Full Aroma Hops, Carlberg

- · Gravity 11 BLG
- ABV ---
- IBU **32**
- SRM **5.5**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 14 liter(s)
- Total mash volume 18 liter(s)

Steps

- Temp 62 C, Time 10 min
 Temp 72 C, Time 45 min
- Temp 76 C, Time 10 min

Mash step by step

- Heat up 14 liter(s) of strike water to 68C
- Add grains
- Keep mash 10 min at 62C
- Keep mash 45 min at 72C
- Keep mash 10 min at 76C
- Sparge using 16.4 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4 kg (100%)	80 %	7

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertauer comet	25 g	60 min	7 %
Boil	Lublin (Lubelski)	35 g	15 min	3.5 %
Aroma (end of boil)	Lublin (Lubelski)	15 g	5 min	3.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	