

# ESB 11-2023

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- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **45**
- SRM **8.6**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

## Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **32.8 liter(s)**

## Mash information

- Mash efficiency **87 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **20.3 liter(s)**
- Total mash volume **27 liter(s)**

## Fermentables

| Type  | Name                | Amount         | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński | 5 kg (74.1%)   | 80 %  | 4   |
| Grain | Strzegom Karmel 150 | 0.5 kg (7.4%)  | 75 %  | 150 |
| Grain | Cookie              | 0.25 kg (3.7%) | 72 %  | 50  |
| Grain | Pszeniczny          | 1 kg (14.8%)   | 85 %  | 4   |

## Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Perle   | 50 g   | 60 min | 6.5 %      |
| Boil    | Fuggles | 50 g   | 30 min | 6 %        |
| Boil    | Fuggles | 50 g   | 2 min  | 6 %        |

## Extras

| Type   | Name     | Amount | Use for | Time   |
|--------|----------|--------|---------|--------|
| Fining | whirlfoc | 2 g    | Boil    | 15 min |