



Crawl Space Encapsulation/Sealed Crawl Spaces Process

Our Methodology

Many building professionals now recognize that building an unventilated crawlspace (or closing vents after the crawlspace dries out following construction) is the best option in homes using proper moisture control and exterior drainage techniques.

If you have or will have an unventilated crawlspace, the best approach is to seal and insulate the foundation walls rather than the floor between the crawlspace and the house. This strategy has the advantage of keeping piping and ductwork within the conditioned volume of the house so these building components don't require insulation for energy efficiency or protection against freezing. It's best to build and maintain an airtight, insulated access door in the perimeter wall.

Sealed and insulated crawl spaces perform better in terms of safety and health (pest control), comfort (warm floors, uniform temperatures), durability (moisture) and energy consumption than passively vented crawl spaces. Crawl spaces should be dry so that they are less likely to have pests, termites and mold. A dry crawl space is therefore safer and healthier than a wet crawl space. Ground cover prevents evaporation of ground moisture into the crawl space.

However, vented crawl spaces experience serious moisture and mold problems that cost builders and the homeowner significant resources to repair. Also, wintertime ventilation makes crawl spaces colder and increases the heat loss from the home – venting crawl spaces wastes energy, and can lead to freezing pipes and uncomfortable floors.

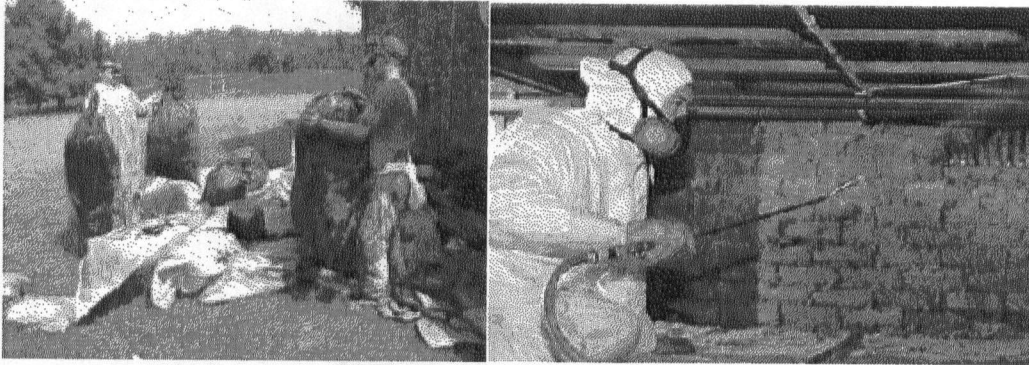
In short, crawlspace vents should be sealed, crawlspace walls insulated, rim joists and spaces where air may leak should be sealed, and the ground should have a continuous sealed cover such as taped polyethylene.

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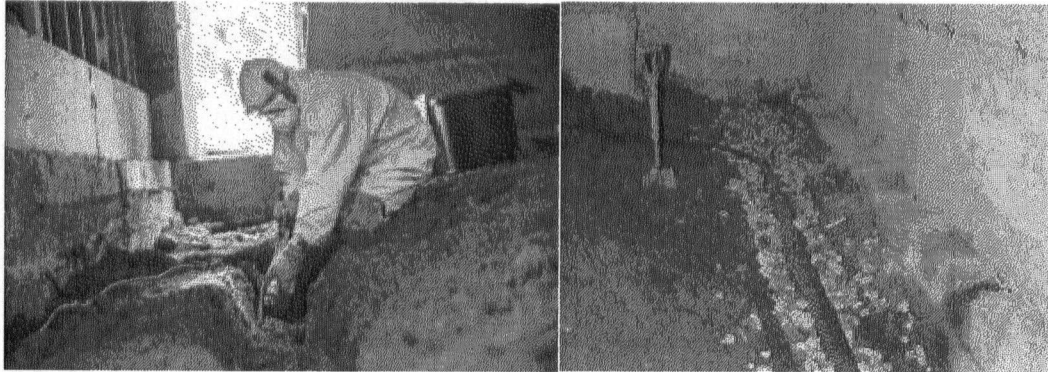
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Our Encapsulation/ Sealed Crawl Space Process

- 1) Remove any crawl space debris such as old insulation and vapor barrier, and perform microbial remediation of visible fungal growth.



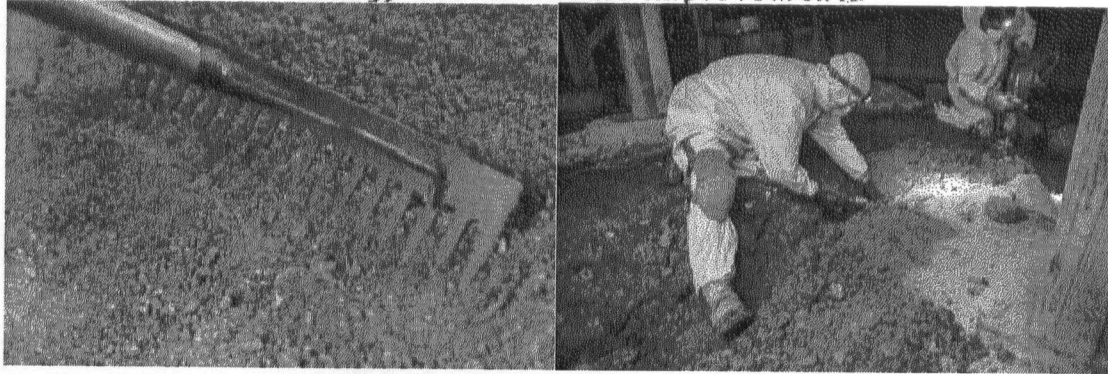
- 2) Dig drainage trench and install perforated pipe and gravel



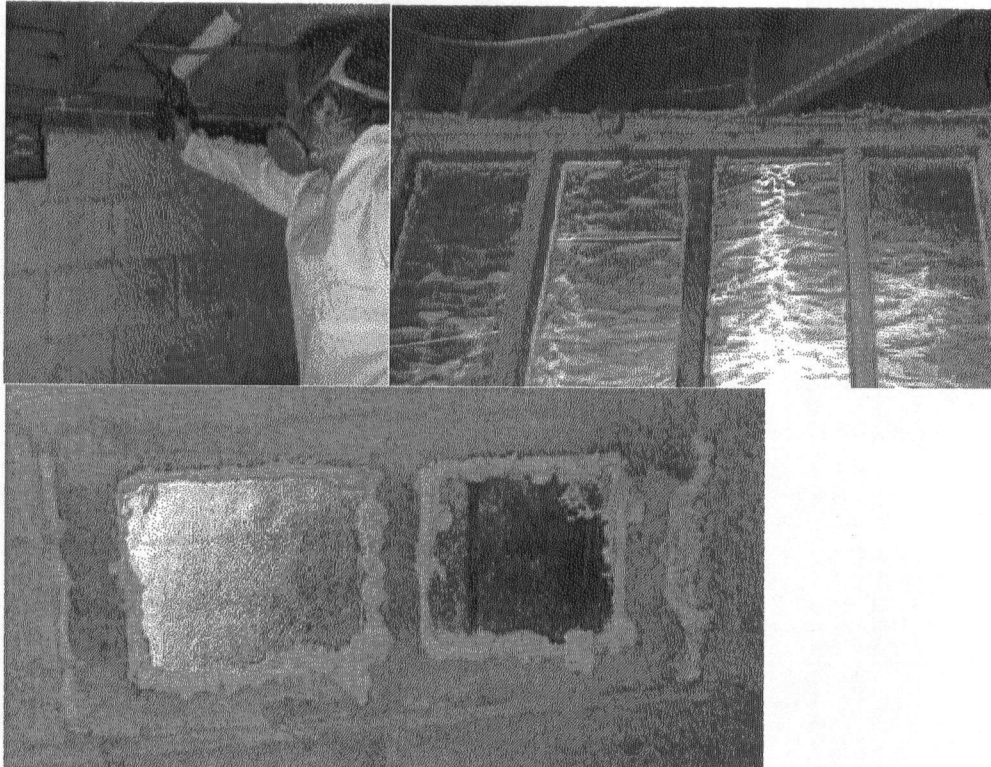
- 3) Grade soil to smooth out major hills and valleys on the crawl space floor.

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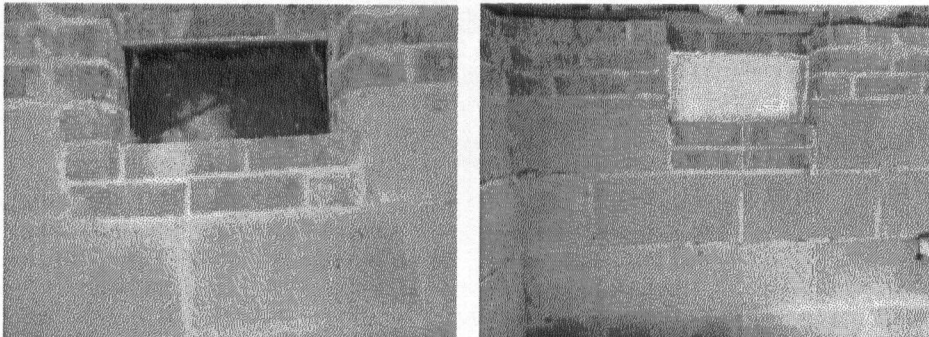
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4) Fire block foam seal penetrations in sub floor and foundation wall. Then foam seal the sill plate, band and rim joists.



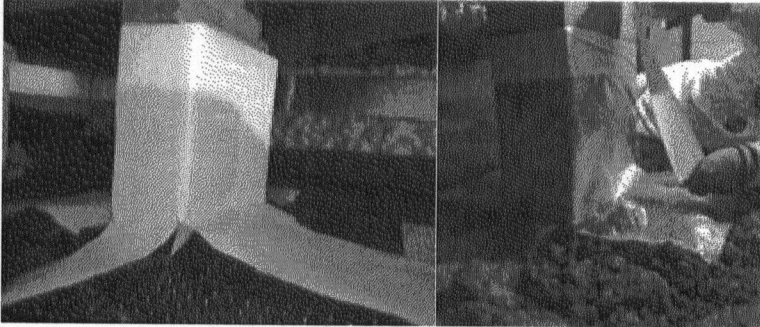
5) Close and seal foundation vents



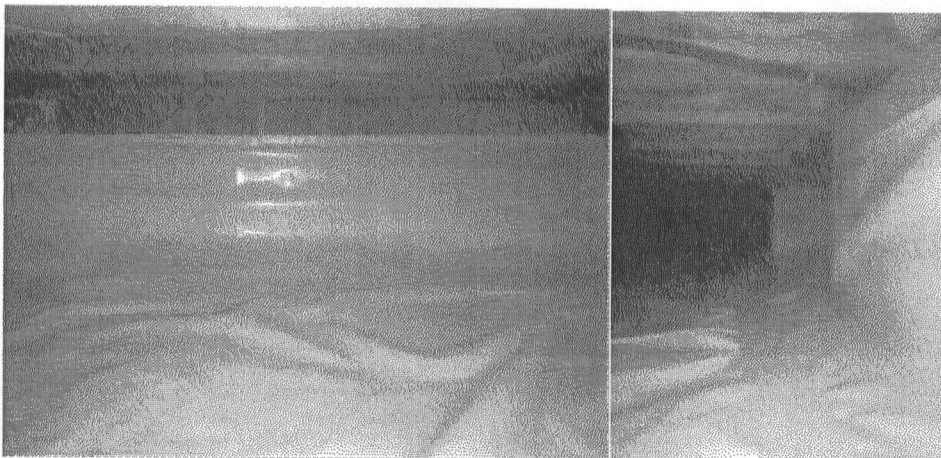
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6) Wrap piers w/20 ml poly (sealed and taped)



7) Secure and seal vapor barrier to at least 10" of foundation wall



8) Insulate foundation walls with r10 rigid insulation (mechanically fastened to foundation walls with 1.5" bolts). Seal top of foam board to foundation wall w/bead of foam sealant and leave a 3" gap at the top of all wallboard for termite inspection.



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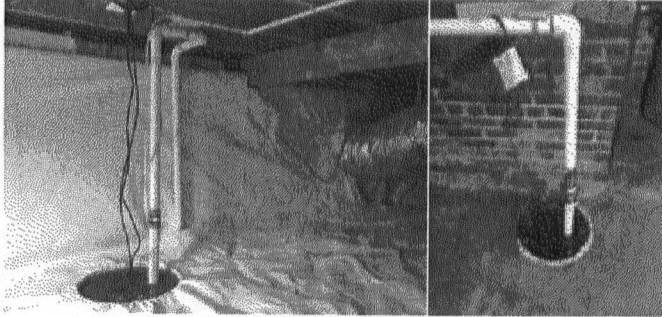
9) Apply and seal an overlapping continuous ground vapor barrier, sealing to both the wrapped piers and wall vapor barrier.



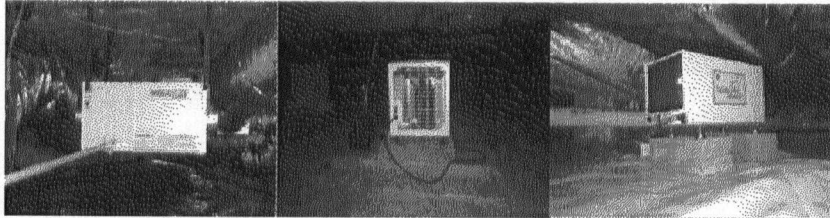
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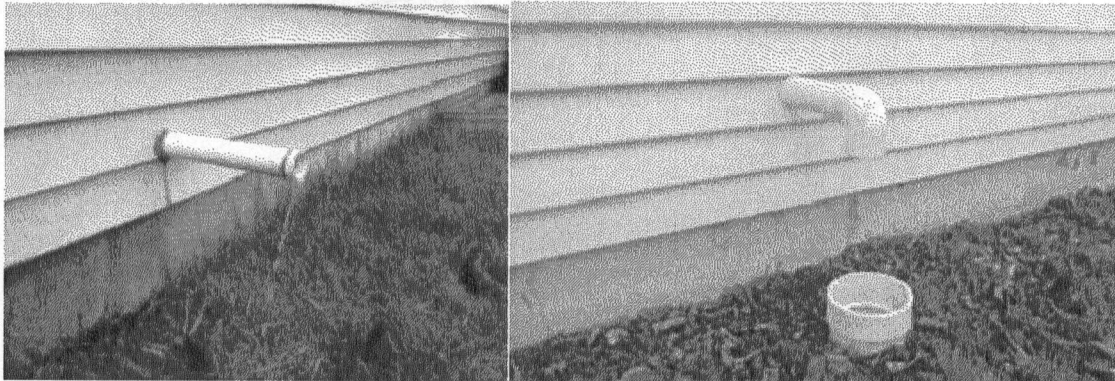
10) Install a low end w/sump pump and connect to previously dug perforated drain



11) Install dehumidifier & GFI outlet



12) Exit sump pump and dehu drain lines through foundation wall



13)

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14) Insulate and weather-strip access door.



15) Clean crawlspace of any dirt and debris

Send

No.	Addressee	Start Time	Time	Prints	Result	Note
1096	919199384075	10-05 14:44	00:02:10	003/003	OK	
1097	98935025	10-08 15:32	00:00:45	001/001	OK	
1098	98601938	10-15 13:14	00:01:38	003/003	OK	
1099	918601938	10-15 13:28	00:00:57	000/010	No Ans	
1100	918778557117	10-24 08:35	00:02:40	005/005	OK	
1101	98141559	10-29 08:59	00:00:19	001/001	OK	

Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX, DPG:Page Separation TX, MIX:Mixed Original TX, CALL:Manual TX, CSRC:CSRC, FWD:Forward, PC:PC-FAX, BND:Double-Sided Binding Direction, SP:Special Original, FCODE:F-Code, RTX:Re-TX, RLY:Relay, MBX:Confidential, BUL:Bulletin, SIP:SIP Fax, IPADR:IP Address Fax, I-FAX:Internet Fax

Result OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch OFF, TEL: RX from TEL, NG: Other Error, Cont: Continue, No Ans: No Answer, Refuse: Receipt Refused, Busy: Busy, M-Full:Memory Full, LOVR:Receiving length Over, POVR:Receiving page Over, Fil:File Error, DC:Decode Error, MDN:MDN Response Error, DSN:DSN Response Error, PRINT:Compulsory Memory Document Print, DEL:Compulsory Memory Document Delete, SEND:Compulsory Memory Document Send.

RX

No.	Addressee	Start Time	Time	Prints	Result	Note
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4688		09-25 15:32	00:00:49	000/000	TEL	
4689	3364341106	09-25 15:59	00:01:07	003/003	OK	
4690		09-26 09:16	00:00:49	000/000	TEL	
4691	910 897 2662	09-26 12:19	00:00:24	002/002	OK	
4692		09-26 15:30	00:00:41	001/001	OK	
4693		09-26 16:56	00:00:49	000/000	TEL	
4694		09-27 10:24	00:00:48	000/000	TEL	
4695	6506556633	09-27 10:57	00:01:20	002/002	OK	
4696	9104838737	09-27 11:49	00:00:26	002/002	OK	
4697	19104243233	09-28 11:44	00:00:59	001/001	OK	
4698		09-28 16:14	00:00:55	002/002	OK	
4699		10-01 08:38	00:00:53	002/002	OK	
4700	+12408235549	10-01 10:02	00:00:43	001/001	OK	
4701		10-01 11:04	00:00:50	000/000	TEL	
4702	910 630 1145	10-01 14:04	00:00:22	001/001	OK	
4703		10-01 14:35	00:00:20	001/001	OK	
4704	919 556 9502	10-01 15:00	00:00:23	001/001	OK	
4705	9196620656	10-01 15:02	00:00:49	004/004	OK	
4706		10-01 16:30	00:00:57	002/002	OK	
4707		10-02 09:48	00:00:50	000/000	TEL	
4708		10-02 10:13	00:00:23	001/001	OK	
4709		10-02 10:17	00:00:37	001/001	OK	
4710	custom heat and air	10-02 11:04	00:00:21	001/001	OK	
4711	919 556 9502	10-02 13:28	00:00:22	001/001	OK	
4712	9198942871	10-02 14:46	00:00:23	002/002	OK	
4713	919 639 8701	10-03 08:08	00:00:29	001/001	OK	
4714		10-04 10:15	00:00:21	001/001	OK	
4715	9194982612	10-04 10:25	00:00:28	001/001	OK	
4716		10-04 13:05	00:00:49	000/000	TEL	
4717		10-04 14:33	00:00:49	000/000	TEL	
4718	9108920115	10-05 09:35	00:00:17	001/001	OK	
4719		10-05 16:42	00:00:48	000/000	TEL	
4720	9104241787	10-08 09:50	00:00:27	001/001	OK	
4721	9104241787	10-08 09:53	00:00:21	001/001	OK	
4722	919 639 2389	10-09 13:38	00:00:20	001/001	OK	
4723		10-09 13:42	00:00:49	000/000	TEL	
4724	9197185827	10-10 07:56	00:00:37	001/001	OK	
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4727	18772530013	10-10 10:03	00:02:13	002/002	OK	
4728		10-10 16:06	00:00:17	001/001	OK	
4729		10-10 16:11	00:00:23	002/002	OK	
4730		10-11 09:14	00:00:27	002/002	OK	
4731		10-11 13:50	00:00:25	002/002	OK	
4732		10-11 15:53	00:00:14	001/001	OK	
4733		10-11 17:02	00:00:48	000/000	TEL	
4734		10-11 17:03	00:00:48	000/000	TEL	
4735	6007	10-11 17:12	00:00:48	002/002	OK	
4736		10-12 10:25	00:00:49	000/000	TEL	
4737	9108580008	10-12 11:05	00:00:22	001/001	OK	
4738	Clinic B Wake County	10-12 11:12	00:00:24	002/002	OK	
4739	919 639 2389	10-12 11:30	00:00:18	001/001	OK	
4740		10-12 13:57	00:00:25	002/002	OK	
4741	9108580008	10-15 07:30	00:00:19	001/001	OK	
4742		10-15 08:35	00:00:18	001/001	OK	
4743	6007	10-15 10:41	00:00:29	002/002	OK	
4744	919 639 2389	10-15 11:43	00:00:25	002/002	OK	
4745	Bitting Elect	10-15 16:12	00:00:43	001/001	OK	
4746		10-15 16:17	00:00:24	002/002	OK	

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RX

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4747		10-16 09:05	00:00:21	001/001	OK	
4748		10-16 14:23	00:00:17	001/001	OK	
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4751		10-17 11:02	00:00:29	002/002	OK	
4752	6007	10-17 11:47	00:00:16	001/001	OK	
4753	9198942871	10-17 12:13	00:00:15	001/001	OK	
4754	9198942871	10-17 12:14	00:00:15	001/001	OK	
4755		10-17 16:12	00:00:49	000/000	TEL	
4756	9842002277	10-18 09:12	00:01:43	006/006	OK	
4757		10-18 15:36	00:00:49	000/000	TEL	
4758		10-18 15:42	00:00:49	000/000	TEL	
4759	9104841124	10-18 16:57	00:00:43	003/003	OK	
4760		10-19 10:08	00:00:31	001/001	OK	
4761		10-19 12:45	00:00:26	001/001	OK	
4762	919 708 7095	10-19 14:35	00:00:22	001/001	OK	
4763		10-19 15:06	00:00:25	002/002	OK	
4764		10-22 12:12	00:00:49	000/000	TEL	
4765	910 897 2662	10-22 14:29	00:00:27	002/002	OK	
4766		10-22 14:35	00:00:28	002/002	OK	
4767		10-23 10:39	00:00:49	000/000	TEL	
4768		10-23 14:53	00:02:09	001/001	OK	
4769	910484 7453	10-23 15:42	00:00:26	001/001	OK	
4770	9197625644	10-23 16:08	00:00:37	003/003	OK	
4771	Fax Server	10-24 09:18	00:00:59	001/001	OK	
4772		10-24 09:23	00:00:26	002/002	OK	
4773	Harnett County	10-25 10:38	00:00:43	002/002	OK	
4774	Bitting Elect	10-25 11:43	00:00:46	001/001	OK	
4775		10-26 10:34	00:00:48	000/000	TEL	
4776		10-26 12:01	00:00:49	000/000	TEL	
4777		10-26 14:03	00:00:23	001/001	OK	
4778		10-29 09:04	00:00:25	002/002	OK	
4779	919 639 8701	10-29 10:25	00:00:44	001/001	OK	
4780	6506556633	10-29 11:58	00:24:16	010/010	OK	

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