Esb

- Gravity 12.1 BLG
- ABV **4.9** %
- IBU 24
- SRM **8**
- Style Extra Special/Strong Bitter (English Pale Ale)

Batch size

- Expected quantity of finished beer 50 liter(s)
- Trub loss 5 %
- Size with trub loss 52.5 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 63.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 32.4 liter(s)
- Total mash volume 43.2 liter(s)

Steps

- Temp 67 C, Time 40 min
 Temp 74 C, Time 20 min

Mash step by step

- Heat up 32.4 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 40 min at 67C
- Keep mash 20 min at 74C
- Sparge using 41.7 liter(s) of 76C water or to achieve 63.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Malt (2 Row) UK	10 kg (88.5%)	83 %	6
Grain	Briess - Caracrystal	0.8 kg (7.1%)	78 %	150
Sugar	Muscovado jasny	0.5 kg <i>(4.4%)</i>	100 %	28

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	60 g	70 min	5.1 %
Boil	East Kent Goldings	30 g	7 min	5.1 %
Boil	Marynka	20 g	60 min	8.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
WLP002 - English Ale Yeast	Ale	Liquid	250 ml	White Labs
Starter 2 litry				

Extras

Туре	Name	Amount	Use for	Time
Water Agent	Gips	4 g	Mash	65 min