IUMA

- Gravity 10 BLG
- ABV ----
- IBU **30**
- SRM **6.2**
- Style Standard/Ordinary Bitter

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12.9 liter(s)
- Total mash volume 17.2 liter(s)

Steps

- Temp **68 C**, Time **60 min** Temp **72 C**, Time **20 min**
- Temp 77 C, Time 10 min

Mash step by step

- Heat up 12.9 liter(s) of strike water to 76C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 20 min at 72C
- Keep mash 10 min at 77C
- Sparge using 23.1 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3 kg (69.8%)	79 %	6
Grain	Strzegom Monachijski typ II	1 kg <i>(23.3%)</i>	79 %	22
Grain	Caramel Pils Bestmallz	0.3 kg (7%)	75 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnat	15 g	60 min	11.2 %
Aroma (end of boil)	Magnat	10 g	15 min	11.2 %
Aroma (end of boil)	lunga	10 g	15 min	11.6 %
Aroma (end of boil)	Magnat	15 g	0 min	11.2 %
Aroma (end of boil)	lunga	15 g	0 min	11.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Liberty Bell M36 Mangrove Jack's	Ale	Dry	10 g	Mangrove Jascks

Extras

Туре	Name	Amount	Use for	Time
Fining	Mech Irlandzki	5 g	Boil	15 min