

Appendix 1 Current cost for warehousing before optimization

External warehouse cost = 47.328 EUR (thereof Warehouse cost = 3!

				Total c
Item	Space	Meas. unit	Price	cost
Warehouse space	4750	m2	5.50	€/m2/month
Outside area	40	m2	1.10	€/m2/month
Outside area	150	m2	1.10	€/m2/month
Energy				
Cleaning services				
Waste disposal				
Handling forklift cost				
Log. Operator + handler				
Shuttle service (overall for 2 drivers)				coef. 1,5
Cost for a shuttle for warehouse #1				
Cost for a shuttle for warehouse #2				
Total cost for service	4940			
Ext. warehouse #2	2000	m2	3.0	€/m2/month

Cost of other logistics areas within plant = 12.178 EUR

Supplier	Description	Specification
Company ABC	Large tent	20x60m
Company ABC	Outside area for WIP	concrete space
Company XYZ	Small tent 1	50x30x4m
Company XYZ	Small tent 2	15x20x4m
Total m2		

Grand Total cost = 67.859 EUR

5.539 EUR) (base for calculation)

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Total Cost	Comment
€ 26,125	Inside used area for 2200 pallets
€ 44	Empties + scrap
€ 165	Unloading / loading area
€ 2,106	Gas + electricity
€ 98	Cleaning 2 x week, 1,5 hour
€ 32	Monthly 1x1100L plastic, 1x1100L general waste + transport
€ 3,205	Hourly rate 310 czk + 50 czk FTL
€ 3,764	Hourly rate 290 czk
€ 13,336	used for a services from warehouse #1, and 15% for a services from warehouse #2.
€ 11,336	
€ 2,000	
€ 48,875	
€ 6,806	For a service parts (low running) + 806 eur (energy, waste disp., etc)

Space, m2	Cost, €
1280	5.30
2700	1.10
450	
300	
4730	Total cost for service

Cost/month
€ 6,784
€ 2,970
€ 1,390
€ 1,034
€ 12,178

Appendix 2 Cost for warehouse №1 and №2 (inc. transport services)

External warehouse No. 1, eur

Year	1	2	3	4	5	6
2022	x	x	x	x	x	x
2023	€ 44,578	€ 43,002	€ 41,547	€ 33,778	€ 32,803	€ 27,027

Driver No. 1 - transport services, czk

Year	1	2	3	4	5	6
2022	91,960 CZK	95,590 CZK	115,555 CZK	78,650 CZK	125,840 CZK	107,690 CZK
2023	359,975 CZK	256,520 CZK	243,790 CZK	208,337 CZK	218,356 CZK	197,496 CZK

External warehouse No. 2, eur

Year	1	2	3	4	5	6
2022	x	x	x	x	x	x
2023	167,222 CZK	197,774 CZK	481,615 CZK	397,400 CZK	426,222 CZK	405,011 CZK

7	8	9	10	11	12	Average
€ 12,597	€ 12,597	€ 12,597	€ 12,597	€ 12,597	€ 12,597	€ 12,597
€ 25,717	€ 25,773	€ 25,512	x	x	x	€ 33,304

7	8	9	10	11	12	Average, czk:
99,825 CZK	262,570 CZK	320,650 CZK	323,675 CZK	333,355 CZK	213,565 CZK	180,744 CZK
164,487 CZK	181,475 CZK	187,792 CZK	164,487 CZK	164,487 CZK	x	213,382 CZK

7	8	9	10	11	12	Average, czk:
x	x	x	x	163,350 CZK	163,350 CZK	163,350 CZK
417,280 CZK	406,693 CZK	404,043 CZK	x	x	x	367,029 CZK

Total per year
€ 75,582
€ 299,737

Average, eur:	Total per year
€ 7,531	€ 90,372
€ 8,891	€ 97,800

Average, eur:	Total per year
€ 6,806	€ 13,613
€ 15,293	€ 137,636

Appendix 3 New cost for warehousing after optimization

New warehouse cost = 19 343 EUR (included external warehouse

Supplier	Description	Specification	m2
New Warehouse	Warehouse for components	Narrow aisle warehouse	1260
New Warehouse	side area around warehouse	Concrete space	450
New Warehouse	Connecting tunnel	supply parts to production	152
	2 x containers	receiving / entrance	6x6 / 3x3
	EPS		
	Narrow aisle stacker	1+1	
Ext. warehouse #2	for service parts (low running)		2000
Shuttle service	1 driver, 2 days/week	125 eur/trip, 8 trips/month	8
		Total monthly fee	

Cost of other logistics areas within plant = 11. 118 € (reduced 1 sr

Supplier	Description	Specification
Company ABC	Large tent	20x60m
Company ABC	Outside area for WIP	concrete space
Company XYZ	Small tent 1	15x20x4m
		Total, m2

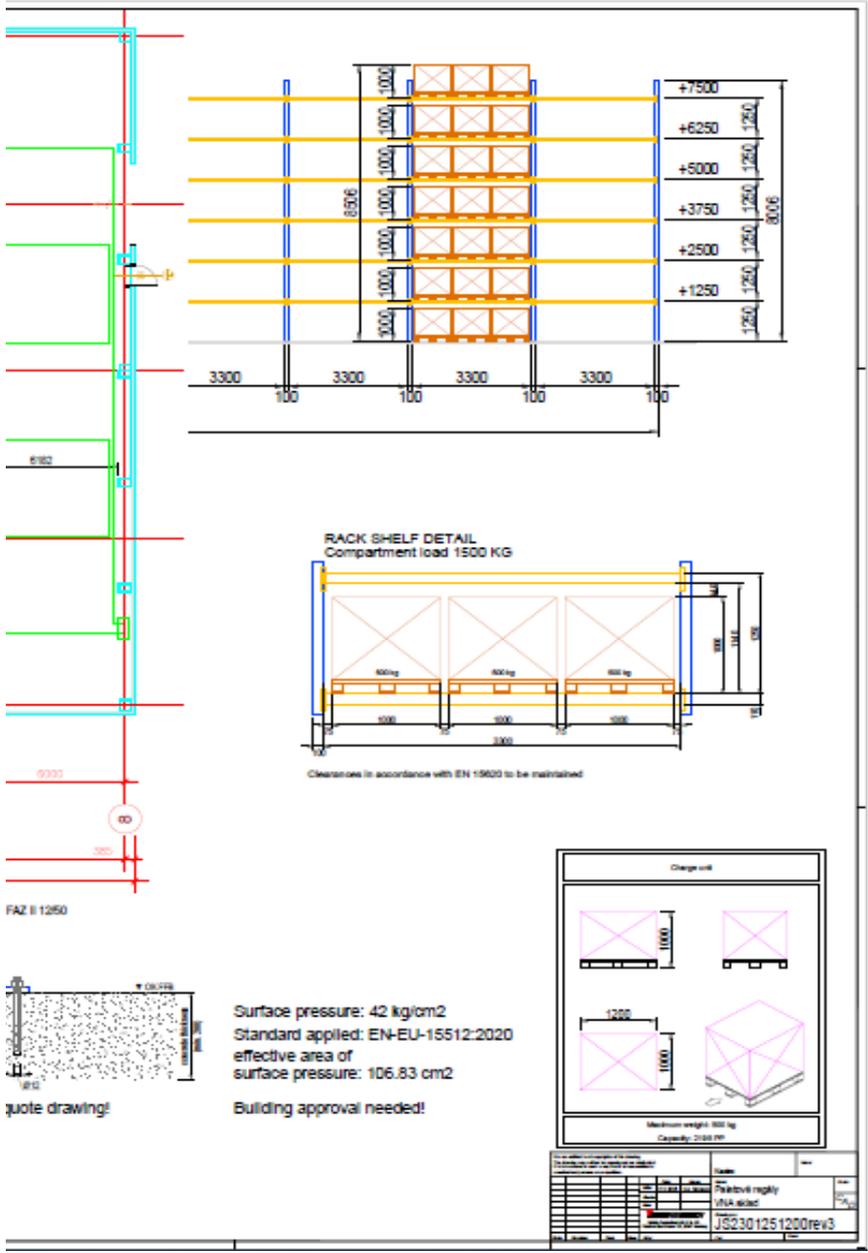
Grand Total cost = 30 461 EUR

#2 for service parts 2000m2)

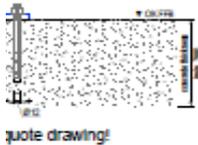
cost	Invoice/month
4.99	€ 6,287
1.15	€ 518
1.95	€ 296
	€ 385
	€ 211
lease	€ 3,840
3	€ 6,806
€ 125	€ 1,000
	€ 19,343

Wall tent from plant area)

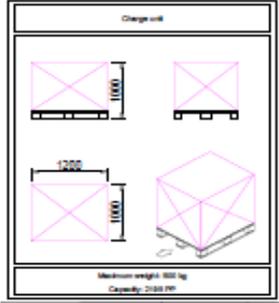
	Space, m2	Cost, €	Cost/month
	1280	5.30	€ 6,784
	3000	1.10	€ 3,300
	450		€ 1,034
Total m2	4730	Total cost for service	€ 11,118



FAZ II 1250



Surface pressure: 42 kg/cm²
 Standard applied: EN-EU-15512:2020
 effective area of surface pressure: 106.83 cm²
 Building approval needed!



Revision		Author	Check
1	01	FAZ/IV/egly	FAZ/IV/egly
2	02	FAZ/IV/egly	FAZ/IV/egly
3	03	FAZ/IV/egly	FAZ/IV/egly
4	04	FAZ/IV/egly	FAZ/IV/egly
5	05	FAZ/IV/egly	FAZ/IV/egly
6	06	FAZ/IV/egly	FAZ/IV/egly
7	07	FAZ/IV/egly	FAZ/IV/egly
8	08	FAZ/IV/egly	FAZ/IV/egly
9	09	FAZ/IV/egly	FAZ/IV/egly
10	10	FAZ/IV/egly	FAZ/IV/egly

082301251200rev3

Cost
€ 125
€ 330
€ 125
€ 580

Cost
€ 63
€ 104
€ 167

9	10	11	12	Total per year
€ 747	€ 167	€ 167	€ 167	€ 1,247
€ 167	€ 167	€ 167	€ 167	€ 2,000.7
€ 167	€ 167	€ 167	€ 167	€ 2,000.7