally between the 4"x4" posts of the deck. Run only along the outside perimeter of deck.



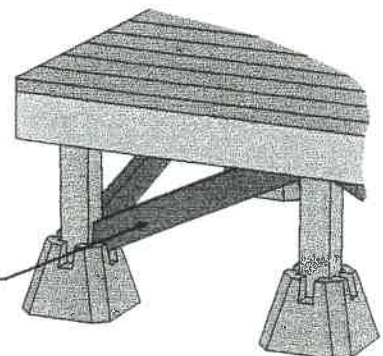
1 WIDTH ELEVATION



2 LENGTH ELEVATION



3 PERSPECTIVE



4 PERSPECTIVE

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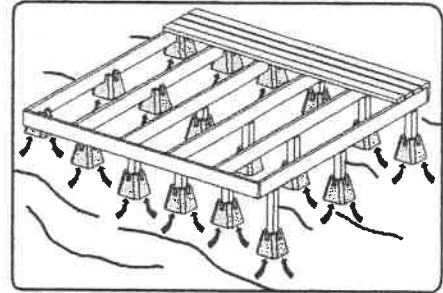
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DECK SYSTEMS

Frequently Asked Questions

How does frost heave effect Dek-Block Floating Foundation Deck Systems?

The Dek-Block pier sits on top of the ground moving up and down just as your driveway or sidewalk would. The structure is part of a system and is designed to accommodate the frost movement.



Will my deck move sideways?

No. When frost heave occurs, the forces in the ground have nowhere to go except up. The deck will move slightly up and down, but not from side to side.

Will my deck sink?

Used even on poor soil conditions, your deck will not sink. Floating Foundation Deck Systems are designed as weight distribution system, spreading the weight **EVENLY** across the ground.



How do I determine my soil conditions?

There is a simple non-technical method to determine if your soil is suitable for a Floating Foundation Deck System: the shoe print test. If a person's shoes sink into the ground while they are walking, the soil may not be suitable.



How strong is the Dek-Block Floating Foundation Deck System?

When built according to DekBrands deck plans, Dek-Block Floating Foundation decks far exceed the minimum structural requirements for construction. They are **STRONG**, **DURABLE**, and **SAFE**. Each deck is designed for 40 lbs per square foot live load (people, furniture, etc.) and 12 lbs per square foot dead load (deck materials).

Do building departments accept Dek-Block Floating Foundation decks?

DekBrands Floating Foundation Deck Systems have been designed in accordance with all major building codes. Most of the Midwest and Northeastern States have adopted a form of the Building Officials Code Administrators (BOCA) building code. The Mid-Atlantic States have adopted the Council of American Building Officials (CABO) building code. Both of these codes state that foundations must extend below the frost line "except where erected upon solid rock or otherwise protected from frost". Some states have adapted the newer International Building Code which does not require building permits for structures of four hundred square feet or less. When permits are required, they will normally be issued based on DekBrands deck plans.



How do I get my DekBrands deck plans and obtain a building permit?

Download the architectural deck plans and building code package from www.deckplans.com or call us at 1-800-664-2705 (5:00 am to 9:00 pm CST, 7 days a week) and we will mail or fax you a package. Take these plans and code package to your local building department for approval.

What do I do if my local Building Department has further questions about Dek-Block Floating Foundations decks?

DekBrands is available to answer any questions they may have, at 1-800-664-2705. DekBrands also has engineers available if there are additional, specific issues.



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