Czacade

- Gravity 12.6 BLG
- ABV **5.1** %
- IBU 27
- SRM 3.7
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 15 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp 62 C, Time 10 min
 Temp 45 C, Time 72 min
- Temp **75** C, Time **10** min

Mash step by step

- Heat up 15 liter(s) of strike water to 49.2C
- Add grains
- Keep mash 72 min at 45C
- Keep mash 10 min at 62C
- Keep mash 10 min at 75C
- Sparge using 15.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (80%)	81 %	4
Grain	Pale Malt (2 Row) US	1 kg (20%)	79 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	40 g	30 min	7 %
Aroma (end of boil)	Cascade	10 g	5 min	7 %
Aroma (end of boil)	Lublin (Lubelski)	20 g	5 min	4 %
Dry Hop	Cascade	10 g	3 day(s)	7 %