Designing.

NEW DESIGNS.

NOVELTIES IN WOOLEN AND WORSTED DRESS FABRICS.

Though the novelties produced in woollen dress cloths have of late been many and varied, there seems as yet no indication that the ground is anything like exhausted. This week a new type of cloth has appeared— a type which is likely to come much into vogue in the coming year, and which we should recommend our readers to experiment with in all possible ways.

The structure of the cloth may be best described as plain, or two-and-two twill, with an extra shading weft introduced to form the figure. The more ordinary makes of these cloths will probably have a reversible pattern of some simple type developed, but users of this or four-hundred machine may well undertake the production of more elaborate styles, since open sets are effective in this case, giving a large repeat of pattern.

The following is a suitable sett for the production of the structure indicated in Designs 215 and 216.

<table>
<thead>
<tr>
<th>Warp</th>
<th>Weft</th>
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<tr>
<td>40 s. woolen</td>
<td>2 pick 45 s. woolen</td>
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<tr>
<td>11&quot; reed 7s.</td>
<td>1 pick 29 s. slubbing</td>
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50-55 picks per inch.

The slubbing must be of good quality, and have sufficient twist to secure its weaving well.

This is an elaboration of design, designed for this type of material. The development for a 384 machine is shown in Design 215, and sixteen picks of this design are fully developed in Design 216. The introduction of the slubbing and between every two ground picks being clearly indicated. In section A the slubbing is shown on the surface, in section B at the back, but tied to the face cloth, and in section C the slubbing would simply float at the back, which is not at all a desirable condition, since if it be bound, it adds to the finish of the texture. Probably the best way to treat the binding of the slubbing is to regard it as an extra weft, which may be taken through to the back of the cloth as required, but, of course, when it runs at the back care should always be taken to bind it so that it does not show on the face. Figure 39, if developed in the above sett, will give a pattern about 8 inches on a 384 machine for 384 = 44 = 96 inches.

ORIGINAL DESIGN FOR UNION CLOTHES, LINEN, AND COTTON.

We give an original design for union cloth, linen and cotton, which are at present engaged abroad in heavy, medium, and light makes. The weave is on nice shafts, with two separate drafts, Nos. 1, 2, and Nos. 1, 2, 3, and 4, working plans. The draft No. 2 makes the number of ends in each heald equal, and either of the working plans may be used with it, in fact, a practical and ingenious plan. By drafting and various trials, can easily produce an enormous quantity of changes and variety of effect. We would suggest as a basis to work upon a 20 reed, 2 in a dent, or more plainly, 60 ends on one inch, and 40 picks per inch for stripes composed of 12° cotton, 18° linen, for a heavy type of cloth, or 10° cotton, 20° linen, and 12° cotton. It would be better in the stripe arrangement to have separate beams for the linen and cotton warps. The colours: blue cotton and white linen, brown cotton, white linen, dark green cotton, white linen, pink cotton, white linen, 12° cup warp, the patterns 5, 6, and 6, 9, and 6, and 6, 9, 18, and 16, good tussoring patterns for the export trade. Checks need not have the warp on separate beams, because the linen weft will equalize the strain on the linen warp. The following details will be found useful for dresses, aprons, blouses, and many other purposes—Cotton warp and weft, 10° and 20° linen for warp and weft; 30 reed, two in a dent, or 72 ends per inch, 72 picks per inch, well. A very superior and most durable effect would be the product of these details. Patterns of warp: 36 blue cotton, 36 white linen; weft the same pattern.

60 brown cotton, 36 white linen; weft the same pattern.

60 dark drab, 36 white linen; weft the same pattern.

18 pale rose, 18 white linen; weft the same pattern.

18 dark madder, 18 white linen; weft the same pattern.

0 tan, 0 white linen; weft the same pattern.

6 coral, 6 white linen; weft the same pattern.

0 gray blue, 6 cream colour linen; weft the same pattern.

It will be seen that an almost unlimited range of patterns may be obtained all different shades and tints. The design is also well adapted for all-cotton fabrics, or mixed goods of silk and cotton. As a rule, the designs which we give are of almost universal adoption, as we consider it worse than useless to give figures, designs, and patterns that are restricted to one class of fabrics only. It is highly important that manufacturers should have at their disposal a series of patterns from which the greatest possible variety may be obtained at a moderate price, and if the accidents in the pattern sections of a range may turn out capital specimens of the souvenirs. By these simple though effective means we consider we are doing our best to make this journal fulfil the rôle of a public and practical educator.