A NEW SUBSTITUTE FOR ASPHALT.

Germany possesses no quarries of bituminous limestone suitable for street pavements. The chemists of that country have often tried to find an artificial substitute, but never succeeded. The compositions lacked the necessary strength and elasticity, although every possible combination of limestone and bitumen was tried.

Herr Busse, a chemist of Linden, near Hanover, noticed that all artificial asphalts lacked certain gummy oils existing in the natural stone. This led him to experiment on mixtures of finely powdered stone with these oils, with the result of producing a material said to be very similar to natural asphalt.

The material is claimed to be absolutely impervious to the action of the weather. At the government testing bureau at Charlottenburg, the compressive strength was found to be about 2,300 lbs. per sq. inch. In some experiments in Hanover it was found that a layer of the material 2 inches thick would stand a pressure of 5,970 lbs. per sq. inch. The difference between the figure and that just given is probably due to the fact that the government tests were made on centimetre tubes. About 500 sq. yards were laid in Hanover in the summer of 1887; this surface has worn so well that 1,670 sq. yards are now being laid in that city. Berlin, Hamburg and Cologne have begun series of tests also.

The compound is laid in a similar manner to asphalt. For streets, a concrete foundation 8 inches thick is laid, and on this enough of the hot powder is spread to leave a 2-inch layer when well rolled.

The cost of this pavement is not given, and, as the Schweizerische Bauzeitung, to which we are indebted for these notes, states that the new invention must not only be as serviceable but also as cheap as the natural asphalts in order to compete with them.

NOVEL PLAN OF RAISING WATER FROM A SHAFT.

W. Galloway described before the South Wales Institute of Engineers, a short time ago, a novel plan of raising water from the shaft sunk at Llanbradach by the Cardiff Steam Coal Collieries Company.

It was known that a considerable thickness of the Pennant sandstone series, which is invariably found heavily watered, required to be passed through, and surrounding collicries have heavy pumping fittings. The absence of any means of determining the probable quantity of water to be dealt with in sinking led to special provision for winding the water to the surface. The contract provided for certain allowances whenever the water exceeded 4,000 gallons per hour, whether pumps were provided or not. The largest quantity met with was 7,500 gallons an hour in the shaft bottom. Down to a depth of 135 yards the total growth was 9,000 gallons an hour, of which 5,000 gallons was walled out by brick and cement walling. It would have been impossible to proceed with the sinking without pumps had it been necessary to fill the water into the kettle by the ordinary means of bailing. Mr. Galloway accordingly devised what he calls a "pneumatic water barrel."

It consists of a cylindrical vessel of sheet-iron, 4 feet 2 inches in diameter, and 8 feet deep, closed at the top by an airtight manhole door. The bottom is 5 inches above the lower edge of the cylinder, and has a circular hole in it 18 inches in diameter. This hole is closed by a faced valve of cast iron, mounted with a sheet of leather, capped and tightly clasped by an iron hoop. The valve is attached to a spindle by a ball and socket joint, by which it is kept in position, but allowed a certain amount of play so that it may readily accommodate itselftoits seat. The cylinder is thus an air-tight vessel, the interior of which has communication with the exterior atmosphere only by means of a pipe, extending from close to the top of the cylinder in the inside, to the outside of the vessel half-way down. The outside end of the pipe is fitted with an instantaneous coupling identical with that used on the vacuum railway brake. In use the pneumatic water barrel is lowered into the shaft till its lower edge is under water in the shaft bottom. The interior is put into communication with a condenser air pump on the surface by attaching a flexible tube connected to the vacuum pipes in the shaft to the instantaneous coupling of the barrel. A vacuum equivalent to 20 to 22 inches of mercury is thus obtained inside the barrel, and the water rushes in through the bottom valve. A glass gauge tube on the outside of the vessel shows when it is full. The tube is detached, and the signal given to raise the barrel. When it reaches the surface a bogie is run under it, and it is lowered on a conical block of wood, which raises the valve, and the water escapes.

Prices of Building Materials.

CAR OR CANGO LOTS.

| 134 and thicker clear picks, Am. ins | \$10.000 | (£33 | 00 |
|--|----------|----------------|----------|
| 1 34 and thicker, three uppers, Am in | | 37 | |
| 1 1/2 and thicker, pickings, Am ins | | 27 | |
| 1 x to and 12 dressing and better | 18 00 | | |
| . x 10 and 12 mill run | 13 00 | | |
| 1 x to and 12 dressing | 14 00 | | |
| 1 x to and 12 common | 12 00 | | |
| 1 x 10 and 12 spruce culls | 10 00 | 11 | |
| x to and 12 maple cult | | 9 | 00 |
| z inch clear and picks | 28 oo | 36 | |
| t inch dressing and better | 18 00 | 30 | œ |
| t inch siding, mill run | 14 00 | 16 | 00 |
| z inch siding, common | 11 00 | 12 | 01 |
| t inch siding, ship culls | \$10 00 | \$11 | 02 |
| t inch siding, mill culls | 8 00 | 9 | 00 |
| Cull scantling | 8 00 | ۰ | 00 |
| 1 1/2 and thicker cutting up plank | 22 00 | | |
| t inch strips, 4 in. to 8 in. mill tun | 14 00 | 15 | 00 |
| 1 inch strips, common | 11 00 | 13 | 00 |
| 134 inch flooring | 14 00 | 15 | 00 |
| t 1/2 inch flooring | 14 00 | 16 | 00 |
| XXX shingles, sawn | 2 30 | (g , 3 | 35 |
| XX shingles, sawn | 1 30 | | 35 |
| Eastlake galvanized steel shingles, 24 | - | | - |
| W. G., per square | | 6 | 00 |
| Eastlake galvanized steel shingles, 26 | | | |
| | | | Su |
| Eastlake painted steel shingles, per so. | | 4 | ø. |
| Round pointed galvanized steel | | | |
| _ shingles, per sq | | 6 | ∞ |
| shingles, per sq | | 4 | 25 |
| Round pointed, unpainted, teme tin | | | |
| shingles | | 4 | 00 |
| Manitoba galvanized, steel siding, per | | | |
| square | | 5 | œ |
| Manitoba painted steel siding, per sq. | | | 50 |
| Painted sheet steel pressed brick | | 3 | 50 |
| Painted crimped steel sheeting | | 3 | 41 |
| Price of Copper shingles according to v | reight. | | |
| | | | |

| YARD QUOTATIONS. | | |
|--|---|--|
| Mill cull boards and scantling | t | 0 00 |
| Shipping cull boards, promiscuous widths | | 3 00 |
| Hemilock Cantling and joint up to 10 ft. | 11 00 4 | 1 00 1 00 |
| 11 11 11 20 (1 | 12 00 1; 13 40 1. | 3 00 4 00 |
| Scantling and joist, up to 16 ft | | 4 00 5 00 |
| 11 11 20 ft | 1 | 7 00 9 00 |
| 11 11 24 ft | 3 | ίο 3 ∞ |
| 10 25 11 | 2 | 5 00 7 00 |
| 1 1 30 ft 1 1 32 ft | 2. | 7 00 |
| 11 136 R | 3 | 9 50 1 00 3 00 6 00 6 00 |
| u u 40, to 44 ft | 3 | , , |
| n n board, | 1000 2 | 200 . |
| Cedar for block paving, per cord Cedar for Kerbing, 4 x 14, per M | 1 | 5 00 4 00 |
| B. M. 113 inch flooring, dressed, F. M. | 25 vo 3 | 1 00 |
| 134 inch flooring rough, B. M | 18 00 a | 8 00 |
| unaressea, is, al. | 18 00 1 | 9 00 |
| u undressed | 12 00 1 | 5 00 |
| Beaded sheeting, dressed | 22 00 3 | 5 00 2 00 |
| Sawn lath | 3 00 | 2 75 2 20 |
| | 30 00 4 35 00 4 | o oo 5 oo |
| White Basswood, No. 1 and 2 Cherry, No. 1 and 2. White ash, No. 1 and 2. Black ash, No. 1 and 2. | 1800 3 | 000 |
| White ash, No. 1 and 2 | 25 00 2 | 5 00 |
| Dressing stocks | ანთ 3 | 2 00 |
| Three uppers, American inspection | 4 5 | 0 00 |
| BRICK-V M | | |
| Common Walling | | 9 00 |
| Prensed Brick | 8 50 | 3 00 |
| Plain brick, f. o. b. at Milton, per M | Şı | 7 00 |
| Plain brick, f. o. b. at Milton, per M | 1 | 3 00 0 00 |
| Hard Building Moulded and Ornamental, per 100 | | 8 00 |
| Fire malies Co b as Campbellville nee | | 600 |
| and " " " " " | | 3 00 |
| Hard Building | ., ' | 800 |
| Ornamental, per 100 | | 0 00 14 00 |
| Stone. | | |
| Common Bubble Der Torre delivered | _ | |
| Common Rubble, Per Toise, delivered | 1 | 4 00 8 00 |
| Foundation Blocks, " Cubic Foot | : | 4 00 8 00 35 |
| Large flat " " Cubic Foot Slate: Roofing (& square). | , | 8 ou 35 6 oo |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). red | 1 | 8 ou 35 6 oo 9 ou 9 oo |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (\$\frac{1}{2} square\$). red | 1 | 8 ou 35 6 oo 9 ou |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). red | ; | 8 ou 35 6 oo 9 ou 9 oo |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). red. "red. | ; | 8 ou 35 6 oo 9 ou 9 oo 7 50 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). red. "red. | : | 8 ou 35 6 oo 9 ou 9 oo 7 50 8 oo 1 25 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (** square*). "red | : | 8 ou 35 6 oo 9 ou 9 oo 7 50 8 oo 1 25 6 50 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (Naguare). "red." "purple." "unlading green." "black date Terra Cotta Tile, per sq Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. Pal Load of 1½ Cubic Yards. Pal NATS. (In oil, V lb.) White lead, Can. "zinc, Can. Red lead, Eng." | 6 25 632 532 160 | 8 00 35 6 00 9 00 9 00 7 50 8 00 1 25 6 50 7 50 6 50 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (V square). "purple | 6 25 635 535 536 500 | 8 ou 35 6 oo 9 ou 9 oo 7 50 8 oo 1 25 6 50 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (Naguart). "red | 6 25 635 535 1 60 90 10 | 8 00 35 6 00 9 00 9 00 7 5 00 8 00 1 25 6 50 7 50 6 6 2 1 75 1 00 1 2 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (Naguart). "red | 6 25 632 532 1 60 90 10 5 | 8 ou 35 6 oo 9 oo 9 oo 7 50 00 8 oo 1 25 1 00 12 100 12 100 12 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (V square). "purple | 6 25 625 525 1 60 90 10 5 7 7 15 | 8 00 35 6 00 9 00 9 00 7 50 1 25 6 50 7 50 1 25 1 00 1 20 1 10 20 1 24 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). " purple "unlading green "black slate" Terra Cotta Tile, per sq. "Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS: (In oil, Vlb.) White lead, Can. " zinc, Can. Red lead, Eng. " venetian "venetian" " venetian "venetian" " lindian, Eng. Yellow ochre Yellow chrome. Green, chrome. Green, chrome. " Paris Black, lamp. Blue, ultranarine | 6 25 625 525 1 60 90 10 5 7 7 15 15 68 | 8 00 33 6 00 9 00 9 00 7 50 8 00 1 25 6 50 6 7 50 1 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). "red | 6 25 65 7 7 25 15 68 7 7 8 | 8 00 33 6 00 9 00 9 00 7 5 00 8 00 1 25 1 25 1 00 1 20 1 20 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). "purple unlading green "purple "unlading green "black date Terra Cotta Tile, per sq Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards. PAINTS, (In oil, Vib.) White lead, Can "zinc, Can Red lead, Eng "venetian "remillion "Indian, Eng "Vellow chrome Green, chrome Green, chrome Green, chrome Green, chrome Bluc, ultramarine Oil, linseed, raw (½ Imp. gallon) "boled "refined, "refined, | 6 25 65 5 60 90 10 5 15 15 15 15 15 15 15 15 15 15 15 15 1 | 8 00 33 6 00 9 00 7 00 7 00 1 25 6 50 1 25 1 25 1 20 1 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). "purple "Paris Black slate Roofing. "Paris PAINTS. (In oil, V lb.) "purple | 6 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 8 00 33 6 00 9 9 00 9 9 00 1 25 1 25 1 25 1 25 1 25 1 25 1 25 1 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (V square). "purple | 6 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 8 00 35 6 00 9 00 7 50 8 8 00 1 25, 6 50 7 50 1 7 50 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (V square). "purple | 6 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 8 00 35 6 00 9 00 9 7 50 1 25 6 50 6 7 50 6 22 1 25 1 00 1 2 1 2 1 00 1 2 1 00 1 2 1 00 1 2 1 00 1 2 1 00 1 00 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). " red. " purple " unlading green " black date Terra Cotta Tile, per sq. "Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards Pal Can Red lead, Eng " venetian " verntillion " Indian, Eng " venetian " verntillion " Indian, Eng " vellow ochre Yellow ochre Yellow chrome Green, chrome Green, chrome Green, chrome Ultharge, Am., sliend, " Chiland, and Litharge, Am., slienna, burnt Umber, " CESSENT, LIME, etc Lime, Per Barrel of 2 bux': 14, Grey | 6 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 8 ou 35 6 oo 99 oo 77 50 77 50 77 50 12 12 12 12 12 12 12 12 12 12 12 12 12 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). " red. " purple " unlading green " black date Terra Cotta Tile, per sq. "Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards Pal Can Red lead, Eng " venetian " verntillion " Indian, Eng " venetian " verntillion " Indian, Eng " vellow ochre Yellow ochre Yellow chrome Green, chrome Green, chrome Green, chrome Ultharge, Am., sliend, " Chiland, and Litharge, Am., slienna, burnt Umber, " CESSENT, LIME, etc Lime, Per Barrel of 2 bux': 14, Grey | 6 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 8 00 35 6 00 9 9 00 7 7 00 8 00 1 25, 6 7 50 6 7 50 1 25, 1 20, 1 20 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). " red. " purple " unlading green " black date Terra Cotta Tile, per sq. "Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards Pal Can Red lead, Eng " venetian " verntillion " Indian, Eng " venetian " verntillion " Indian, Eng " vellow ochre Yellow ochre Yellow chrome Green, chrome Green, chrome Green, chrome Ultharge, Am., sliend, " Chiland, and Litharge, Am., slienna, burnt Umber, " CESSENT, LIME, etc Lime, Per Barrel of 2 bux': 14, Grey | 6 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 8 00 35 6 00 9 9 00 7 7 50 8 00 1 25 6 7 50 1 25 1 |
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| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). "purple | 6 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 8 00 35 6 00 9 9 00 7 7 50 8 00 1 25 6 7 50 1 25 1 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). " purple unlading green " purple " unlading green " black date Terra Cotta Tile, per sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards Pal Load Can " inc. Can Red lead, Eng " venetian Palis undian Paris Bluc, ultramarine Oil, linseed, raw (½ Imp. gallon) " boled " refined, Putty Whiting, dry Paris white Eng., dry Litharge, Am Sienna, burnt Umber, " CESIENT. LIME, etc Lime, Per Barrel of 2 bux' :li, Grey " Nova Scotia Hair, Plasterers', per bag Cement, Portland, per bbl " Nopance, " Hull, " HARDWARE. | 6 25 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 8 00 35 6 00 9 9 00 7 7 50 9 9 00 7 7 50 9 8 8 00 1 2 5 6 7 50 2 2 6 7 6 7 50 2 2 6 7 6 7 50 2 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 7 50 2 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (N square). " purple unlading green " purple " unlading green " black date Terra Cotta Tile, per sq. Ornamental Black Slate Roofing. Sand: Per Load of 1½ Cubic Yards Pal Load Can " inc. Can Red lead, Eng " venetian Palis undian Paris Bluc, ultramarine Oil, linseed, raw (½ Imp. gallon) " boled " refined, Putty Whiting, dry Paris white Eng., dry Litharge, Am Sienna, burnt Umber, " CESIENT. LIME, etc Lime, Per Barrel of 2 bux' :li, Grey " Nova Scotia Hair, Plasterers', per bag Cement, Portland, per bbl " Nopance, " Hull, " HARDWARE. | 6 25 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 8 00 35 6 00 9 9 00 9 7 7 5 00 9 9 00 7 7 5 00 12 12 5 00 12 12 12 12 12 12 12 12 12 12 12 12 12 |
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| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (% square). " purple | 6 25 66 65 5 56 60 90 10 15 15 15 15 15 15 15 15 15 15 15 15 15 | 8 00 35 6 00 9 9 00 9 7 7 5 00 9 9 00 7 7 5 00 12 12 5 00 12 12 12 10 10 12 12 12 12 12 12 12 12 12 12 12 12 12 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (% square). " purple | 6 25 66 65 5 56 60 90 10 15 15 15 15 15 15 15 15 15 15 15 15 15 | 8 00 35 6 00 00 9 7 7 8 00 1 25 6 7 6 7 6 7 6 7 6 7 6 7 7 7 7 7 7 7 7 |
| Large flat "Foundation Blocks, "Cubic Foot Slate: Roofing (% square). " purple | 6 65/5 600 10 0 15 15 7 7 8 15 15 15 8 15 15 8 15 15 8 15 15 8 15 15 15 15 15 15 15 15 15 15 15 15 15 | 8 00 35 6 00 00 9 00 7 7 00 0 8 00 0 7 7 50 0 8 00 0 1 2 5 6 7 6 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 |