

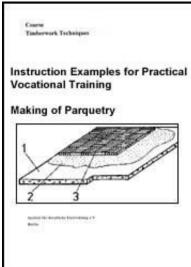
pattern, parquetry-fillet with fixed tongue

- Instruction Example 7.4.: Laying of Parquetry -Technique: nailed on planed boarded floor, belt or ship's bottom pattern, parquetry-fillets with movable tongues
- Instruction Example 7.5.: Finishing and Sealing of Parquetry

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Making of Parquetry - Course: Timberwork techniques. Instruction examples for practical vocational training (Institut fr Berufliche Entwicklung, 24 p.) 22/10/2011



Making of Parquetry - Course: Timberwork techniques. Ins...

- (*introduction...*)
 Preliminary Remarks
- Instruction Example 7.1.: Determining the Material Requirement of Single Parts of Parquetry for a Given Room
- Instruction Example 7.2.: Laying of Mosaic Parquetry
- Instruction Example 7.3.: Laying of Parquetry -Technique: pasted on solid ceiling, belt or ship's bottom pattern, parquetry-fillet with fixed tongue
- Instruction Example 7.4.: Laying of Parquetry -Technique: nailed on planed boarded floor, belt or ship's bottom pattern, parquetry-fillets with movable tongues
- Instruction Example 7.5.: Finishing and Sealing of Parquetry

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Instruction Example 7.5.: Finishing and Sealing of Parquetry

Preliminary Remarks

The present material includes 5 selected instruction examples on the basis of which the laying of parquetry can be practised.

The instruction examples are organized in such way that by solving the tasks of the first example the material in the form of parquetry-fillets required for the second, third and fourth examples is determined.

In the course of the instruction examples 2-4, the various operations of laying of parquetry are carried out.

Instruction Example 7.5. deals with the finishing of parquetry.

In order to facilitate the preparation and carrying out of the respective operations, the materials, tools, measuring and testing means as well as auxiliary accessories required for each instruction example are indicated.

Furthermore, the basic knowledge is mentioned which is required besides mastering the technique "Making of Parquetry". It is recommended to repeat this basic knowledge before starting the exercises.

Observing the given sequence of operations will result in a good quality of work.

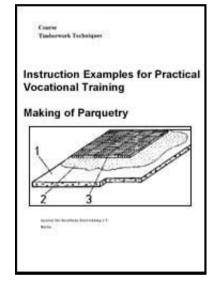
A working drawing is attached to each instruction example, that will facilitate the technological approach.

The fixing of the skirting board is not explained in the present instruction examples. Information on this can be taken from the material on "Making of Floors".

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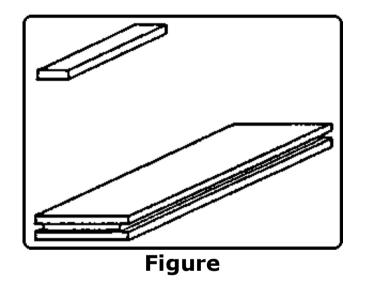


Making of Parquetry - Course: Timberwork techniques. Instruction examples for practical vocational training (Institut fr Berufliche Entwicklung, 24 p.)

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- Requirement of Single Parts of Parquetry for a Given Room
- **Instruction Example 7.2.: Laying of Mosaic Parquetry**
- Instruction Example 7.3.: Laying of Parquetry -Technique: pasted on solid ceiling, belt or ship's bottom pattern, parquetry-fillet with fixed tongue
- Instruction Example 7.4.: Laying of Parquetry -Technique: nailed on planed boarded floor, belt or ship's bottom pattern, parquetry-fillets with movable tongues
- Instruction Example 7.5.: Finishing and Sealing of Parquetry

Instruction Example 7.1.: Determining the Material Requirement of Single Parts of Parquetry for a Given Room

Practising material calculations for determining the required number of single parts of parquetry.



Measuring and testing means

Folding rule, steel tape measure

Auxiliary accessories

Pocket calculator, paper, pencil

Required basic knowledge

Using length measuring instruments, mastering fundamental operations such as multiplying and dividing

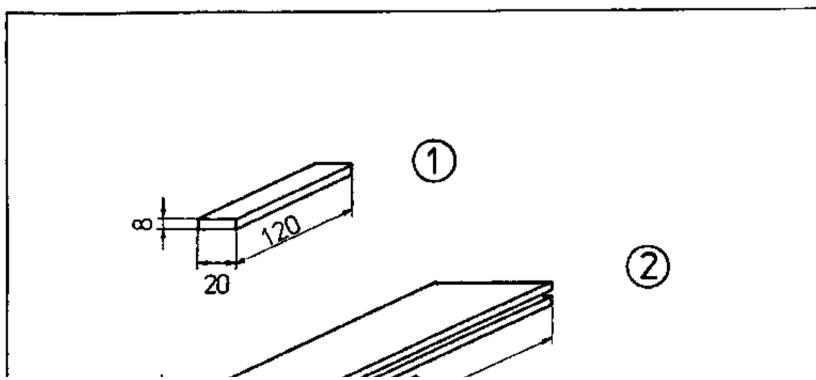
Explanations to the working drawing

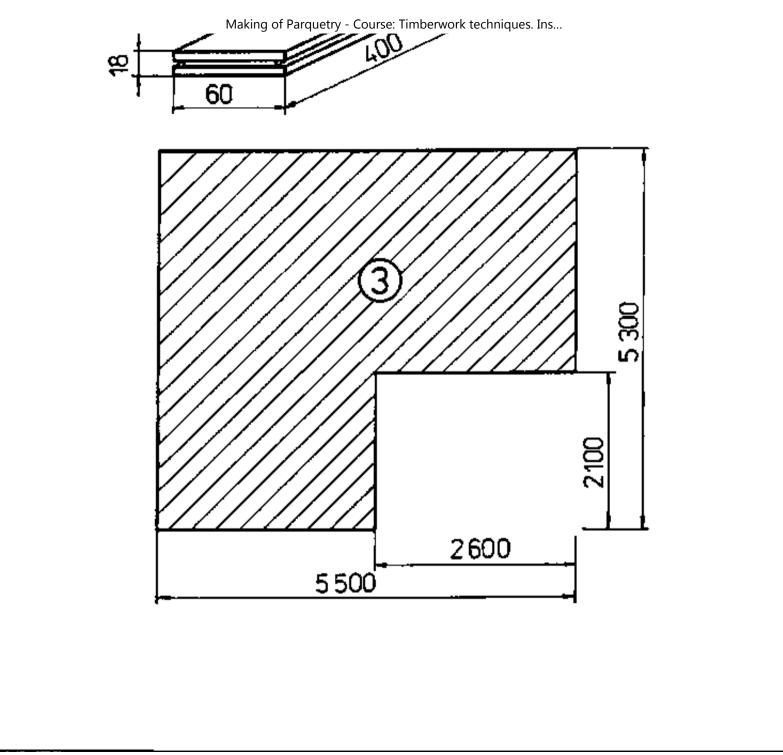
- **1** Mosaic parquetry-fillet
- 2 Parquetry-fillet
- **3** Surface of the room to be calculated

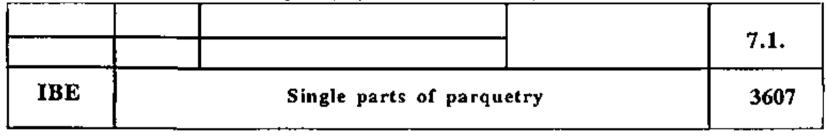
Sequence of operations	Comments
 Preparing writing paper, pencil and measuring equipment. 	Taking this equipment to the room that shall be measured.
Measuring the dimensions of the room and writing them down on a hand drawing.	Making the free-hand sketch in the room itself ("on the spot").
3. Calculating the surface of the room	The calculations should be made at a working table with seats. Using a pocket calculator is recommended.
<u>given</u> : - dimensions of the room - dimensions of the surfaces of the parquetry-fillets	
to be determined: - required number of mosaic parquetry-fillets - required number of parquetry-fillets	
$F_1 = a \bullet b$ rd3wddvd/NoExe/Master/dvd001//meister10.htm	$F_1 = surface$ without recess (total)

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$F_1 = 5030 \text{ mm} \cdot 5500 \text{ mm}$	
$F_{2}^{1} \equiv 2_{a} \sqrt{6} 5 000 \text{ mm}^{2}$	F_2 = surface of the recess
F ₂ = 2100 mm •2600 mm	
$F_2 = 5 \ 460 \ 000 \ mm^2$	
$F_{R} = F_{1} - F_{2}$	F_R = surface of the room (real)
$F_{\rm R} = 27\ 665\ 00\ {\rm mm}^2 - 5460\ 000\ {\rm mm}^2$	
$F_{\rm R} = 22\ 205\ 000\ {\rm mm}^2$	
4. Calculation of the surface of the given mosaic parquetry-fillet	
$F_{MP} = b \bullet 1$	F_{MP} = surface of the mosaic parquetry-filled
F _{MP} = 20 mm • 120 mm	
$F_{MP} = 2 \ 400 \ mm^2$	
5. Calculation of the surface of the given parquetry-fillet	
$F_{SP} = b \bullet 1$	F_{SP} = surface of the parquetry-fillet
F _{SP} = 60 mm • 400 mm	
$F_{SP} = 24\ 000\ mm^2$	
6. Calculation of the required number of mosaic parquetry-fillets	
MP = Fp : Fmp cd3wddvd/NoExe/Master/dvd001//meister10.htm	MP = mosaic parquetry-fillet

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MP = (22 205 000 mm ²)/ MP = <u>9252.08</u>	/(2 400 mm ²)	
9300 mosaic parquetry-fi	llets are required.	Rounding the number up is necessary because waste material must be considered.
7. Calculation of the requ parquetry-fillets	ired number of	
$SP = F_R : F_{SP}$		SP = parquetry-fillet
SP = (22 205 000 mm ²)/ SP <u>925.21</u>	(24 000 mm ²)	
950 parquetry-fillets are	required.	





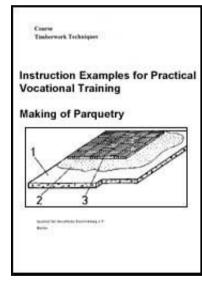


Single parts of parquetry

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- (introduction...)
- Preliminary Remarks
- Instruction Example 7.1.: Determining the Material Requirement of Single Parts of Parquetry for a Given Room
- **Instruction Example 7.2.: Laying of Mosaic Parquetry**
 - Instruction Example 7.3.: Laying of Parquetry -Technique: pasted on solid ceiling, belt or ship's bottom pattern, parquetry-fillet with fixed tongue
 - Instruction Example 7.4.: Laying of Parquetry -Technique: nailed on planed boarded floor, belt or ship's bottom pattern, parquetry-fillets with movable tongues

Instruction Example 7.5.: Finishing and Sealing of Parquetry

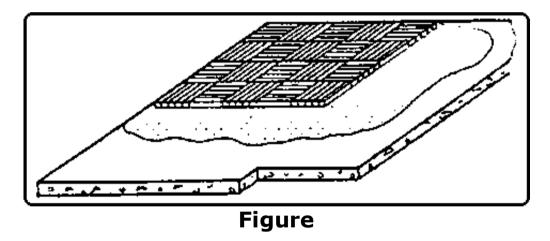
Instruction Example 7.2.: Laying of Mosaic Parquetry

Technique: pasted on solid ceiling

Practising of mosaic parquetry laying

Material

Mosaic parquetry-fillets, parquetry adhesive, adhesive thinner



Tools

Hand saw, hammer, plane, broom, pushing and drawing scrapers

Measuring and testing means

Try square, flat square, folding rule, pencil, water-level, pipe-level

Auxiliary accessories

Bucket, string, steel bolts, knee pad

Required basic knowledge

Scribing, sawing, adhesive processing, laying of building components along a string, jointing

Explanations to the working drawing

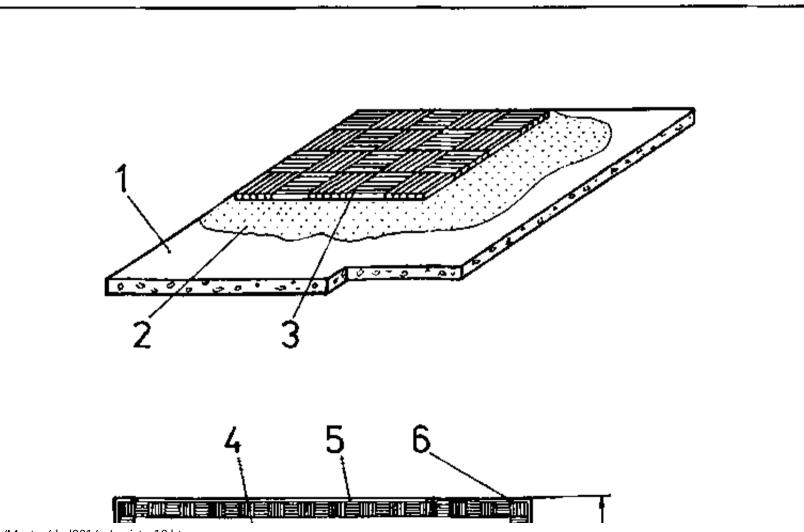
1 subfloor, 2 adhesive bed, 3 mosaic parquetry, 4 string, 5 distance to the wall, 6 steel bolt, 7 1st laying direction, 8 2nd laying direction

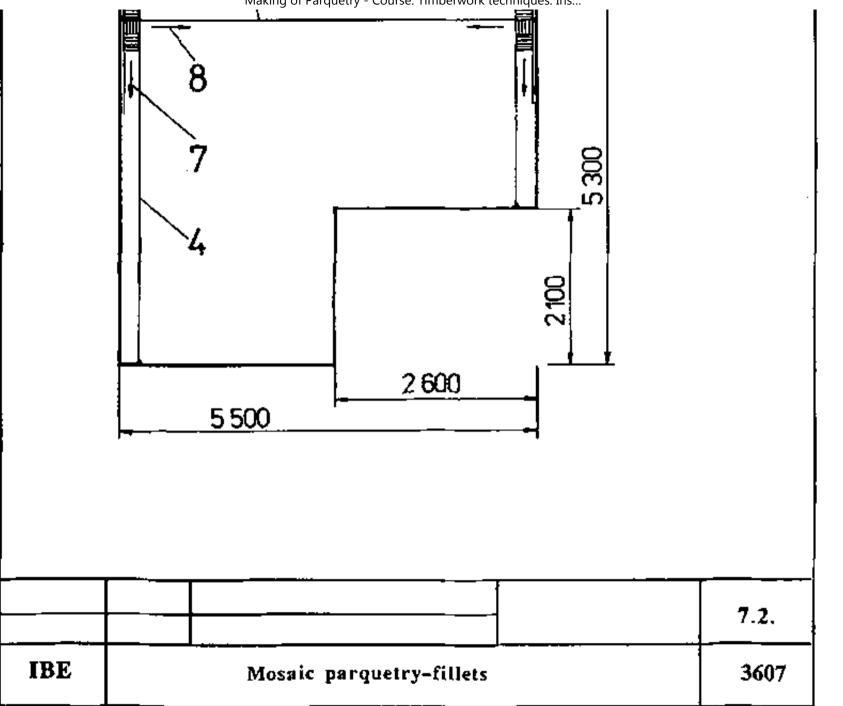
Sequence of operations	Comments
 Checking the subfloor for strength, moisture content and horizontal surface. 	Subfloor must be free of cracks, firm, retain a constant volume and be <u>dry</u> . The horizontal surface has to be checked with the help of a pipe- level, straight-edge or water-level.
2. Taking small parquetry-fillets, as many as required (vis. instruction example 1), and transporting them to the place of use,	Faulty fillets are sorted out, processing losses have to be considered.
3. Drawing off adhesive and thinner and transporting	Attention!

niques. Ins
Pay attention to the instructions of the manufacturer - often toxical or injurious to health.
Make sure that the equipment is complete.
Primary coat is made from thinned adhesive and is applied by sectors, evenly and over the entire surface of each sector by a drawing scraper. Observe regulations on health protection: Knee-pad, risk of splashing in the eyes, of acid skin bum, of poisonous and sometimes inflammable vapours.
Pay attention to the angles and to parallelism.
When laying the fillets, observe the intended pattern. Be absolutely accurate along the alignment string.

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hammer blows.	Replace faulty fillets, consider
9. Cleaning the working place.	Remover eplaced myets etc., clean the tools, close vessels and take all this out of the room. Let the parquetry set for at least 2 days.



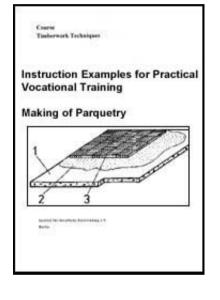


Mosaic parquetry-fillets





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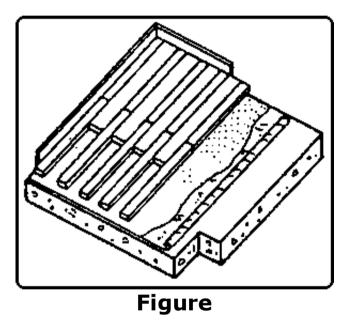
Instruction Example 7.3.: Laying of Parquetry - Technique: pasted on solid ceiling,

belt or ship's bottom pattern, parquetry-fillet with fixed tongue

Practising of parquetry laying according to the above mentioned technique.

Material

Parquetry-fillets, parquetry adhesive, adhesive thinner, sealing cardboard such as bituminous felt, bare, cold glue for wood.



Tools

Hans saw, circular saw bench, hammer, plane, tow hook, broom, pushing scraper, drawing scraper

Measuring and testing means

Try square, flat square, folding rule, pencil, water-level, pipe-level

Auxiliary accessories

Bucket, string, steel bolt, knee pad

Required basic knowledge

Scribing, sawing, glue processing, laying of construction elements along the string, jointing

Explanations to the working drawing

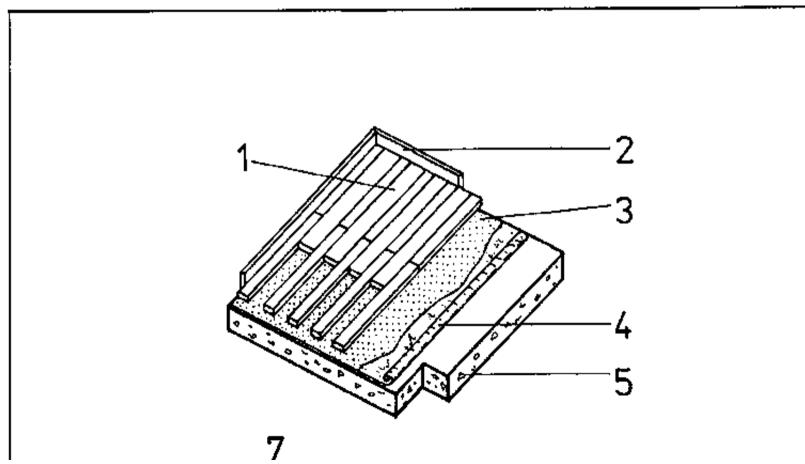
1 parquetry, 2 skirting board, 3 glue bed, 4 bituminous felt, 5 subfloor, 6 string, 7 distance to the wall, 8 steel bolt, 9 bituminous felt webs, 10 1st laying direction, 11 2nd laying direction

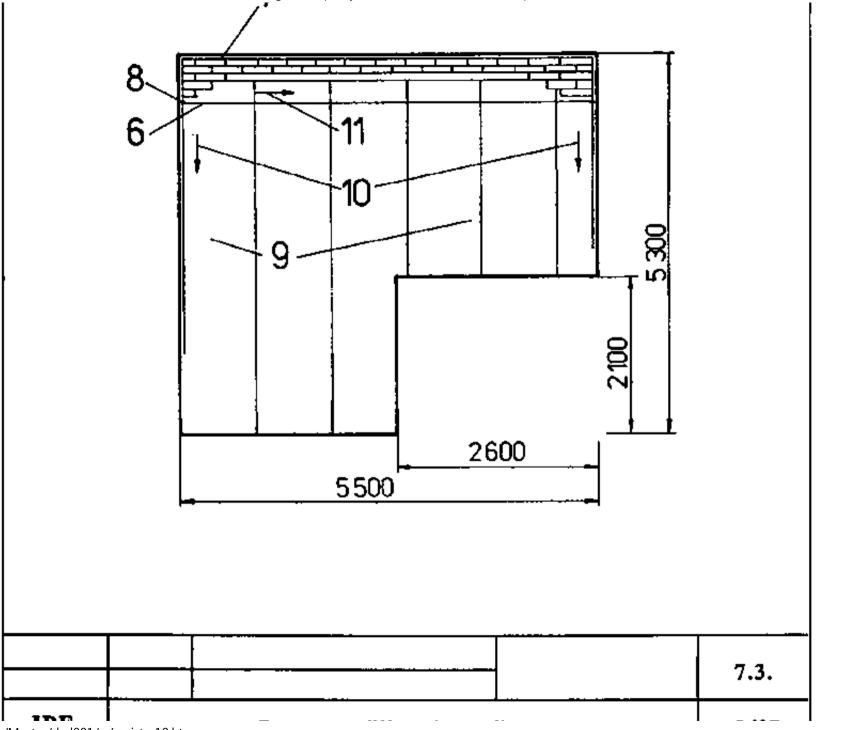
Sequence of operations	Comments
1. Checking the subfloor of the parquetry.	
2. Cleaning the subfloor carefully with hair broom and pushing scraper.	All foreign parts that can be made loose must be carefully removed.
3. Filling the glue in a bucket and transporting it to the working site together with the sealing cardboard.	Be careful when using glue, pay attention to the instructions of the

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		manufacturer.
4. Unwi	nding sealing cardboard and cutting it to length.	The length of the webs must
		correspond to the
		dimensions of the
		room.
5. Layin	ig of the cut webs with the lateral seams edge to edge, and	The webs must not
fitted to	recesses and projections.	overlap in any place.
	ng the unwound webs back to the middle of the respective	On the opposite end
	d - after the primary coat has been applied according to	of the webs the
	ion Example 7.2 spreading the glue with the drawing	sequence of
	, rolling the webs in place again, pressing them on and	operations is
	them into the glue.	analogous.
driven i	ng up the string for the first two fillet rows on the steel nails n before, joining approximately 1 m of the length of the fillet	put up angularly and
		parallel to the room.
	ng into the bed of glue, pressing it on and aligning it with the	
neip or	the string.	20 mm along the wall.
	e end of the two rows marking top cut, cutting with saw and	Before that, the last
laying v	vith tow hook.	3 fillets must get a
		cold glue coating on
		the head end.
9. Furth	ner laying of the parquetry rows along the string and by	Aligning the laid

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analogy to the first two rows.	parquetry fillets in the direction of the
	wall - check for
10. Remaining space to be covered with parquetry: If required, scribing longitudinal cut, cutting with circular saw bench and laying with tow hook.	horizontal position! Coat the last 3 fillets with cold glue on the longitudinal sides before.
11. Cleaning the working site.	





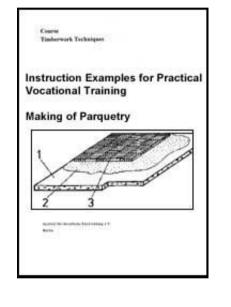
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Parquetry-fillets (pasted)

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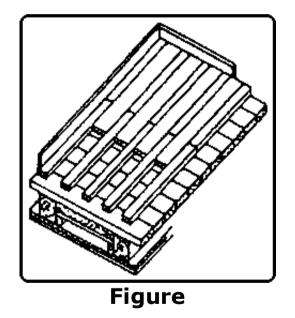
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- Technique: nailed on planed boarded floor, belt or ship's bottom pattern, parquetry-fillets with movable tongues
- Instruction Example 7.5.: Finishing and Sealing of Parquetry

boarded floor, belt or ship's bottom pattern, parquetry-fillets with movable tongues

Practising of parquetry laying according to the above technique.

Material

Parquetry-fillets with tongues, countersunk nails (2 pieces per fillet)



Tools

Hand saw, circular saw bench, hammer, nail tongs, plane, tow hook, nail punch, broom

Measuring and testing means

Try square, flat square, folding rule, pencil, water-level, pipe-level

Auxiliary accessories

String, steel bolts, knee pad

Required basic knowledge

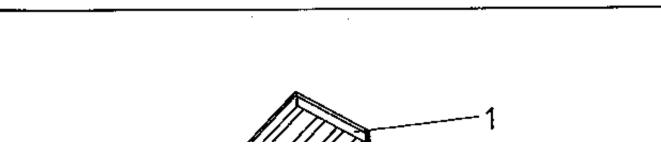
Scribing, sawing, laying of building components along the string, jointing

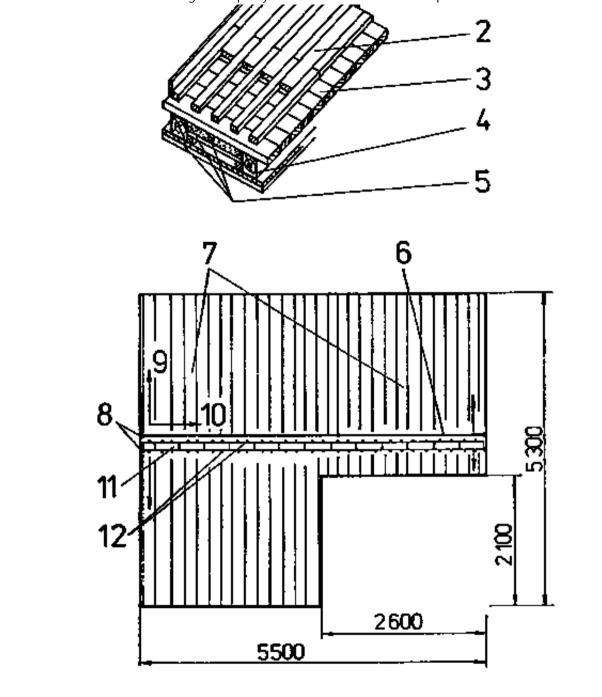
Explanations to the working drawing

1 Skirting board, 2 parquetry, 3 planed deals, 4 timber beam, 5 ceiling structure, 6 string, 7 planed boarding, 8 steel bolt, 9 1st laying direction, 10 2nd laying direction, 11 1st layer of parquetry-fillets, 12 nailing of two sides (1st layer)

Sequence of operations	Comments
 Testing the wooden subfloor as to strength, moisture and vermin infestation. 	The deals must be firmly nailed, must not project or be moist and must be free of vermin.
2. Sweeping the subfloor clean and removing the dust.	
3. Fixing the middle row and putting up the string along the middle row stretching it with the help of the steel bolts.	String must be angular and parallel to the wall.
4. Distributing the parguetry-fillets and putting in the tongues	Sort out faulty parquetry-

on one head end.	fillets when distributing
	them.
5. Laying the middle row of parquetry-fillets along the string and nailing them on the subfloor on both sides with two nails per fillet, scribing the head-end cut, sawing it and laying it with the help of the tow hook, coating the last three head end with cold glue before.	The nails are driven obliquely into the rabbet. The nails are countersunk
Distributing the required parquetry-fillets on the left and right sides of the middle row and putting the tongues in the fillets.	One tongue in one head end and longitudinal side, each.
 Removing the string from the middle row and continuing to lay parquetry-fillets along the middle row, nailing each external end with 2 nails on the subfloor. 	
 Cut final row, if required, longitudinally; therefore scribing, cutting to length and laying with tow hook. Coating the sides of the last row with cold glue before. 	, Leaving an air gap of 20 mm along the wall.
9. Cleaning the working place.	





Parquetry-fillets (naíled)	
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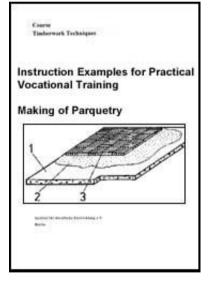
Parquetry-fillets (nailed)

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bottom pattern, parquetry-fillets with movable tongues Instruction Example 7.5.: Finishing and Sealing of Parquetry

Instruction Example 7.5.: Finishing and Sealing of Parquetry

Practising of parquetry finishing and sealing irrespective of the type of parquetry

Material

Parquetry sealing lacquer, thinner, joiner's putty

Tools

Broom, brush, paint roller, abrasive paper, sandpaper block, pushing scraper, grinder

Auxiliary accessories

Bucket, can

Required basic knowledge

Handling a grinder, working with parquetry sealing lacquers and knowledge of their properties, coating methods

Sequence of operations	Comments	
1. Once again cleaning parguetry thoroughly with		29/30

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broom, detecting small faults. 2. Reworking faulty spots, such as cracks, knots and defective edges with the help of scraper and joiner's putty.	If - in spite of the careful selection of the parquetry-fillets - there should be deeper holes or defects, the joiner's putty is applied in layers.	
3. Smoothing the floor with the grinder in circular motions until an even and plane surface is achieved.	When grinding, make sure that no corrugations appear.	
4. Sweeping smoothed floor carefully.	Do only walk with soft and clean shoes on smoothed floor.	
5. Putting on the first layer of the sealing lacquer - along the edges with brush, in the middle with paint roller.	When applying the lacquer coat make sure that no foreign bodies, such as shavings or rough particles of dust, are left under the lacquer coat.	
6. After the first coating has dried, smoothing minor imperfections such as wood fibres that were put upright by fine-grained abrasive paper. Removing grinding dust carefully.	First coat will have dried after approximately 24 hours.	
7. Applying two other coats of sealing lacquer at the appropriate intervals.	If required, unevennesses can be smoothed again here and there.	
8. Cleaning the working place.	Painting tools are washed in thinner.	

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