



BUILDBLOCK™

INSULATING CONCRETE FORMS | MANUFACTURED BY STYRORAIL

CONSTRUCTION IN 21 STEPS





Step 1

After zoning and building permit requirements are met, prepare the site for footings or slab on grade construction.

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Step 2

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Formwork is placed for footings as per local codes or as specified.





Step 3

A pre-pour inspection may be required, check with local code officials. Place concrete in formwork. Care should be taken when consolidating concrete to eliminate voids or honeycombing.

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Step 4



Level footings make the whole building process easier. Take a little extra care here.



Step 5

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Place vertical reinforcing as specified or per local codes and/or the BuildBlock Engineering Manual.





Step 6

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Once lines are snapped on footings, materials can be staged for faster installation.



Step 7



Starting at a corner, begin stacking wall.



Step 8

Place horizontal reinforcing as specified. Reverse corners each course to create a running bond layout.

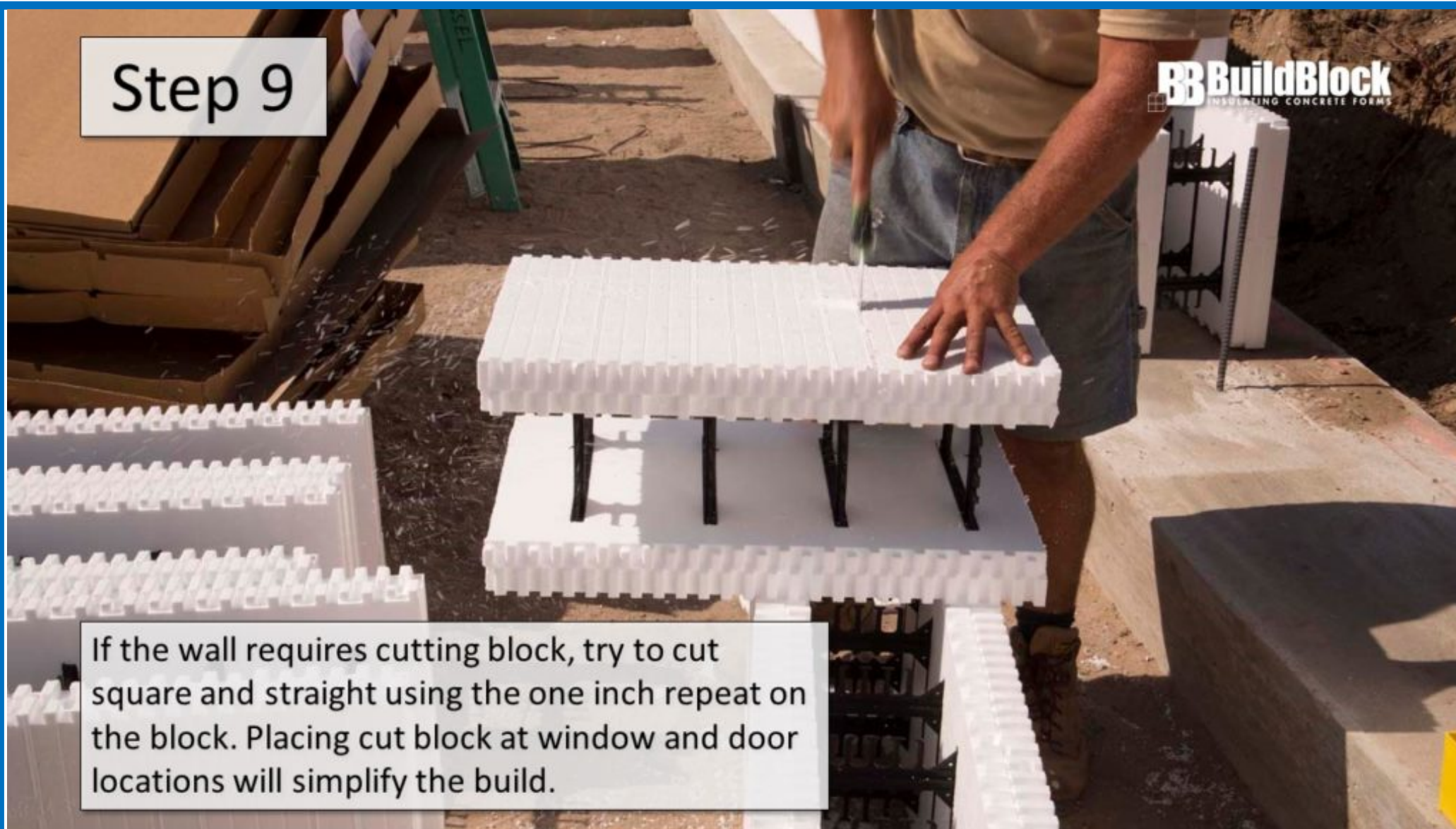




Step 9

If the wall requires cutting block, try to cut square and straight using the one inch repeat on the block. Placing cut block at window and door locations will simplify the build.

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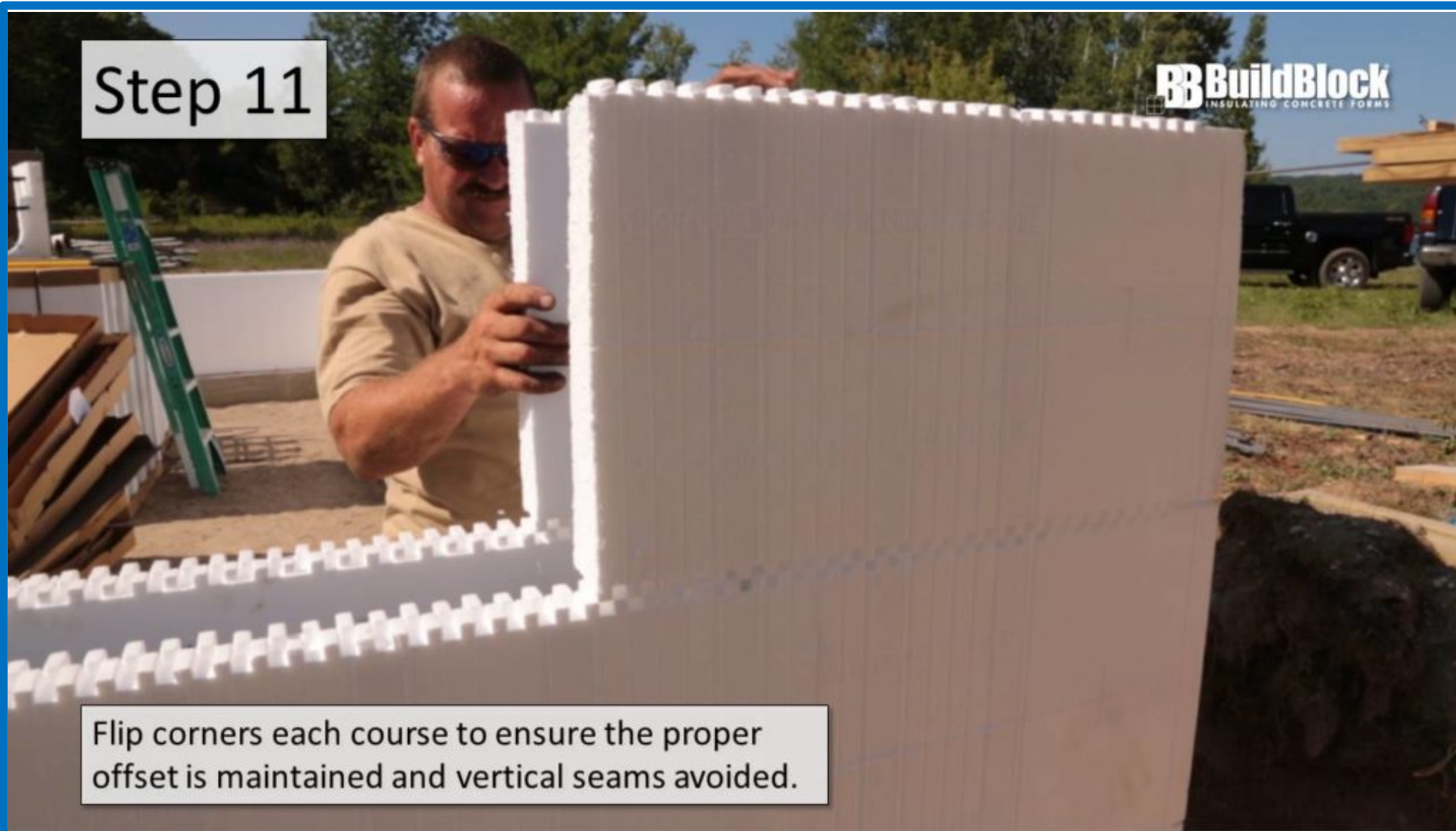
Step 10

After two or three courses have been placed, shim and trim as needed so walls are level and plumb. Spot glue to footing or slab and wait for foam adhesive to set before continuing with your wall.

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Step 11



Flip corners each course to ensure the proper offset is maintained and vertical seams avoided.



Step 12



Working off of the erected alignment system makes stacking the remaining block easy.



Step 13

Using an approved alignment/ bracing system, such as BuildBrace 1, place as per O.S.H.A. recommendations. Windy locations may require placing the alignment system after the first or second course. Normally the 3rd or 4th course works best.





Step 14

Window and door bucks should be made and ready to set in place as you are erecting the wall.

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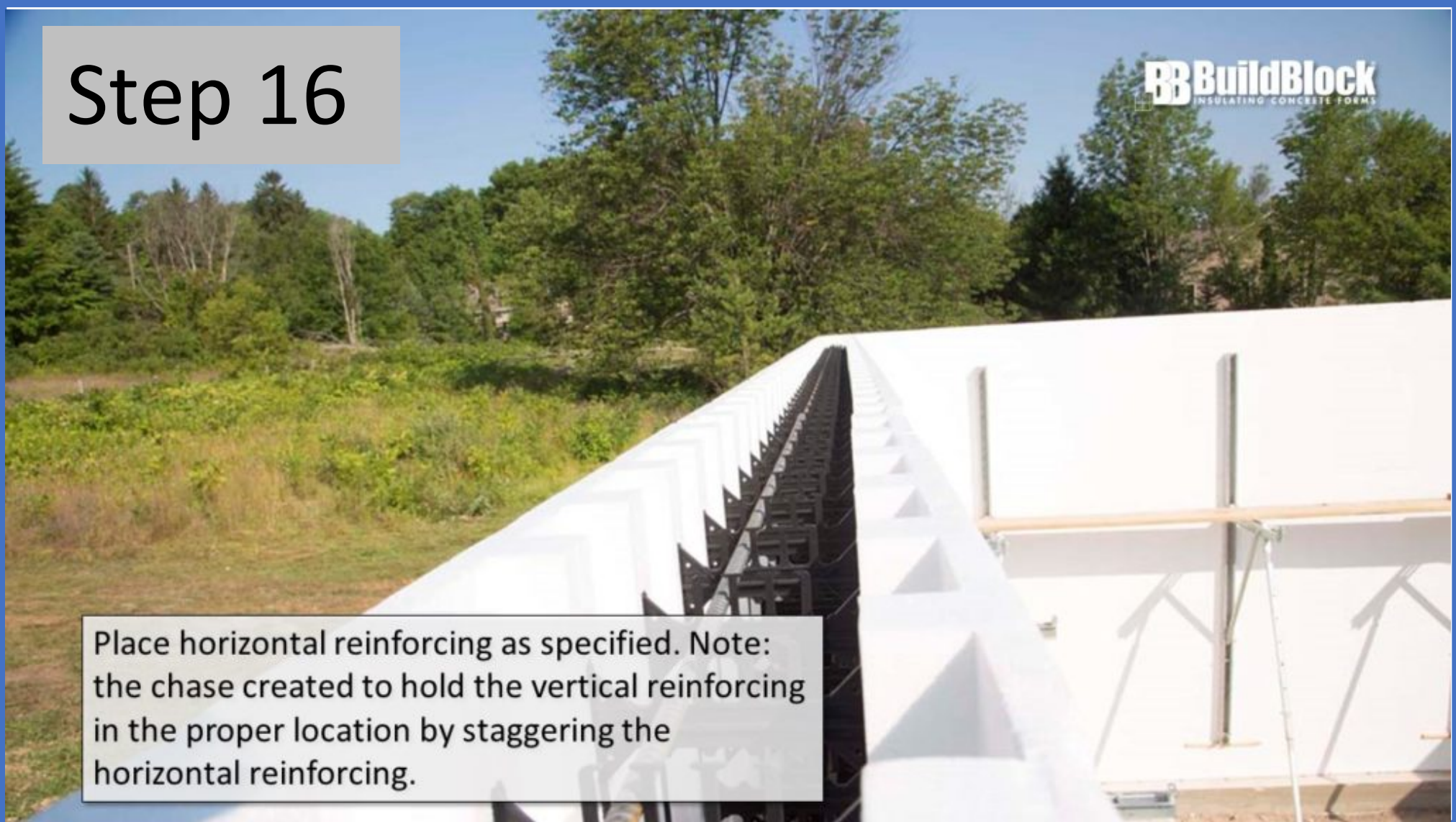
Step 15

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Any penetrations must be made before concrete is poured.



Step 16



Place horizontal reinforcing as specified. Note: the chase created to hold the vertical reinforcing in the proper location by staggering the horizontal reinforcing.



Step 17





Step 18

After the wall is poured one person can use the adjustment on the top of the alignment system to ensure the wall is square and plumb.





Step 19

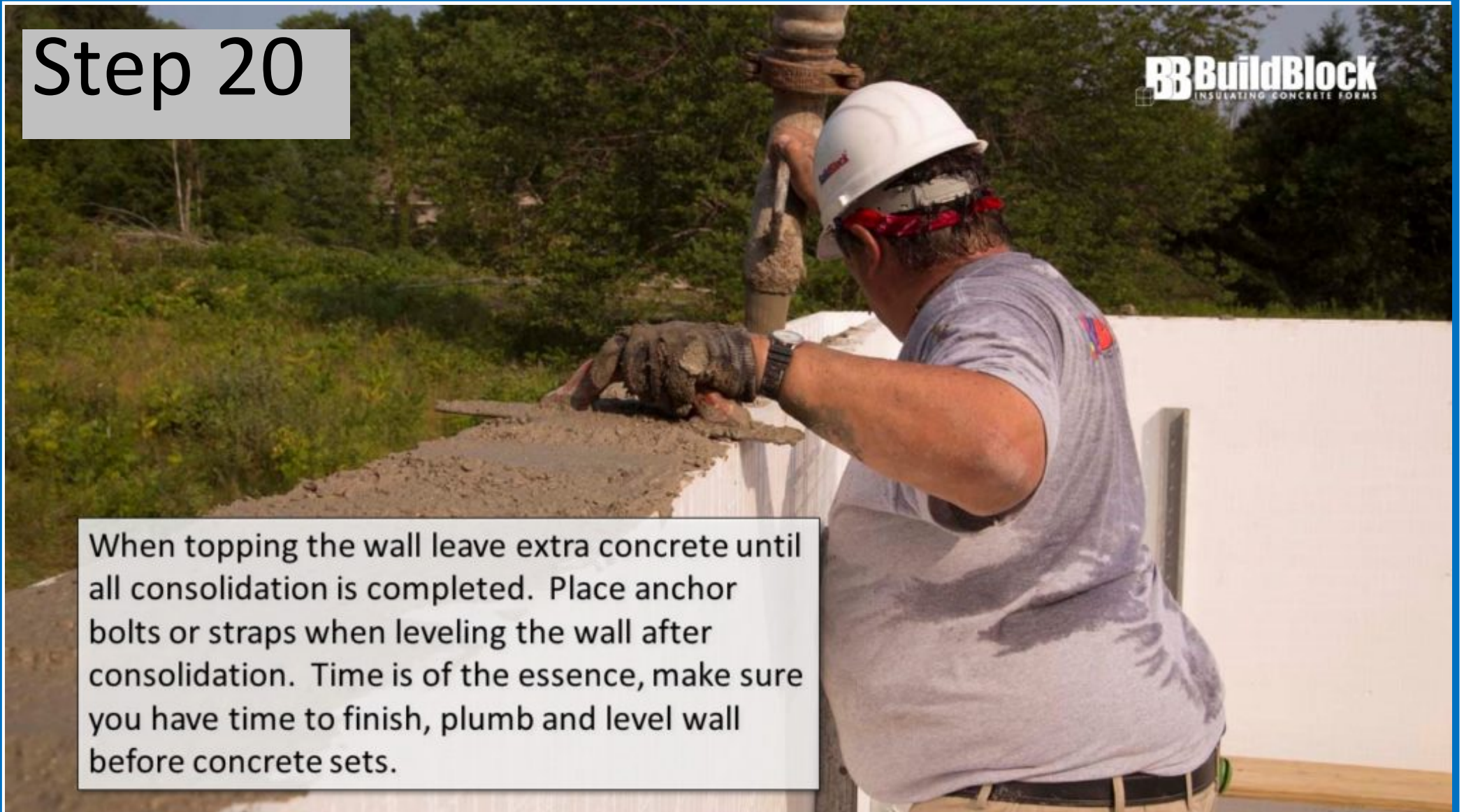


Pouring in 4' lifts, continue pouring until the concrete reaches the desired level. A low impact concrete vibrator with a 1" head is recommended to consolidate concrete during the pour.



Step 20

When topping the wall leave extra concrete until all consolidation is completed. Place anchor bolts or straps when leveling the wall after consolidation. Time is of the essence, make sure you have time to finish, plumb and level wall before concrete sets.





Step 21

Make sure top of wall is clean and flat. Wipe away debris and splatter. Once the final alignment is finished, stay off the alignment system to avoid possible movement of the wall. Sight wall after a half an hour, adjust wall as needed.

