Ciemne CZ

- Gravity 11.9 BLG
- ABV ----
- IBU 29
- SRM **24.6**
- Style Dark American Lager

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 5 %/h
- Boil size 23.1 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 2.7 liter(s) / kg
- Mash size 11.1 liter(s)
- Total mash volume 15.2 liter(s)

Steps

- Temp 54 C, Time 20 min
 Temp 63 C, Time 30 min
 Temp 72 C, Time 20 min
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 11.1 liter(s) of strike water to 60.3C
- Add grains
- Keep mash 20 min at 54C
- Keep mash 30 min at 63C
- Keep mash 20 min at 72C
- Keep mash 5 min at 78C
- Sparge using 16.1 liter(s) of 76C water or to achieve 23.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2.2 kg <i>(53.7%)</i>	81 %	4
Grain	Monachijski	1.4 kg <i>(34.1%)</i>	80 %	16
Grain	Black (Patent) Malt	0.2 kg <i>(4.9%)</i>	55 %	985
Grain	Karmelowy Czerwony	0.3 kg (7.3%)	75 %	59

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	15 g	15 min	4.5 %
Boil	Premiant	25 g	60 min	8 %