LAMPIRAN

Lampiran 1. Data Distribusi

Pelanggan	Distribusi Periode Ke-												
	1	2	3	4	5	6	7	8	9	10	11	12	13
C-1	1000	1000	1000	1500	1500	1000	2000	2000	2000	2000	1500	1500	1500
C-2	400	400	400	400	400	400	400	400	400	400	400	400	400
	600	600	600	600	600	600	600	600	600	600	600	600	600
C-3	1500	1000	1000	1500	1500	1500	1000	1000	1500	2000	1000	1000	1500
C-4	3000	2000	4000	4000	3000	2500	4000	3500	3000	3000	4000	4000	2500
C-5	5000	4000	4000	4000	5000	5000	5000	4000	5000	5000	4000	4500	4000
	10000	8000	8000	8000	10000	10000	10000	8000	10000	10000	8000	9000	8000
C-6	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
C-7	4000	3000	3000	4000	5000	3000	3000	3000	3000	5000	4000	3000	3000

Pelanggan	Distribusi Periode Ke-												
	14	15	16	17	18	19	20	21	22	23	24	25	26
C-1	2000	2000	1000	1000	1500	1500	2000	1000	1500	1500	1500	1500	1500
C-2	400	400	400	400	400	400	400	400	400	400	400	400	400
	600	600	600	600	600	600	600	600	600	600	600	600	600
C-3	2000	2000	1000	1500	2000	2500	1000	1000	1500	1500	1500	1000	2000
C-4	2500	3000	4000	4000	3000	3000	4500	4000	3000	2500	3500	3500	4000
C-5	5000	5000	4000	4000	4500	5000	5000	4000	5000	5000	4000	4000	4500
	10000	10000	8000	8000	9000	10000	10000	8000	10000	10000	8000	8000	9000
C-6	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
C-7	5000	4500	5000	4000	4000	5000	4000	4500	4500	5000	4000	4000	5000

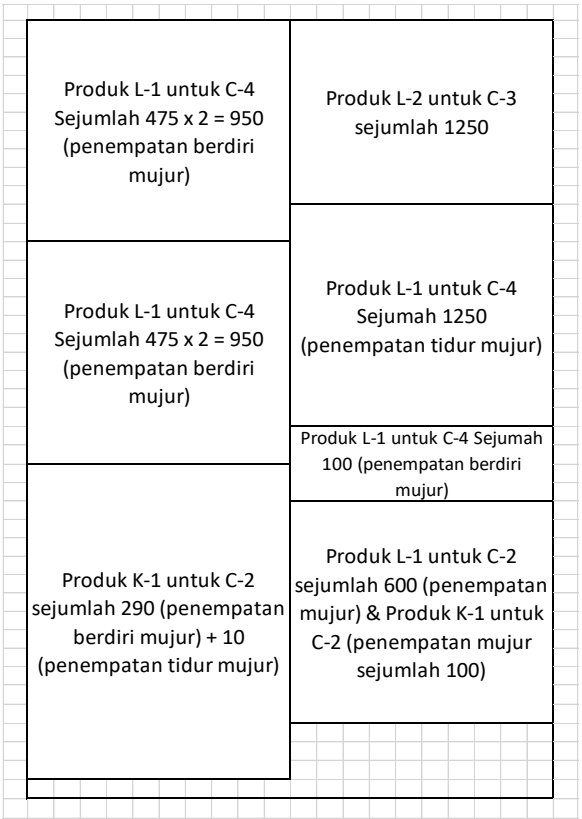
Lampiran 2. Jurnal Pendistribusian

SOPIR	TUJUAN PENGIRIMAN	KEBERANGKATAN		KEDATANGAN		BIAYA	KETERANGAN
		JAM	KM	JAM	KM		
PARMAN	IPM	08.05	22345	08.50	22363	Rp 40.000,00	BELI SOLAR
EKO	KML	08.05	14593	09.35	14628	Rp 75.000,00	BELI SOLAR
	EVM	10.00	14628	11.30	14678		
HUDA	GIR	08.05	47577	11.00	47647	Rp 100.000,00	BELI SOLAR
	AU	11.45	47647	13.45	47717		
SAMSUL	WIP	08.05	33657	09.05	33667	Rp 50.000,00	BELI SOLAR
	DSI	10.15	33667	11.30	33697		

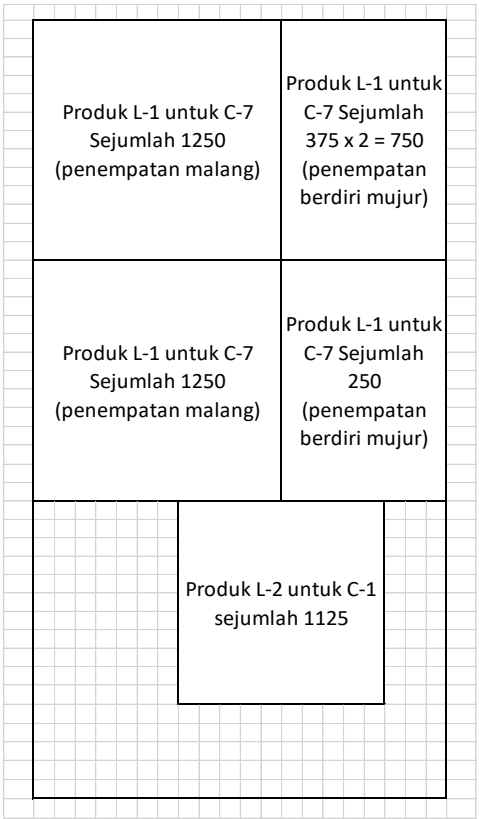
Lampiran 3. Kapasitas dan Layout Penempatan

PERIODE 1

TRUK 1



TRUK 2



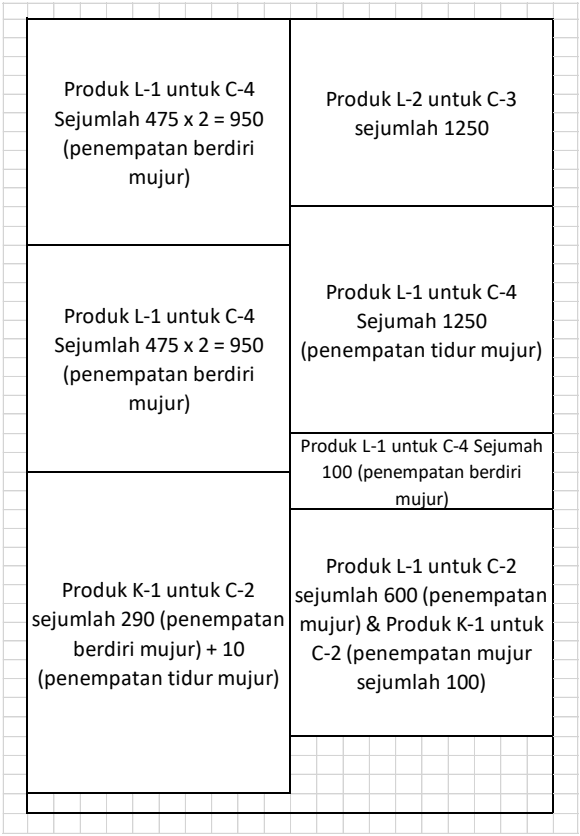
Skala 1: 100 mm

TRUK 3

Skala 1: 100 mm

PERIODE 2

TRUK 1



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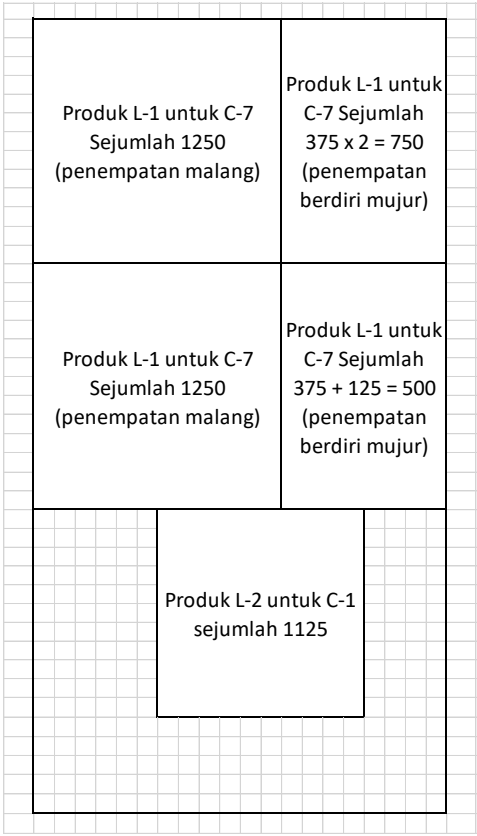

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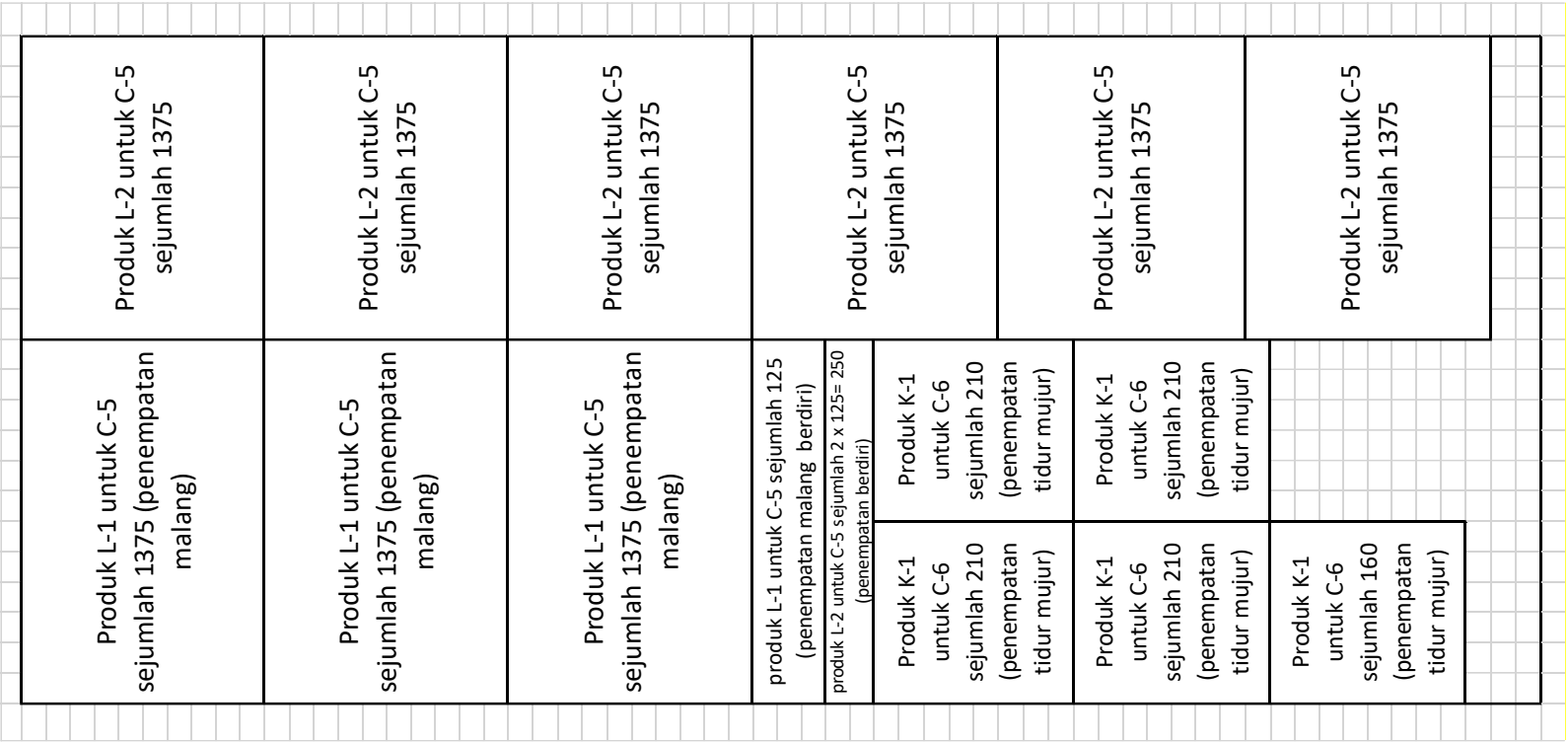
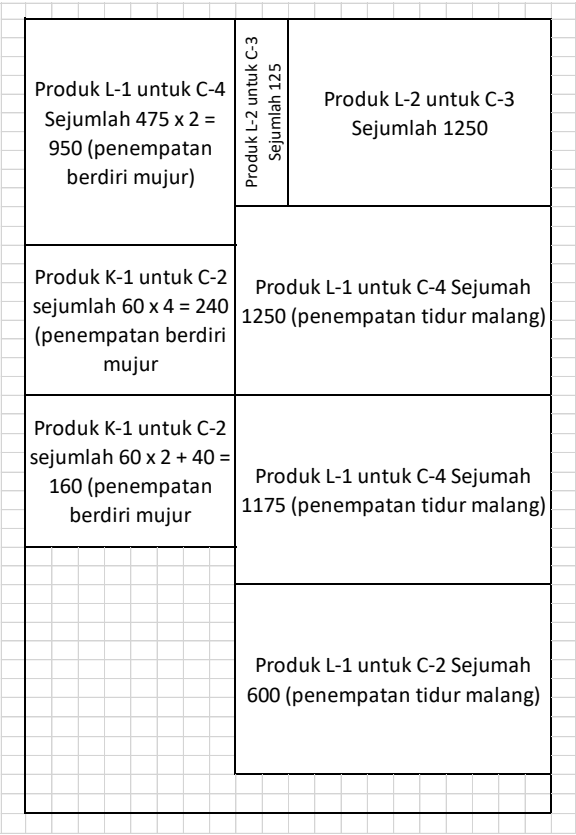


Skala 1: 100 mm

PERIODE 3

TRUK 1



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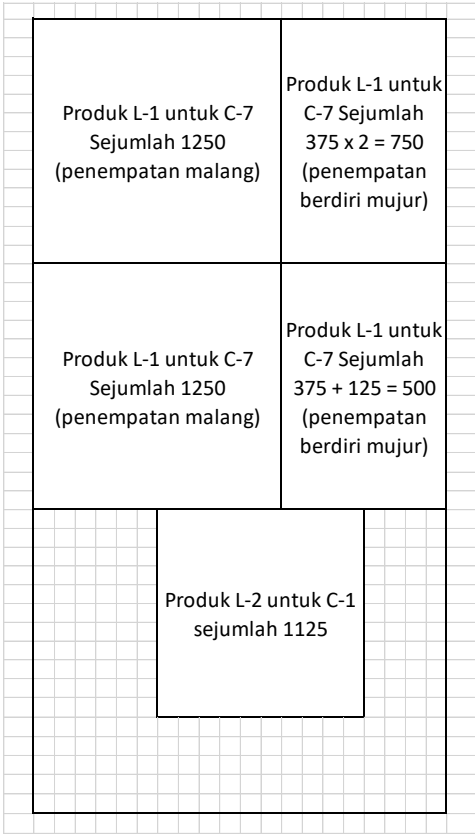

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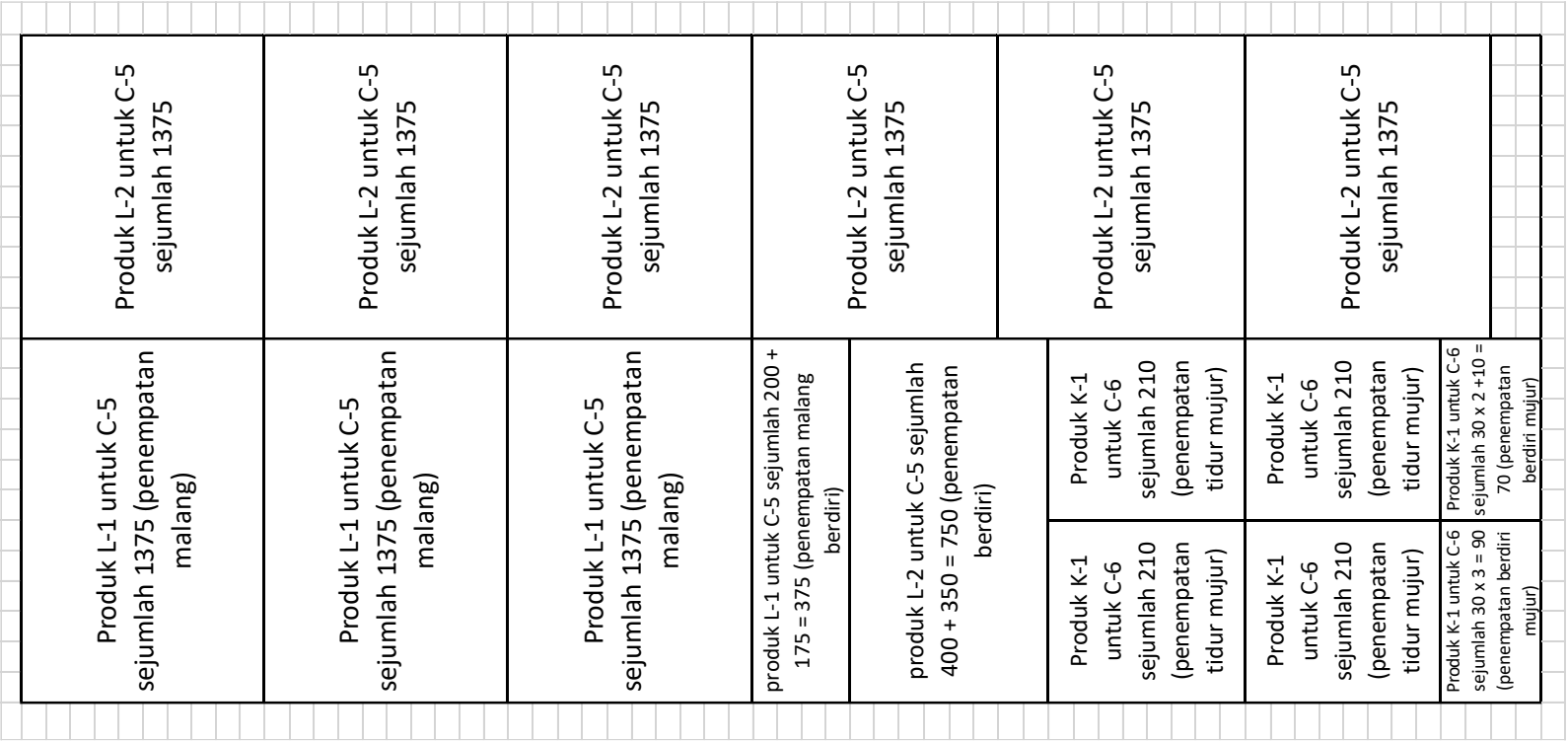

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PERIODE 4

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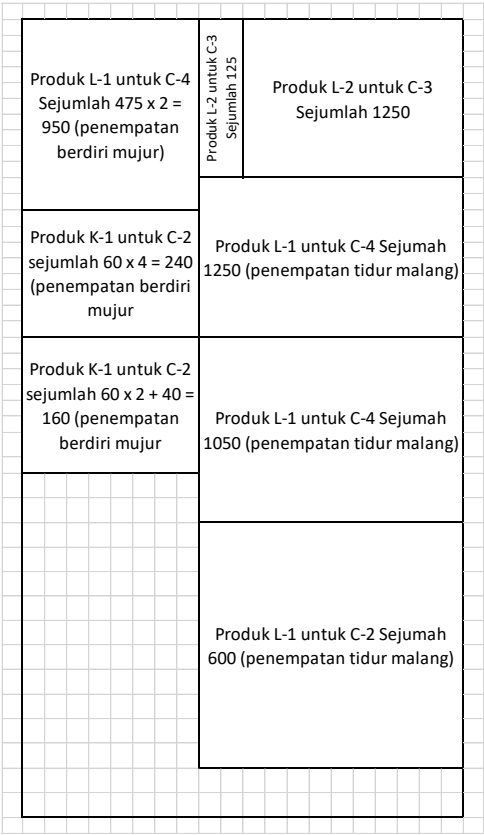

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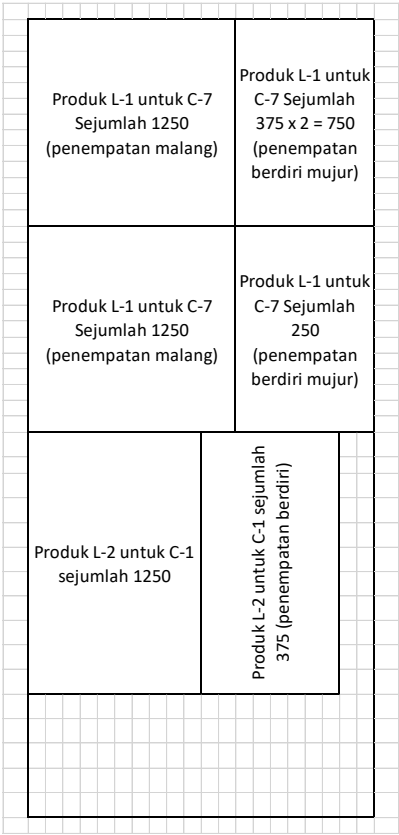


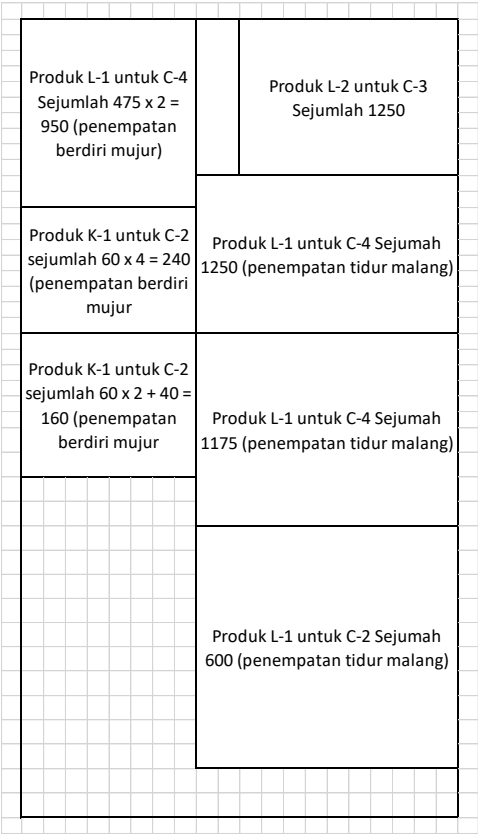
Skala 1: 100 mm

TRUK 3

Skala 1: 100 mm

PERIODE 5

TRUK 1



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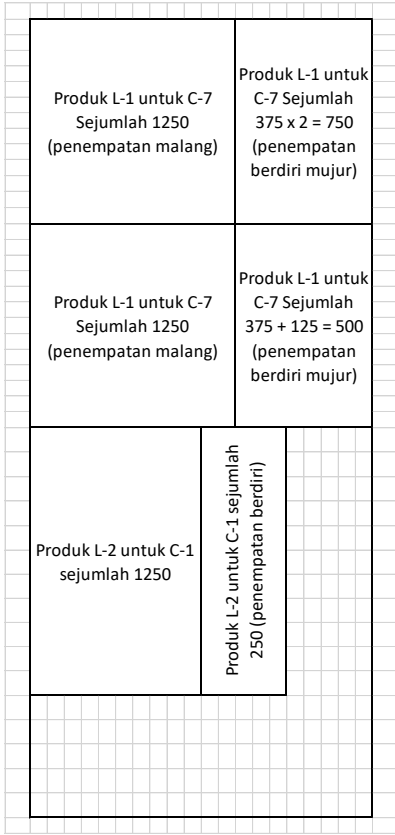


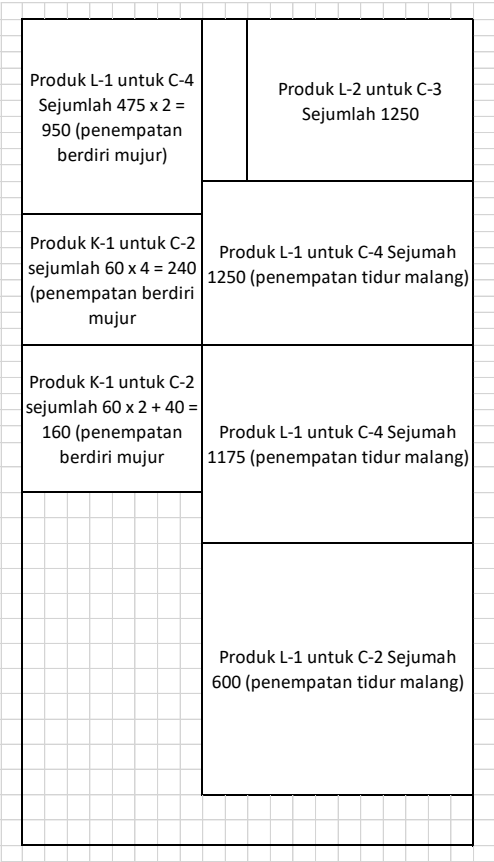
Skala 1: 100 mm

TRUK 3

Skala 1: 100 mm

PERIODE 6

TRUK 1



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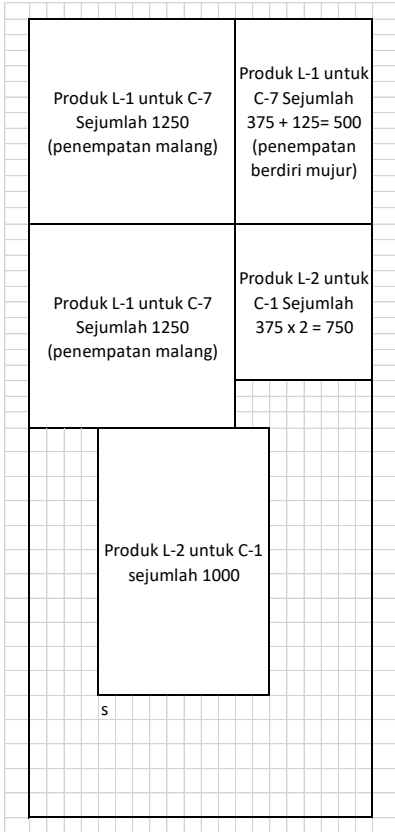


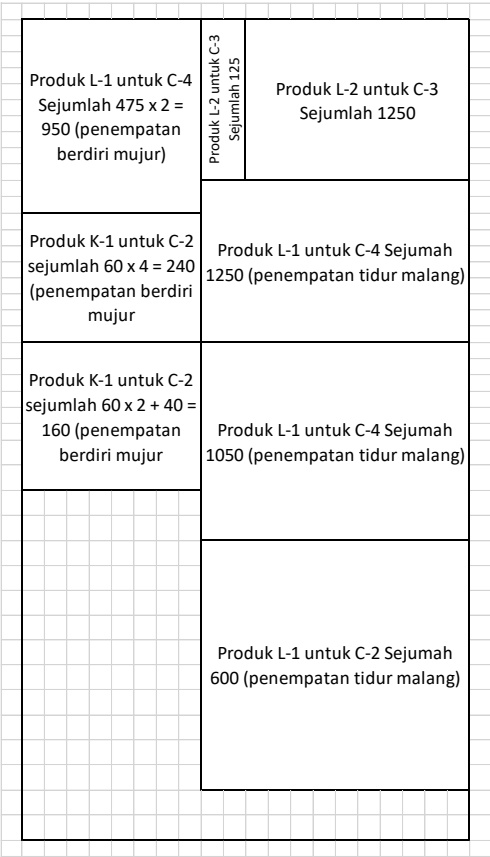
Skala 1: 100 mm

TRUK 3

Skala 1: 100 mm

PERIODE 7

TRUK 1



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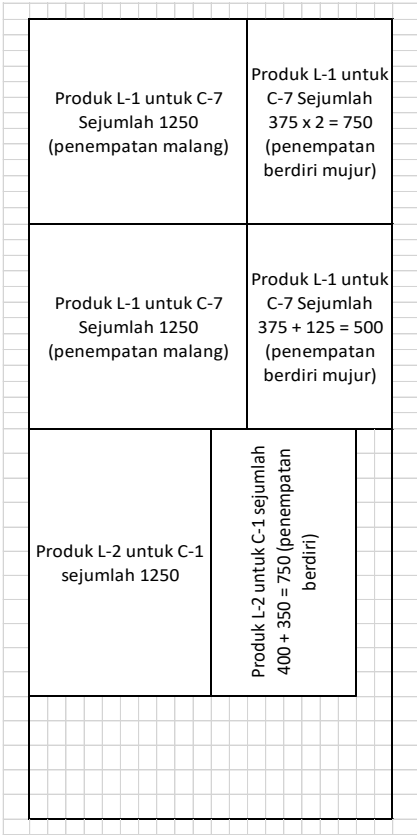


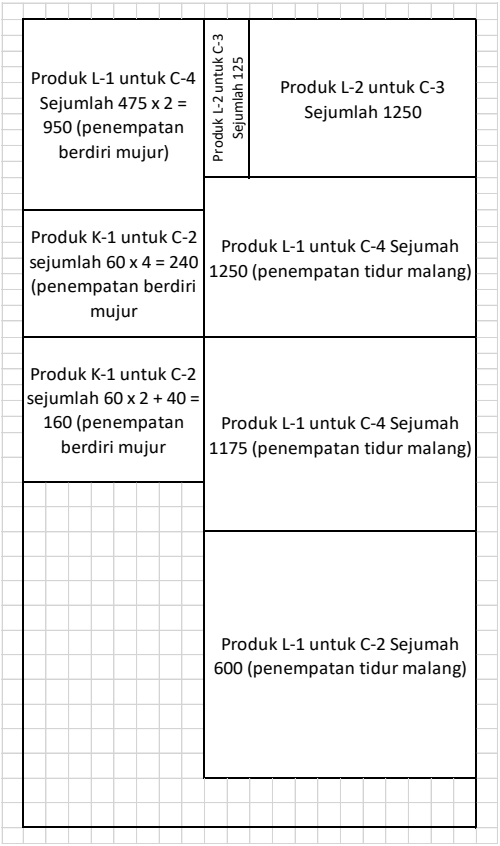
Skala 1: 100 mm

TRUK 3

Skala 1: 100 mm

PERIODE 8

TRUK 1



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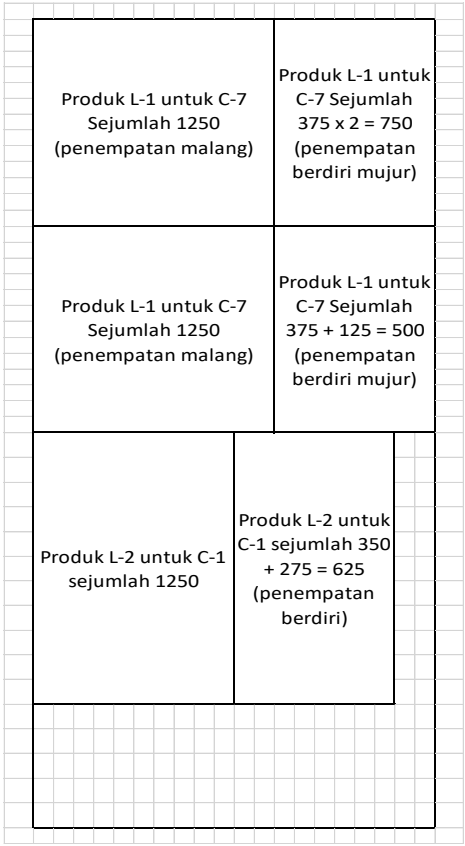


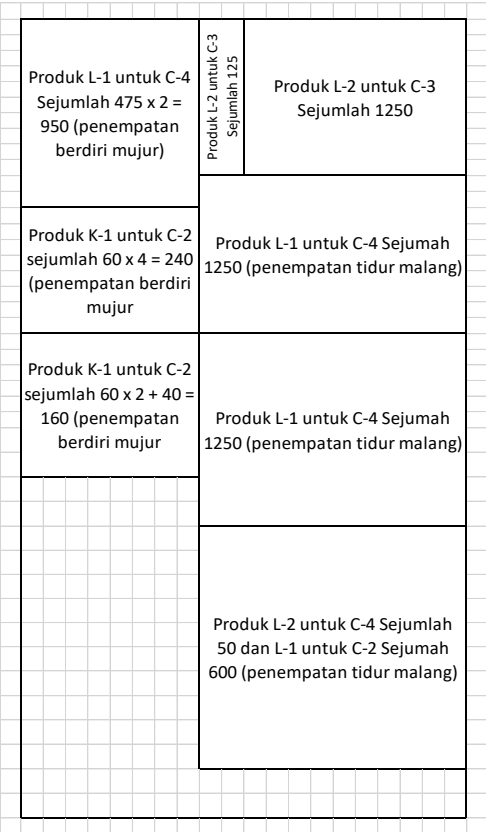
Skala 1: 100 mm

TRUK 3

Skala 1: 100 mm

PERIODE 9

TRUK 1



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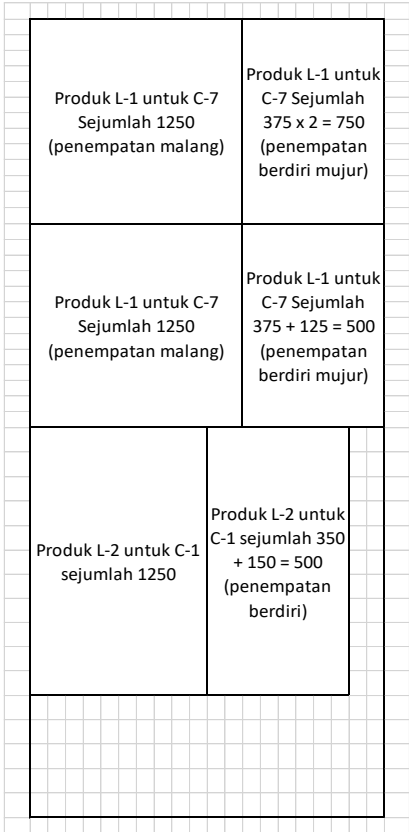

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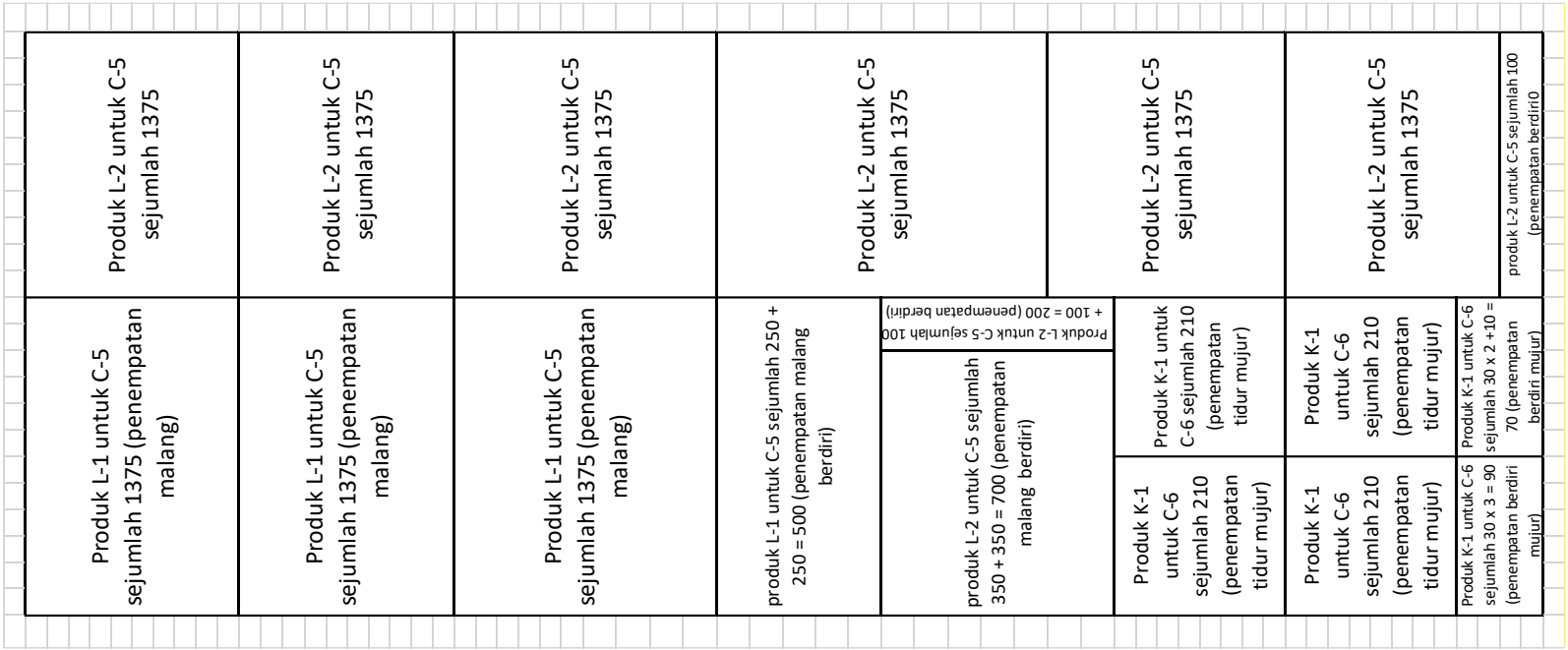
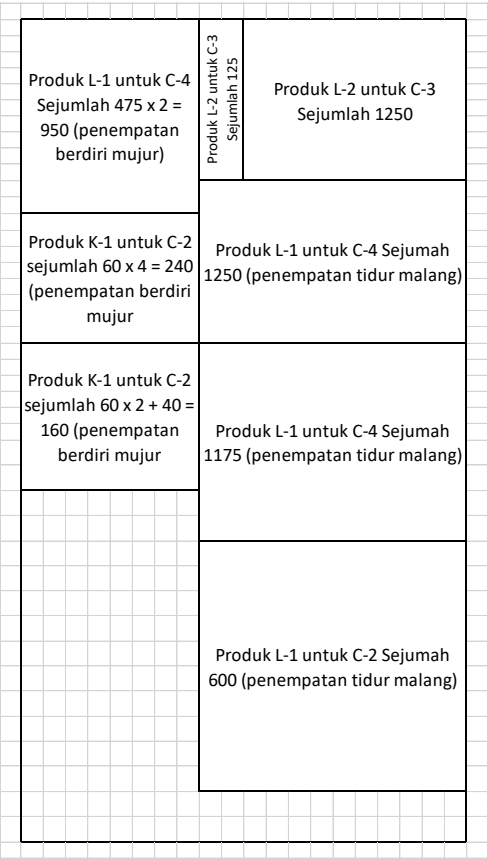


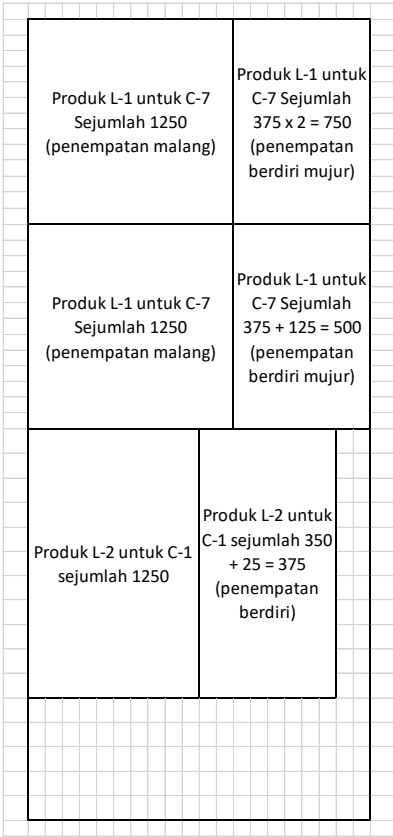
Skala 1: 100 mm

PERIODE 10

TRUK 1



TRUK 2



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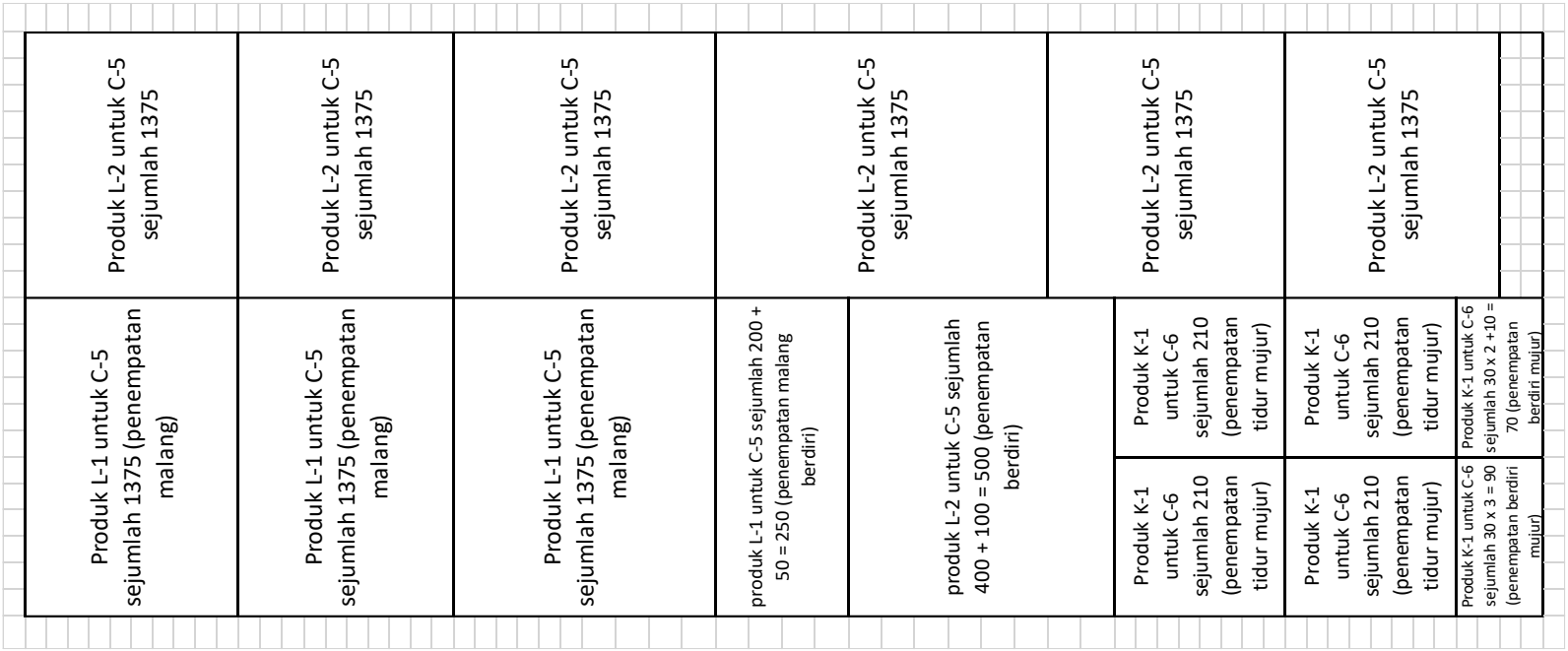
TRUK 3



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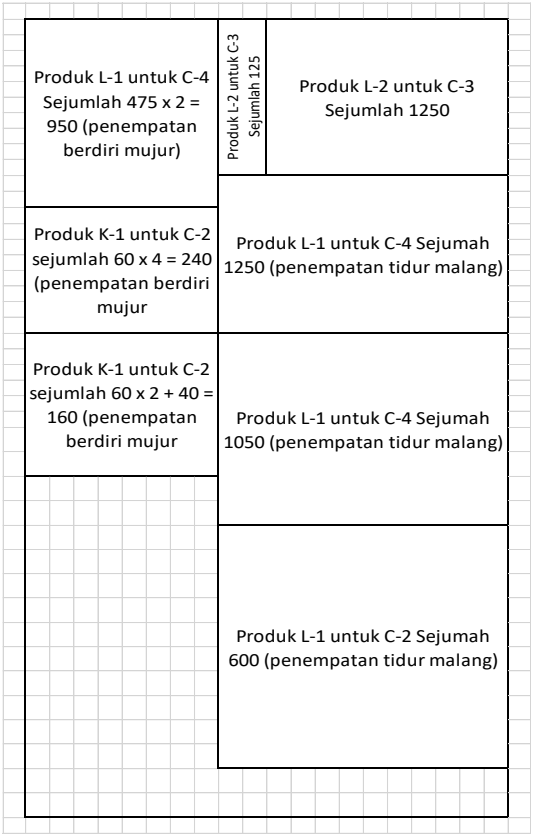
PERIODE 11

TRUK 1



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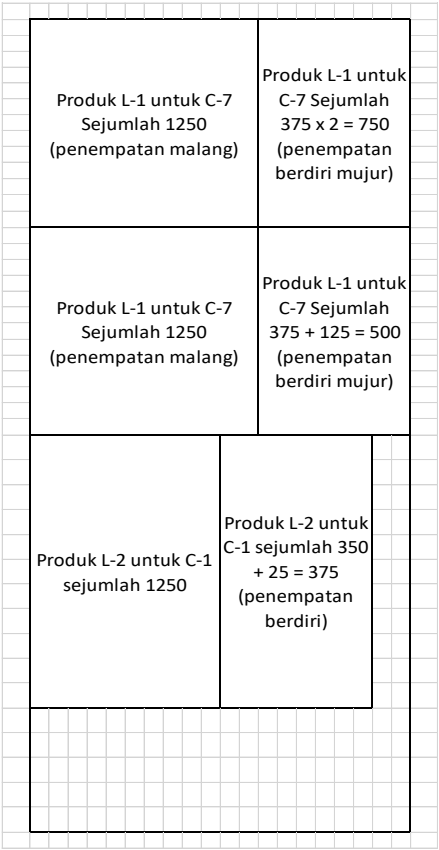

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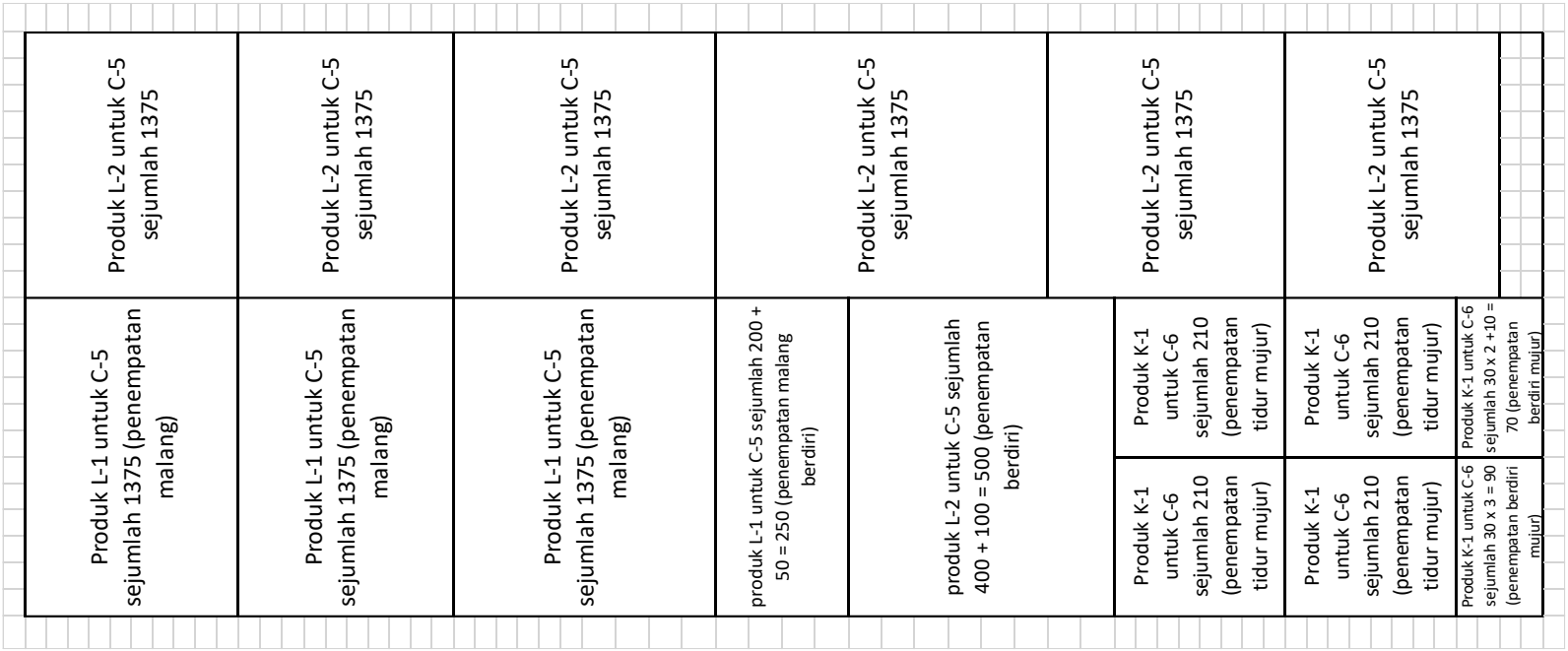

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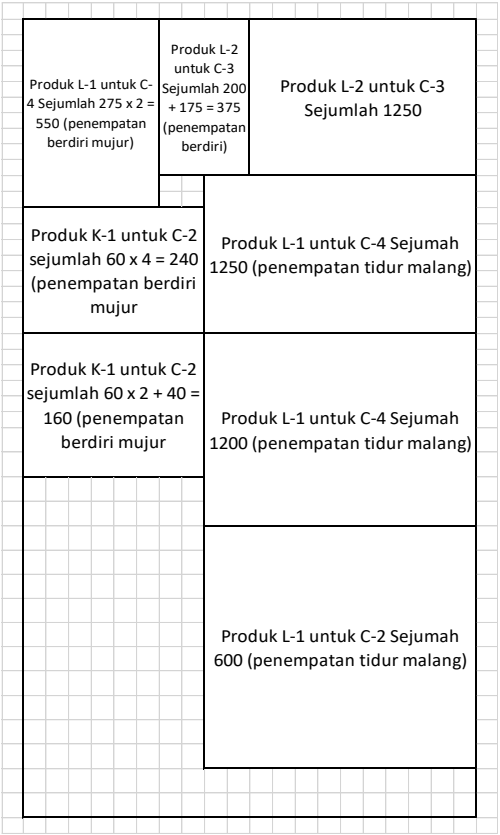
PERIODE 12

TRUK 1



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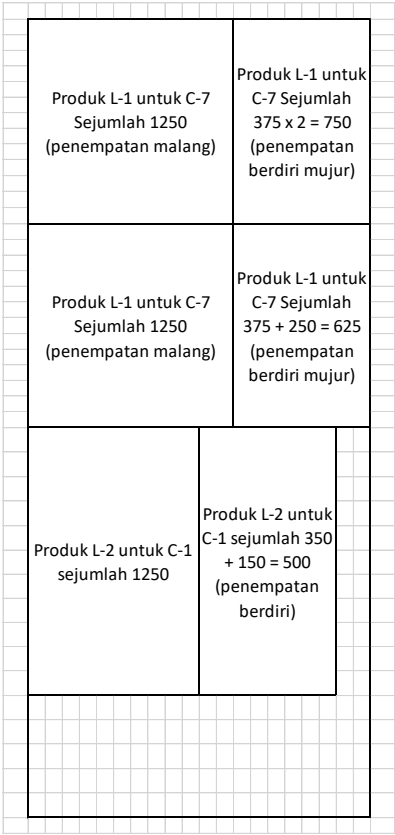
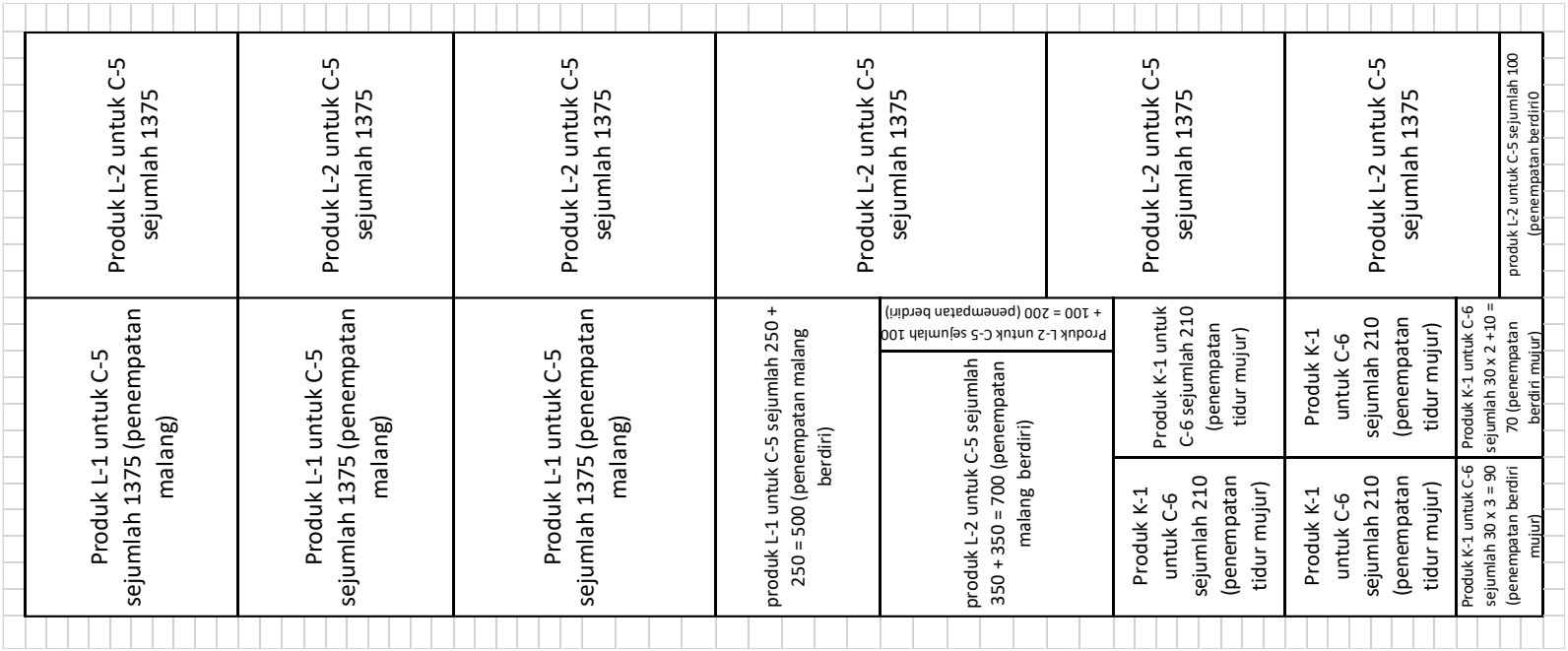


Skala 1: 100 mm

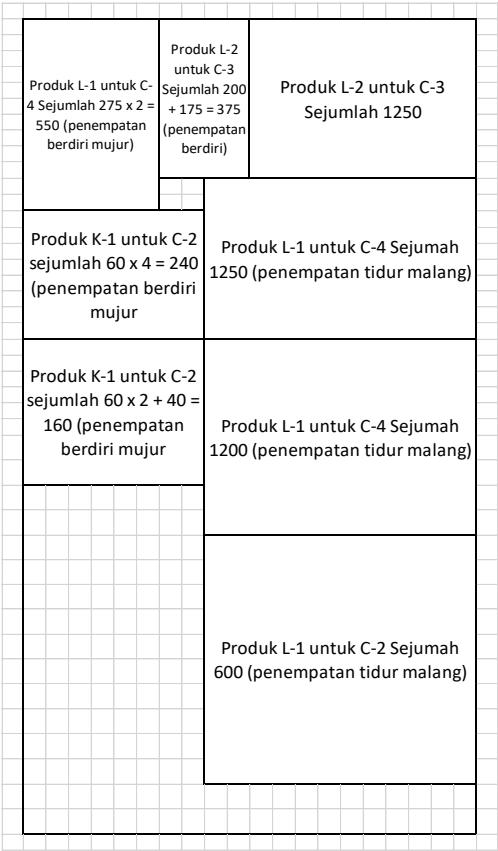
TRUK 3



Skala 1: 100 mm

PERIODE 13

TRUK 1



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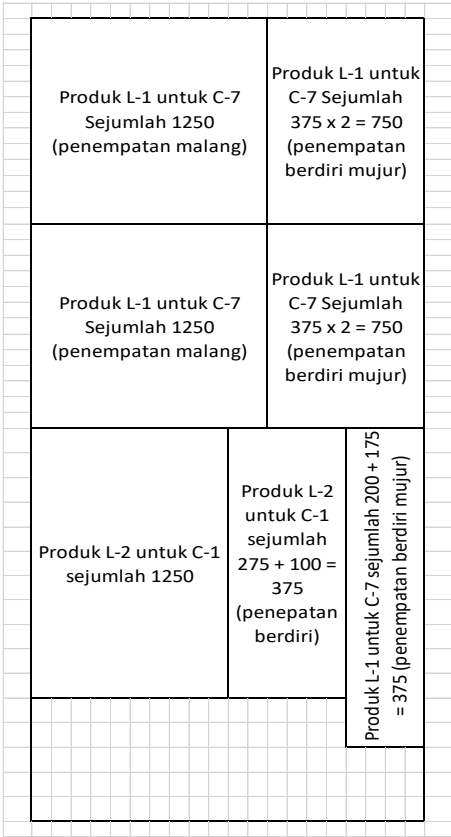

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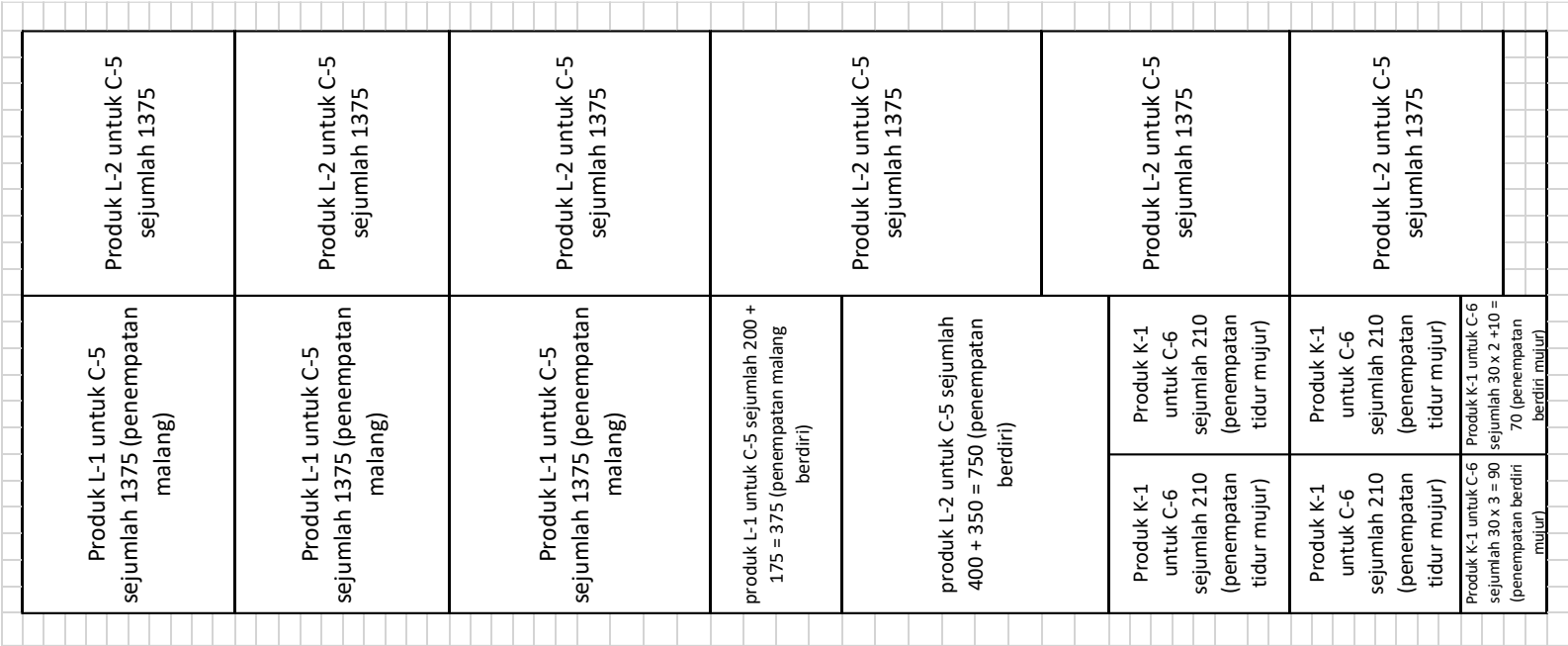
TRUK 3



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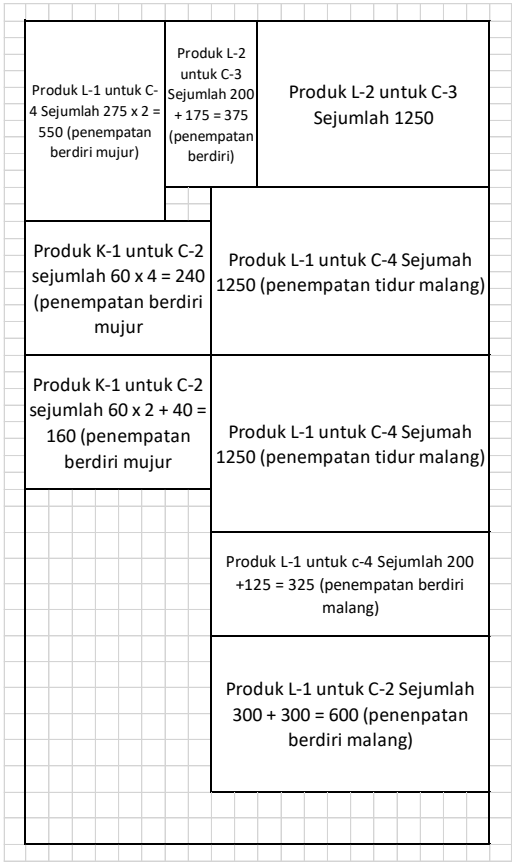
PERIODE 14

TRUK 1



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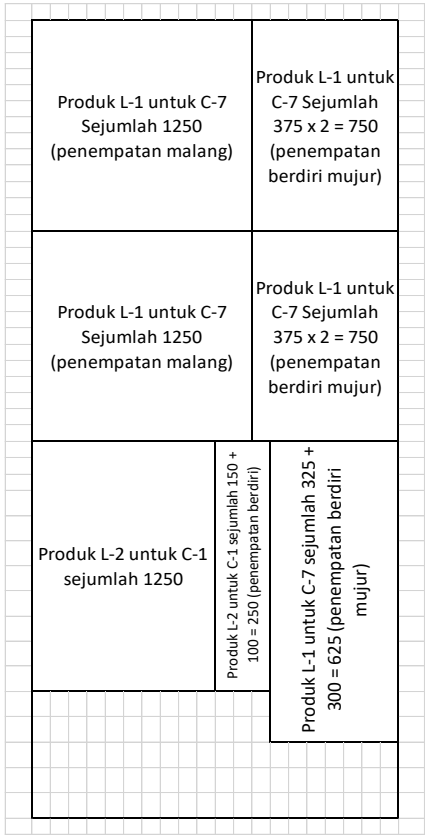


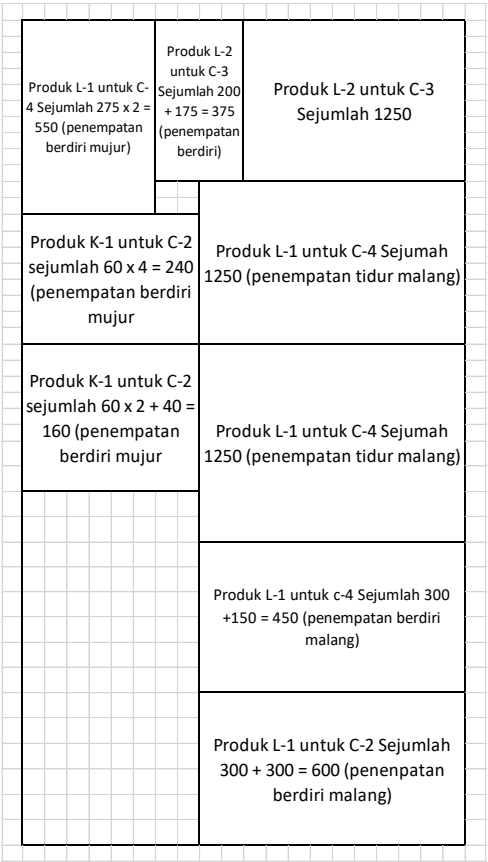
Skala 1: 100 mm

TRUK 3

Skala 1: 100 mm

PERIODE 15

TRUK 1



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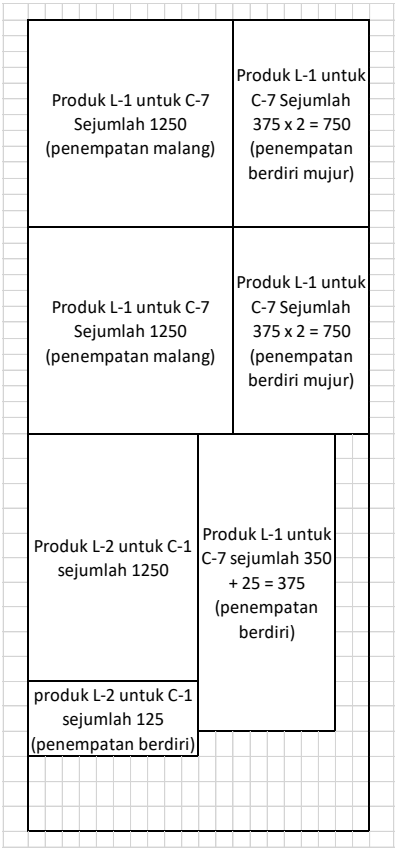

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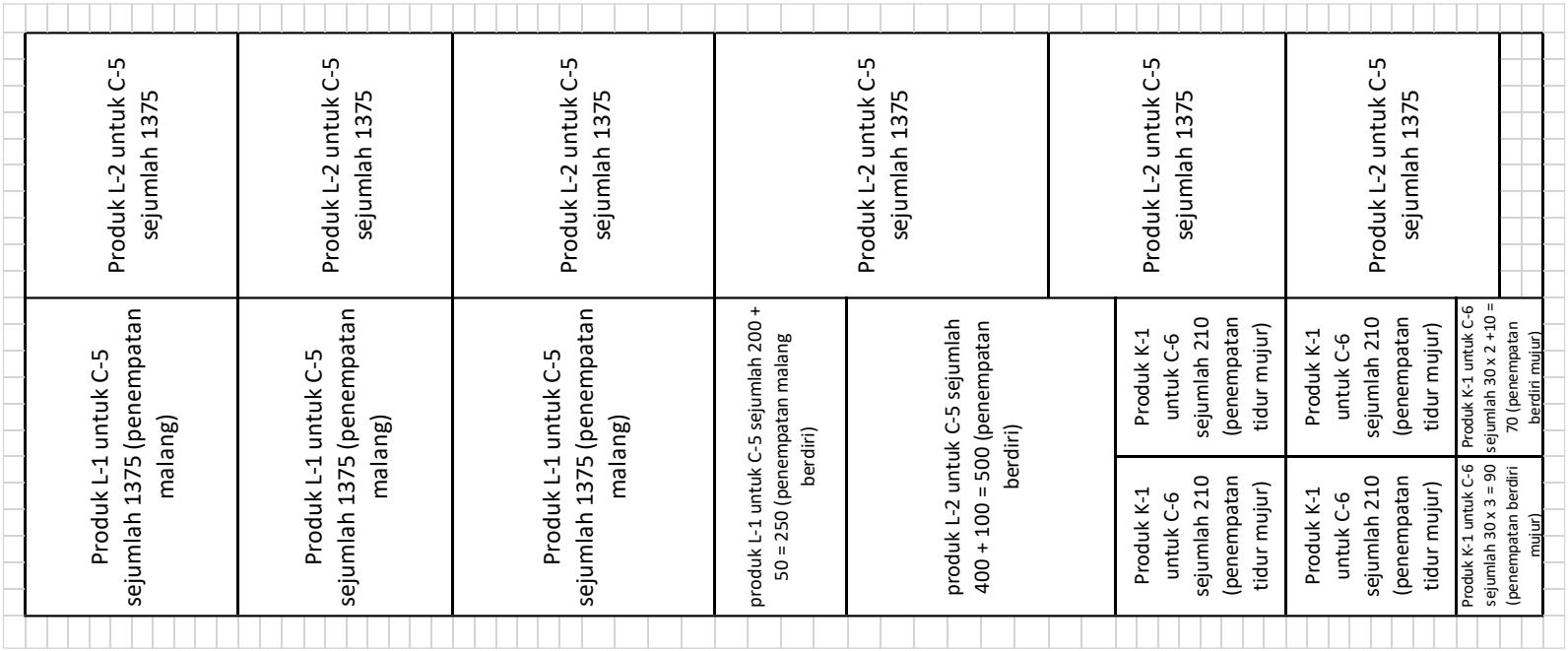
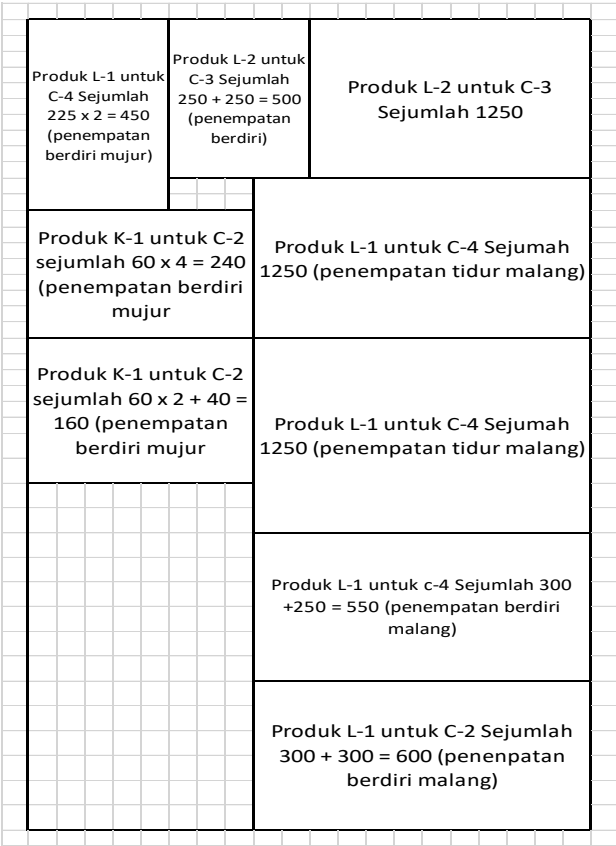


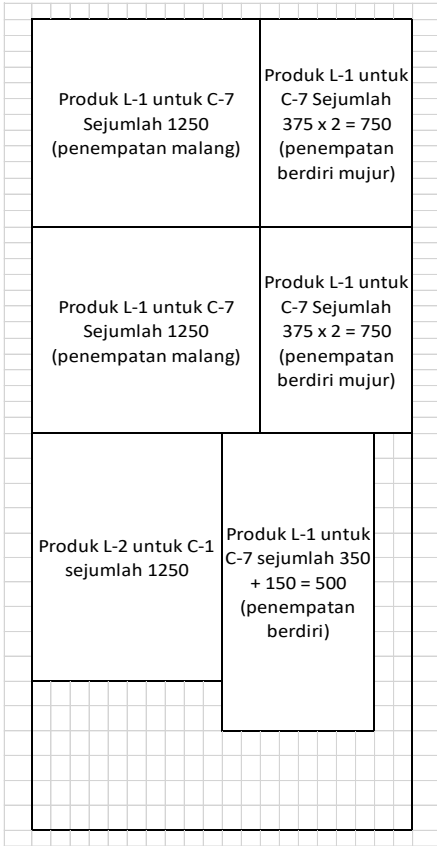
Skala 1: 100 mm

PERIODE 16

TRUK 1



TRUK 2



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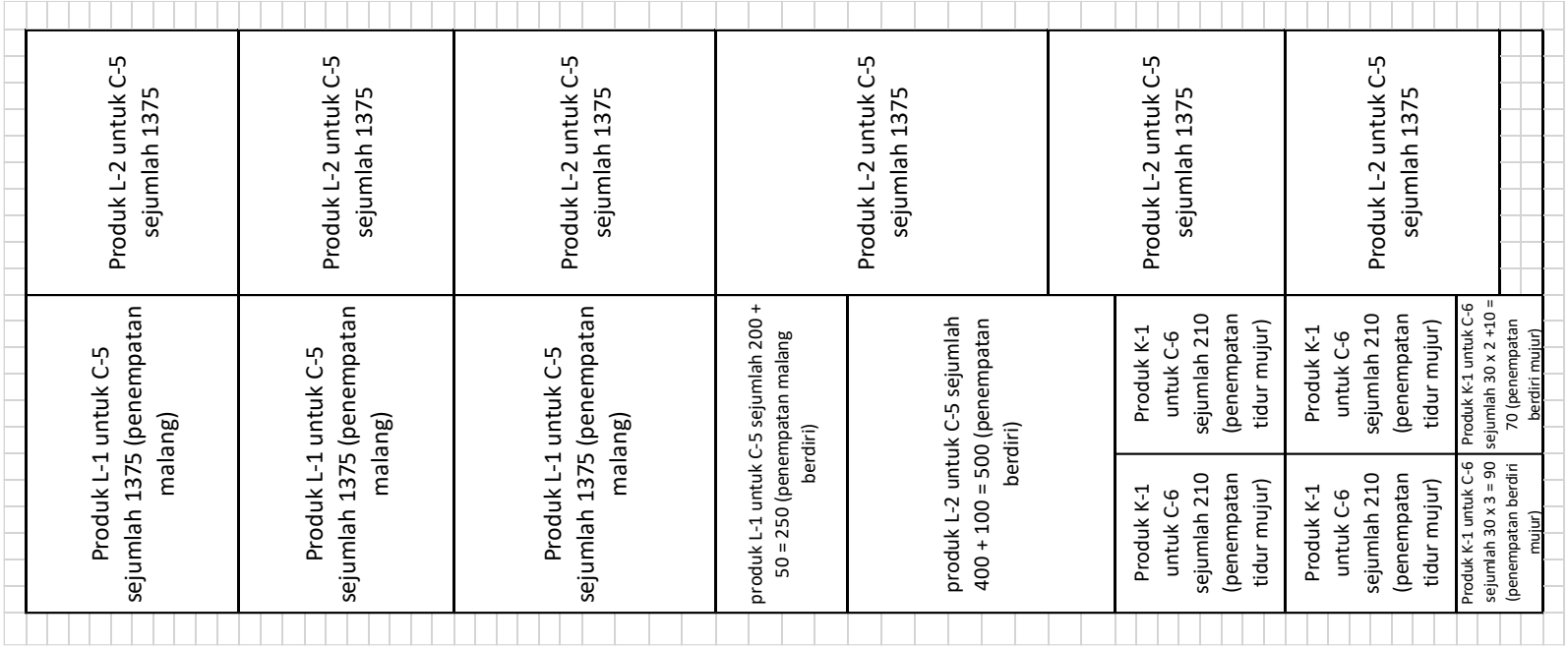
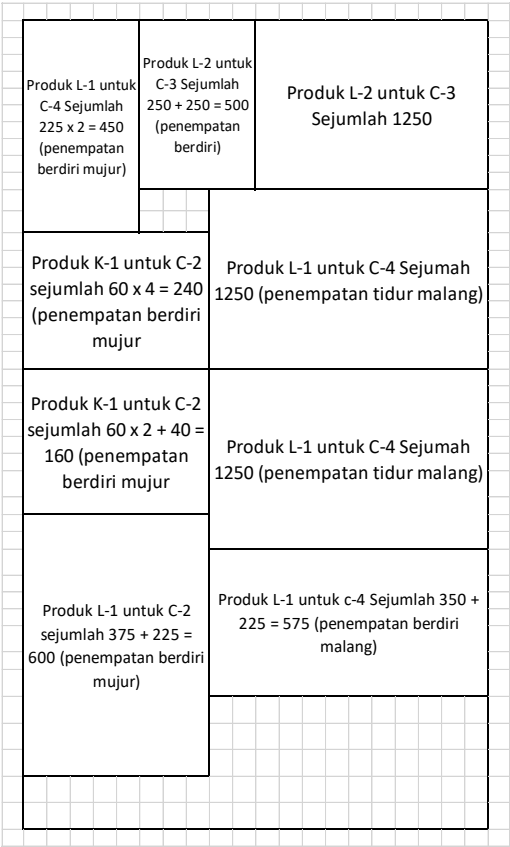
TRUK 3



Skala 1: 100 mm

PERIODE 17

TRUK 1



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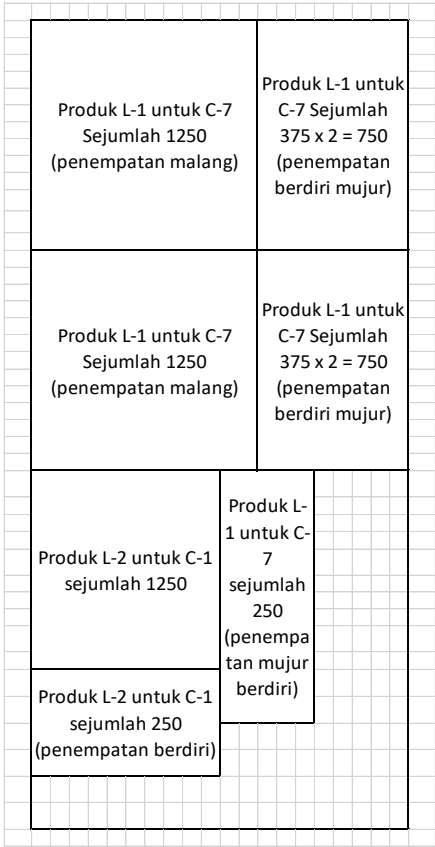
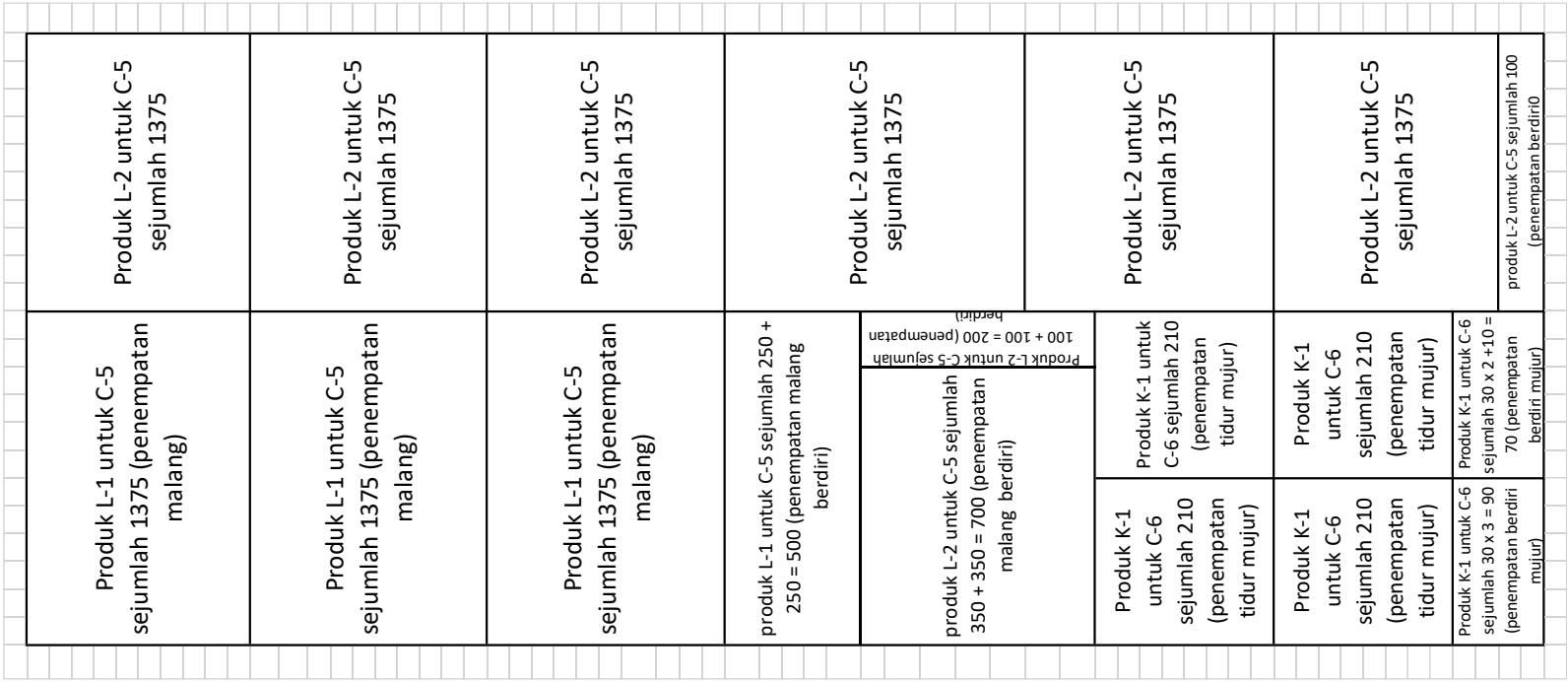


Skala 1: 100 mm

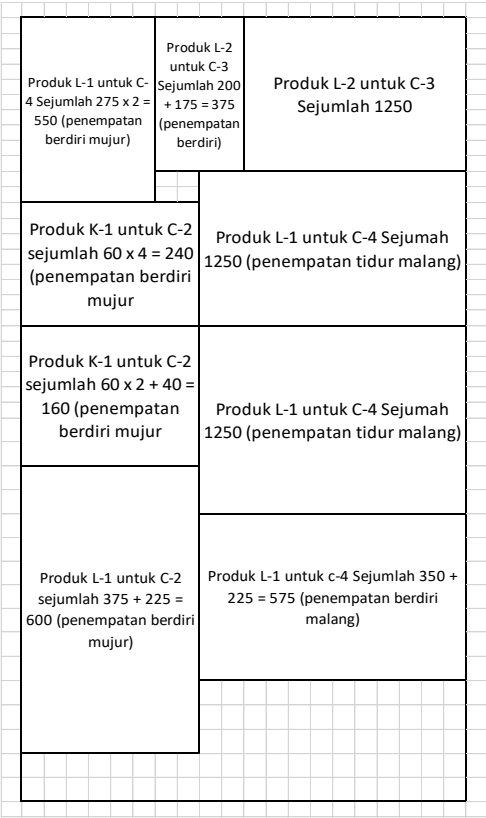
TRUK 3



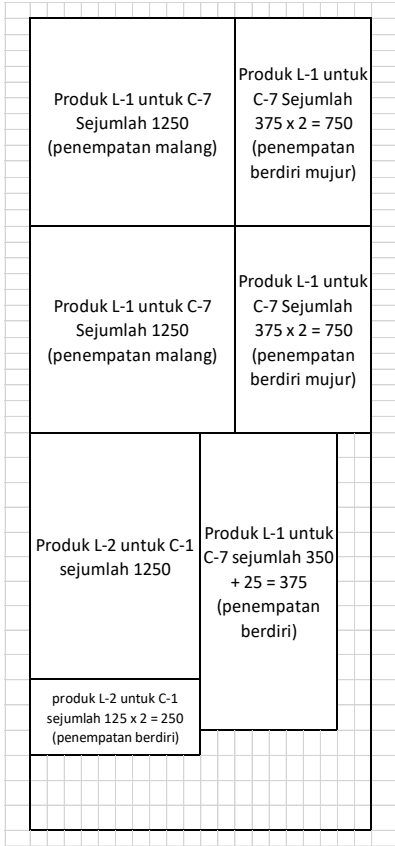
Skala 1: 100 mm

PERIODE 18

TRUK 1

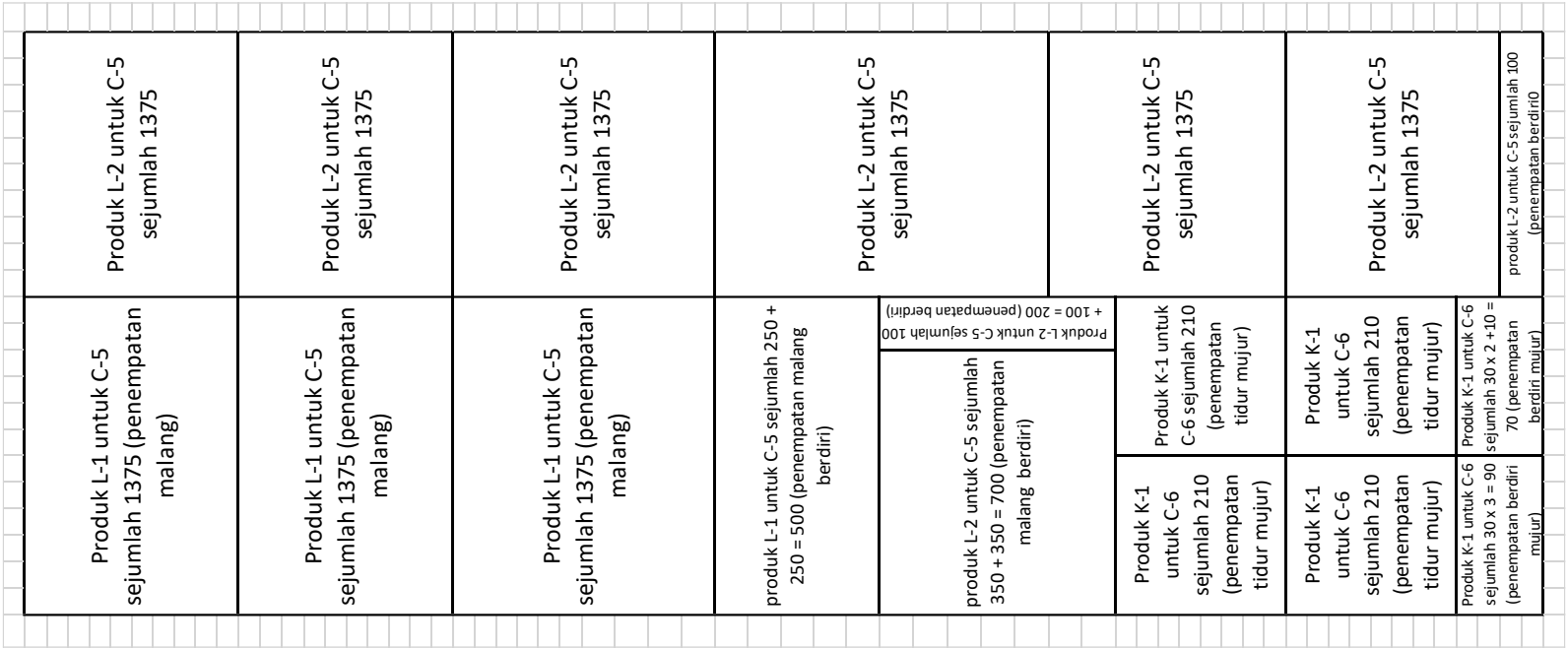


TRUK 2



Skala 1: 100 mm

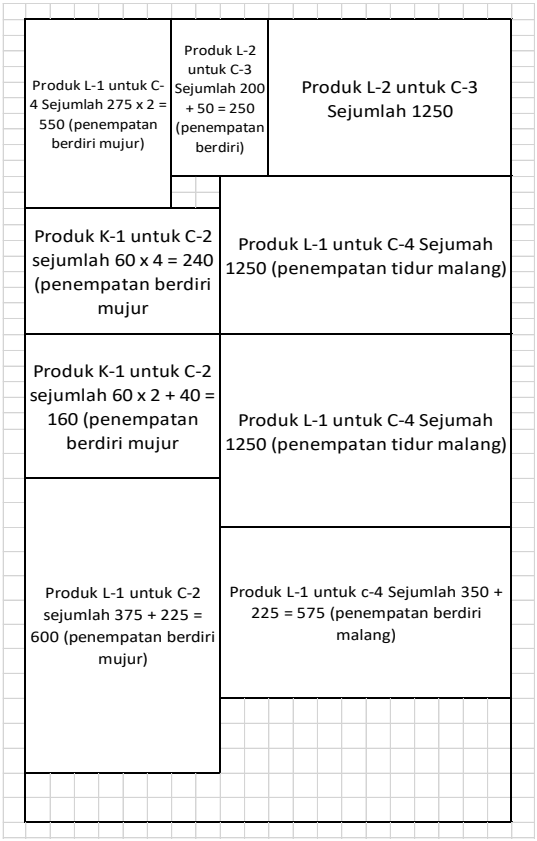
TRUK 3



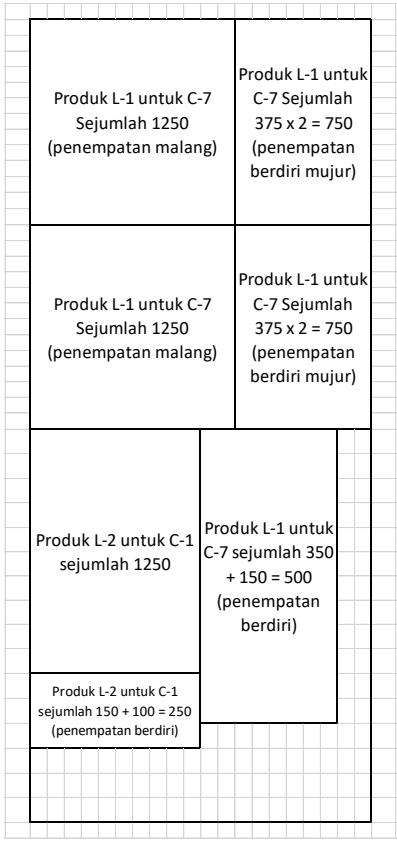
Skala 1: 100 mm

PERIODE 19

TRUK 1



TRUK 2



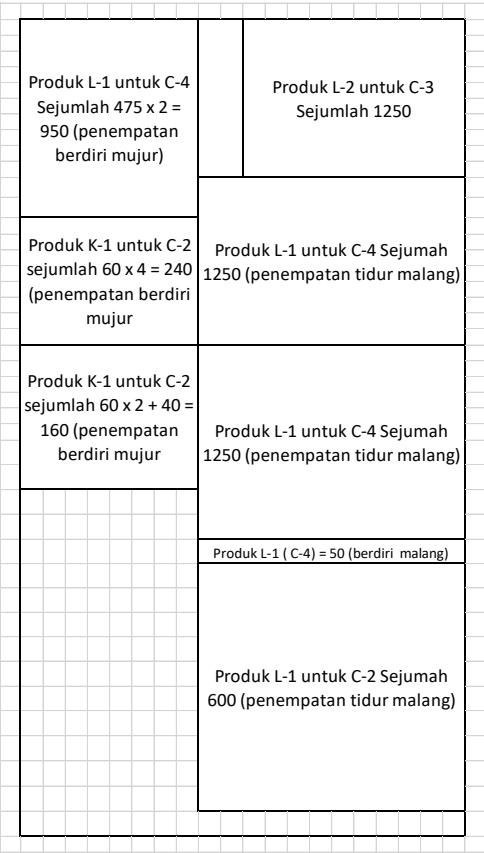
Skala 1: 100 mm

TRUK 3

Skala 1: 100 mm

PERIODE 20

TRUK 1



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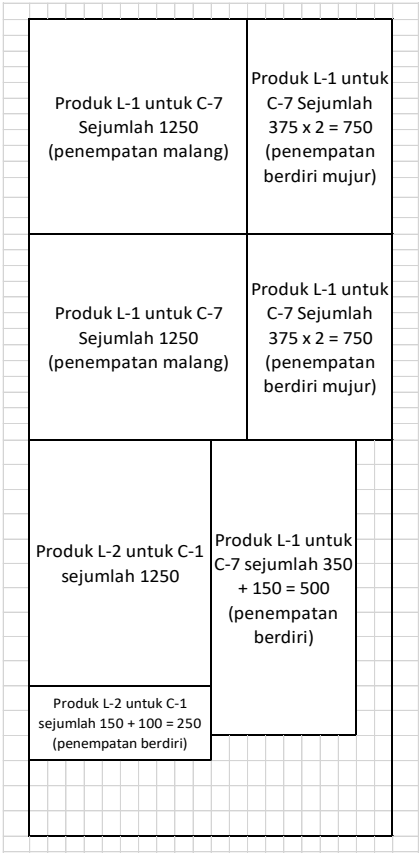


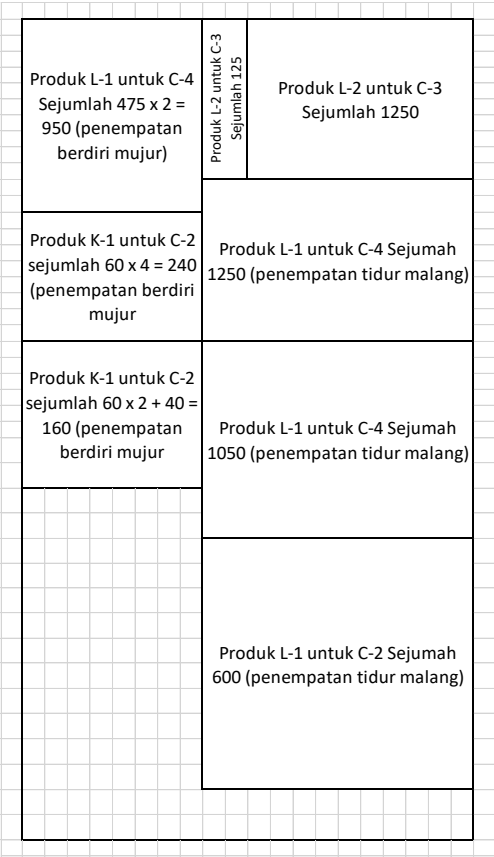
Skala 1: 100 mm

TRUK 3

Skala 1: 100 mm

PERIODE 21

TRUK 1



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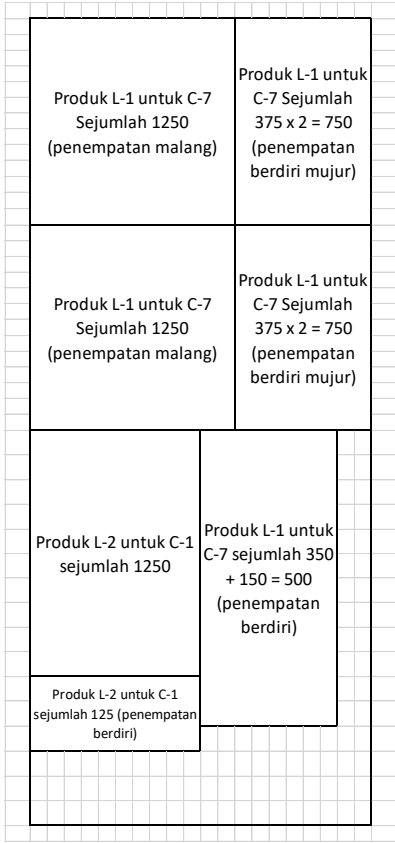

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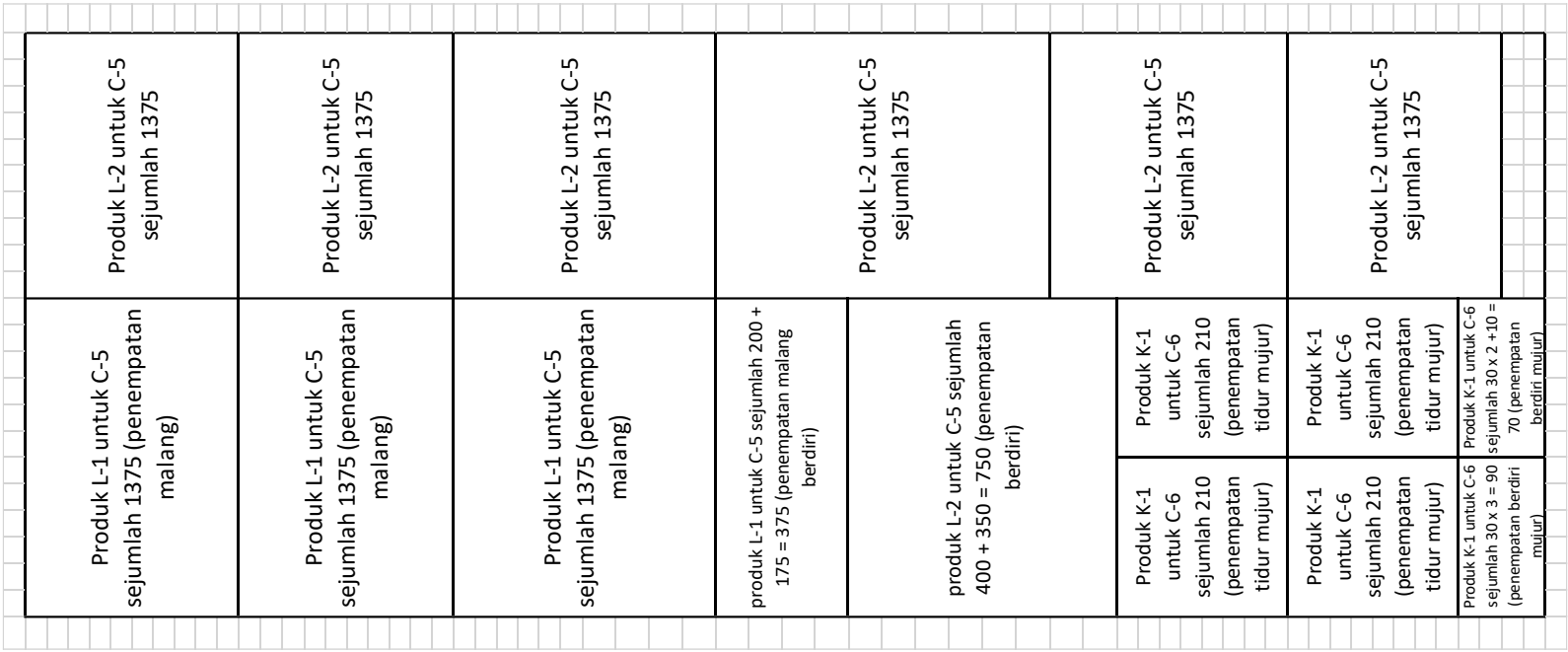
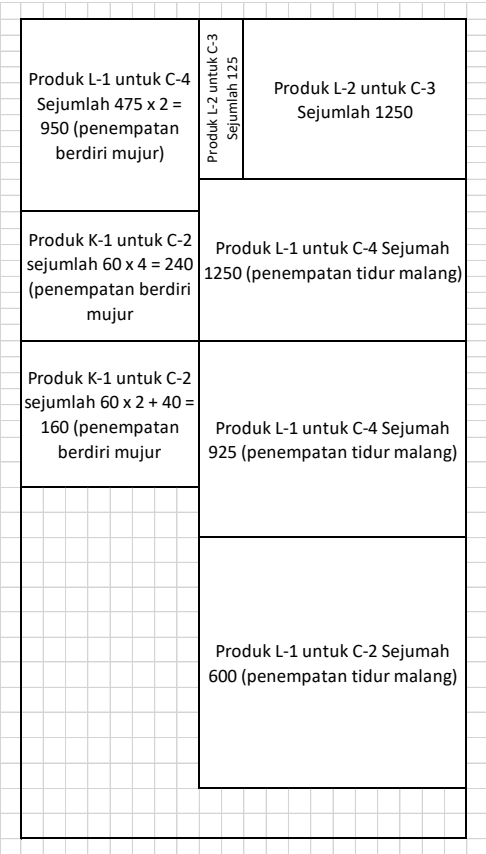
TRUK 3



Skala 1: 100 mm

PERIODE 22

TRUK 1



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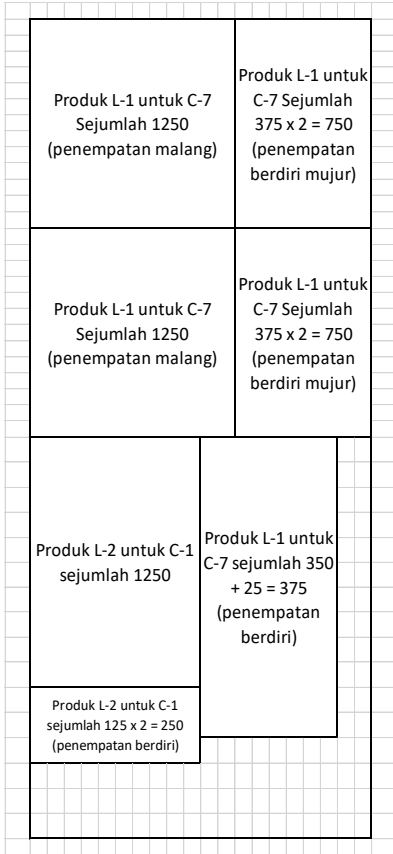
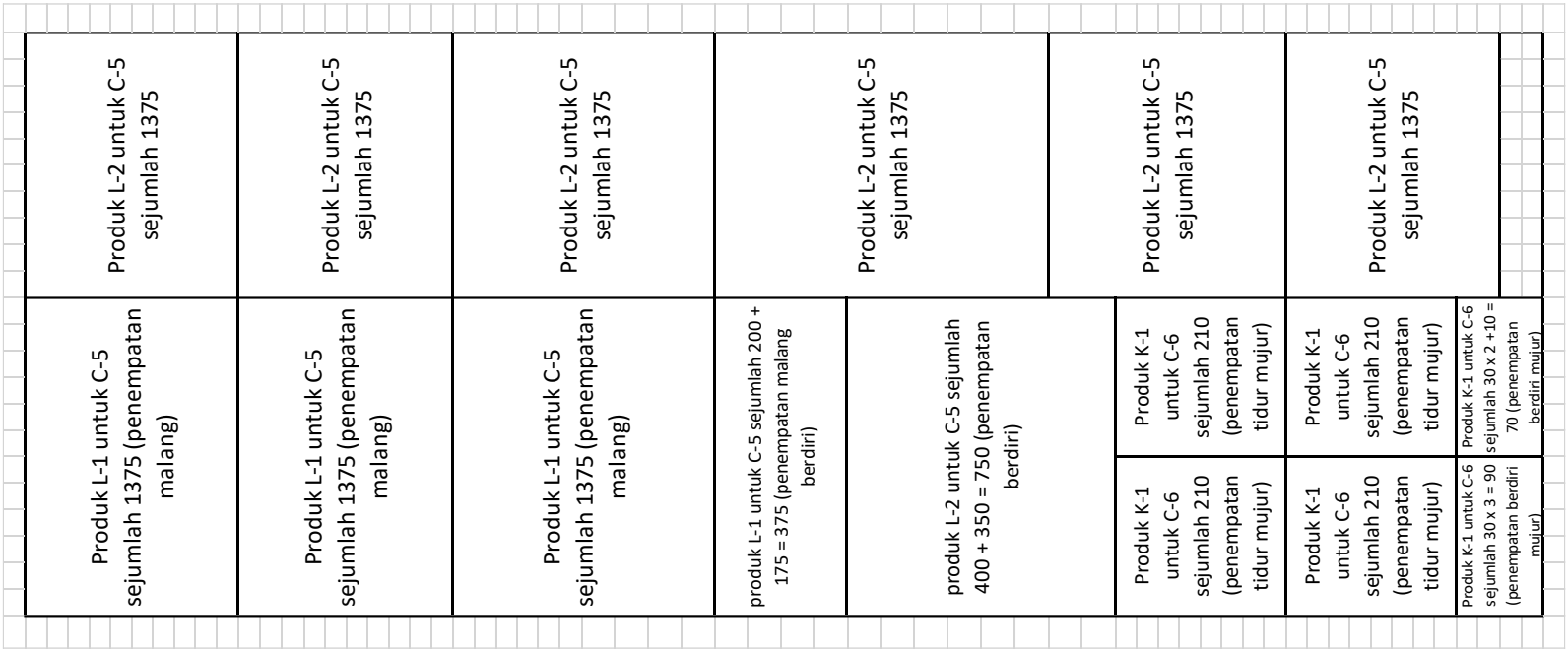


Skala 1: 100 mm

TRUK 3



Skala 1: 100 mm

Lampiran 4. Lembar Bimbingan

JURNAL BIMBINGAN TUGAS AKHIR

Nama : MOH. WAFA' HASAN MAAB

NBI : 1911410633

Judul Penelitian : Optimalisasi Vehicle Routing Problem dengan Pendekatan metode Clarke & Wright Saving Heuristic. Studi kasus (CV. Mitra Sejati Surabaya)

No	Hari, tanggal	Materi Bimbingan	Catatan Pembimbing	Paraf Pembimbing
1.	Senin, 5 Maret '18	Judul Proposal	- menambah referensi Penelitian terdahulu (Jurnal)	
2.	Senin, 12 Maret '18	Bab I & III	- menyesuaikan sistematika yang ada	
3.	Jumat, 16 Maret '18	Bab I, II, & III	- lengkapi bab 2 - Daftar Pustaka	
			- Tinjau Judul	
4.	Senin, 19 Maret '18	Bab I, II, III	Tinjau Penulisan daftar Pustaka dan distribusi	
		Daftar Pustaka	tinjauan Pustakanya	
5.	Senin, 26 Maret '18	Proposal lengkap	Flowchart	
6.	Selasa, 10 April '18	Presentasi (PPT)		
7.	Jumat, 18 Mei '18	Bab IV		
8.	Senin, 21 Mei '18	Bab IV	- Penulisan tabel	
9.	Senin, 28 Mei '18	Bab IV	- Gambar Diagram	
10.	Senin, 4 Mei '18	Bab IV		
11	Jumat, 8 Mei '18	Bab IV		
12.	Senin, 25 Juni 2018	~~Bab IV~~ lengkap	(ujian) Perbaiki abstrak	
		Laporan		
13	Senin, 25/6/2018	Laporan Akhir	Perbaikan saran, abstrak	

Lampiran 5. Surat Penelitian Perusahaan

CV. MITRA SEJATI SURABAYA
CORRUGATED CARTON
JL. MASTRIP WARUGUNUNG, 65
SURABAYA – INDONESIA

SURAT KETERANGAN PENELITIAN

Yang bertandatangan dibawah ini:

Nama : **Sukani Sopyan**

Jabatan : **Pemilik CV. Mitra Sejati Surabaya**

Menerangkan bahwa:

Nama : **Moh. Wafa' Husnu Maab**

NBI : **1411406339**

Asal : **UNTAG SURABAYA**

Telah melakukan penelitian di perusahaan kami dalam rangka Tugas Akhir dari mulai tanggal 15 November 2017 sampai dengan 15 April 2018.

Dengan demikian surat keterangan ini dibuat dengan benar untuk dipergunakan sebagaimana mestinya.

Surabaya, 12 Juni 2018

MITRA SEJATI MS SURABAYA

CV. MITRA SEJATI SURABAYA
(Sukani Sopyan)

BIOGRAFI

Moh. Wafa' Husnu Maab, lahir di kota Gresik 15 Oktober 1996 adalah mahasiswa sekaligus karyawan swasta di sebuah perusahaan pada bagian *warehouse*. Ia adalah mahasiswa dari Univesitas 17 Agustus 1945 Surabaya (UNTAG) dengan program studi teknik industri. Ia juga aktif di Unit Kegiatan Mahasiswa Forum Diskusi Mahasiswa Penalaran, Penelitian, dan Penerbitan Kampus (UKM FORDIMAPElAR) sehingga ia pernah dipecaya untuk menjadi ketua umum UKM FORDIMAPELAR pada periode 2016. Prestasi yang ia dapatkan dimuali dengan menjuari Lomba Karya Tulis Ilmiah pada forum penalaran se- Jawa Timur pada tahun 2015 dan 2016, selain itu juga pernah membawa nama Universitas dengan lolosnya sebah ide dalam Pogram Kreatifitas Mahasiswa (PKM) yang diselenggarakan oleh Direktorat Jendral Perguruan Tinggi dengan judul MNC (*Maintenance aNd Clean*) untuk meningkatkan kenyamanan penghuni kamar kos.

Selain itu ia aktif di eksternal kampus dengan mengikuti kursus dan pelatihan di kampung inggris, mengikuti sertifikasi profesi *operational logistic* di Akademi Teknik Keselamatan Penerbangan (ATKP) Surabaya, selain itu juga ia mengikuti pelatihan otomasi industri di Balai Latihan Kerja Dinas ketenagakerjaan provinsi Jawa Timur.

Surabaya,18 Juli 2018

Moh. Wafa' Husnu Maab